

PCB SAMPLE DATA SUMMARY PACKAGE FOR:

ANCHOR QUANTITATIVE ENVIRONMENTAL ANALYSIS, LLC  
305 WEST GRAND AVENUE  
MONTVALE, NEW JERSEY 07645

TOTAL PCB: GREEN BAY METHOD (NE207\_03.DOC)  
PARTICULATE ORGANIC CARBON (NE128\_06)  
DISSOLVED TOTAL ORGANIC CARBON (NE128\_06)

DATE: May 30, 2009-B

LRF: 09050311

PROVIDED BY : NORTHEAST ANALYTICAL, INC.  
2190 TECHNOLOGY DRIVE  
SCHENECTADY, NEW YORK 12308  
518-346-4592



**TABLE OF CONTENTS**

<u>SECTION</u>	<u>PAGE</u>
CASE NARRATIVE .....	4
SAMPLE CHAIN OF CUSTODY .....	7
INTERNAL SAMPLE TRACKING RECORD .....	9
SURROGATE RECOVERY SUMMARY .....	14
LABORATORY CONTROL SPIKE SUMMARY .....	31
METHOD BLANK SUMMARY .....	34
SAMPLE ANALYSIS DATA .....	37
SAMPLE GC INJECTION LOG (GC-16) .....	124
SAMPLE GC INJECTION LOG (GC-24) .....	128
STANDARDS SUMMARY TABLES (GC-16) .....	134
STANDARDS SUMMARY TABLES (GC-24) .....	179
CALIBRATION COMPONENT SUMMARY TABLES (GC-16) .....	228
CALIBRATION COMPONENT SUMMARY TABLES (GC-24) .....	232
STANDARDS RAW DATA (GC-16) .....	236
STANDARDS RAW DATA (GC-24) .....	259
QC SAMPLE RAW DATA .....	304
MDL STUDIES .....	344
PARTICULATE ORGANIC CARBON .....	351
DISSOLVED TOTAL ORGANIC CARBON .....	363

# Case Narrative

June 05, 2009

## CASE NARRATIVE

This data package (NEA SDG ID: 09050311) consists of 6 water samples received on 5/29/2009. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AM06245	WFF-FDBL-090527-BT001	5/27/2009 14:52
AM06246	WFF-LOC5-090527-BT003	5/27/2009 13:06
AM06247	WFF-SCHU-090527-BT003	5/27/2009 13:08
AM06248	WFF-STWA-090527-BT001	5/27/2009 14:51
AM06249	WFF-THIS-090527-BT001	5/27/2009 10:52
AM06250	WFF-TIDA-090527-BT003	5/27/2009 12:17

### Sample Delivery and Receipt Conditions

- (1.) Northeast Analytical provided sample pickup service on 5/29/2009.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) 2 Four Liter bottles were received for sample WFF-FDBL-090527-BT001 (NEA ID: AM06245). The electronic chain of custody listed that sample as a 1 Liter sample, also the label on one of the bottles indicated Total Suspended Solids as the test. Chris Yates of AQEA was contacted and he said to combine the 2 4-Liter bottles and use for an 8 Liter CSGB analysis.
- (4.) The following cooler temperature was recorded at sample receipt: 2.8 degrees Celsius. Please see Chain of Custody for details.

### Total PCBs by Green Bay Method (8L)

Analysis for Total PCBs was performed by NEA SOP NE207\_03. Samples were extracted by USEPA SW-846 Method 3535 Solid Phase Extraction. Eight-liter water samples were extracted by NEA SOP NE208\_03. The following technical and administrative items were noted for the analysis:

- (1.) Note: Hudson River Bias Correction applied (v09/23/2004) to GC Column peaks 5, 8, and 14 (which are comprised of congeners IUPAC 4 and 10; IUPAC 5 and 8; and IUPAC 15 and 18, respectively). Please see SOP NE207\_03 for details.
- (2.) Peak 10, Peak 14, Peak 15, Peak 17, Peak 21, Peak 22, Peak 23, Peak 29, Peak 49, Peak 56, Peak 57, and Peak 7 were observed in the Method Blank sample. All associated positive sample concentration results have been flagged (B) to denote the observed contamination.

### Total PCBs by Green Bay Method (1L)

Analysis for Total PCBs was performed by NEA SOP NE207\_03. Samples were extracted by USEPA SW-846 Method 3535 Solid Phase Extraction. One-liter water samples were extracted by NEA SOP NE178\_03. The following technical and administrative items were noted for the analysis:

- (1.) Note: Hudson River Bias Correction applied (v09/23/2004) to GC Column peaks 5, 8, and 14 (which are comprised of congeners IUPAC 4 and 10; IUPAC 5 and 8; and IUPAC 15 and 18, respectively). Please see SOP NE207\_03 for details.

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(2.) Peak 15, Peak 21, Peak 22, Peak 27, Peak 52, and Peak 57 were observed in the Method Blank sample. All associated positive sample concentration results have been flagged (B) to denote the observed contamination.

(3.) All 1 Liter samples and associated QC were rerun due to calibration check standards failed on original run. Reanalyzed samples are in this data package with a RR1 suffix, diluted samples have a DL2 suffix.

(4.) Sample(s) AM06246, AM06247, AM06249, and AM06250 required additional analysis at a dilution for Peak 2, Peak 5, Peak 10, and Peak 16 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a NEA ID suffix of DL2. The concentration for Peak 2, Peak 5, Peak 10, and Peak 16 are included in the original analysis to provide the correct PCB total concentration.

#### Particulate Organic Carbon

Analysis for Particulate Organic Carbon was performed by NEA SOP NE128\_06. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

#### Dissolved Total Organic Carbon

Analysis for Dissolved Total Organic Carbon was performed by NEA SOP NE128\_06. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

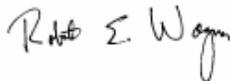
#### Qualifier Summary

(1.) B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL.

(2.) J-Denotes concentration result greater than the MDL but less than the PQL.

(3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



Robert E. Wagner  
Laboratory Director & Founder

# Sample Chain Of Custody



185 West Grand Avenue - Montvale, NJ 07645 Ph: 201-936-9890

Client: General Electric Company

### ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC090527-BNEA-01

Sample Custodian: DR

Lab: NEA

COC Sample Number	Field Sample ID	QA/QC	MS	MSD	LD	Matrix **	Date Collected	Time Collected	Media*	# Containers	4degC	4degC	4degC						
											NE128_DDC	NE128_OSP	NE207_O3						
001	WFF-FDBL-090527-BT001	FDBL	N	N	N	W	05/27/2009	14:52	W	JER 2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
002	WFF-LOC5-090527-BT003	ENV	N	N	N	W	05/27/2009	13:06	W	1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
003	WFF-SCHU-090527-BT003	ENV	N	N	N	W	05/27/2009	13:08	W	1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
004	WFF-STWA-090527-BT001	ENV	N	N	N	W	05/27/2009	14:51	W	1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
005	WFF-THIS-090527-BT001	ENV	N	N	N	W	05/27/2009	10:52	W	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
006	WFF-TIDA-090527-BT003	ENV	N	N	N	W	05/27/2009	12:17	W	1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					

AM06245  
AM06246  
AM06247  
AM06248  
AM06249  
AM06250

Comments: cooler temp = 2.8°C

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>				
Print Name: J. M. Ryan	Print Name: M. Conway	Print Name: M. Conway	Print Name: K. Doherty	Print Name: <i>[Signature]</i>	Print Name: <i>[Signature]</i>
Company: Anchor QEA	Company: NEA	Company: NEA	Company: NEA	Company: NEA	Company: NEA
Date/Time: 5/29/09 17:00	Date/Time: 5/29/09 17:30	Date/Time: 5/29/09 18:25	Date/Time: 5/29/09 18:25	Date/Time: <i>[Signature]</i>	Date/Time: <i>[Signature]</i>

Date Printed: 5/28/2009

\* S= SEDIMENT, W= WATER \*\* T = Total, D = Dissolved, R = Residue  
\*\*\* Air Tight Container; preserved at lab if not analyzed within 48 hrs.

Page 1 of 1

# Internal Sample Tracking Record

AQUEOUS EXTRACTION LOG



Prep Date: 05/29/2009

Batch ID: 8024

Initial for required Clean Up Steps

	Prep ID	NEA Sample ID	Alt Sample ID	Client	Extraction Type	Matrix	Sample Amount (g or mL)	TS %	Final Ext. Vol (mL)	Date Ext (MM/DD)	Extract Time On	Extract Time Off	Date Conc (MM/DD)	Initial for required Clean Up Steps			Cell / Unit #	Job	pH	Comments	
														Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)					Date Hg Shake (MM/DD)
1	78278	CEBLK-53	AM06245B	GE	SPE-8L	Water	8000	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30	L1	E CON8L	5	
2	78279	LCS-53	AM06245L	GE	SPE-8L	Water	8000	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30	L2	E CON8L	5	
3	78277	09050311-01	AM06245	GE	SPE-8L	Water	8460	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30		E CON8L	5	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	050815	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane	CY224	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (SPE only)	090304F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 0.05PPM in Acetone	041409B27P21A	1000	0.05	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone	CY140	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.02ppm in Acetone	041709B27P31	500	0.02	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane	CY891	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only) current	090507A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk (current)	G46N40	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol	49023	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SPIKED BY: Heather Gansky

WITNESSED BY: Tara Snay

SIGNATURE:

*Hgansky*

SIGNATURE:

*T Snay*

# CONGENER AQUEOUS SCREEN SHEET

Batch ID: 8024

Prepared by: Heather Gansky

NEA Sample ID	Alt Sample ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Dilution Sequence	Final Multiplier
CEBLK-53	AM06245B	Water	05/29/09	8000	5	NA	NA	NA	5%
LCS-53	AM06245L	Water	05/29/09	8000	5	NA	NA	NA	5%
09050311-01	AM06245	Water	05/29/09	8460	5	NA	NA	NA	5%

*Handwritten signature/initials*

Solvent, Surrogate, Spike, and Acid Information      B=Blank, L=Lab Control Spike, LD=Lab Control Spike Duplicate, S=Sample, D=Duplicate, M=Matrix Spike, K=Matrix Spike Duplicate

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	050815	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane	CY224	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (SPE only)	090304F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 0.05PPM in Acetone	041409B27P21A	1000	0.05	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone	CY140	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.02ppm in Acetone	041709B27P31	500	0.02	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane	CY891	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only) current	090507A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk (current)	G46N40	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol	49023	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS: \_\_\_\_\_

AQUEOUS EXTRACTION LOG



Prep Date: 05/29/2009

Batch ID: 8023

Initial for required Clean Up Steps

	Prep ID	NEA Sample ID	Alt Sample ID	Client	Extraction Type	Matrix	Sample Amount (g or mL)	TS %	Final Ext. Vol (mL)	Date Ext (MM/DD)	Extract Time On	Extract Time Off	Date Conc (MM/DD)	Initial for required Clean Up Steps			Cell / Unit #	Job	pH	Comments	
														Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)					Date Hg Shake (MM/DD)
1	78274	CEBLK-52	AM06270B	GE	SPE-1L	Water	1000	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30		E CON1L	5	
2	78275	LCS-52	AM06270L	GE	SPE-1L	Water	1000	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30		E CON1L	5	
10	78269	09050311-02	AM06246	GE	SPE-1L	Water	1020	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30	L4	E CON1L	5	
11	78270	09050311-03	AM06247	GE	SPE-1L	Water	980	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30	L5	E CON1L	5	
12	78271	09050311-04	AM06248	GE	SPE-1L	Water	1060	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30	L6	E CON1L	5	
13	78272	09050311-05	AM06249	GE	SPE-1L	Water	1000	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30	L7	E CON1L	5	
14	78273	09050311-06	AM06250	GE	SPE-1L	Water	1000	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30	L8	E CON1L	5	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	050815	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane	CY224	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (SPE only)	090304F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone	041409B27P21C	200	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone	042309B27P38A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane	CY891	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only) current	090507A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk (current)	G46N40	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol	49023	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone	CZ366	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SPIKED BY: Heather Gansky

WITNESSED BY: Tara Snay

SIGNATURE: *Hgansky*

SIGNATURE: *T Snay*

# CONGENER AQUEOUS SCREEN SHEET

Batch ID: 8023

Prepared by: Heather Gansky

NEA Sample ID	Alt Sample ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Dilution Sequence	Final Multiplier
CEBLK-52	AM06270B	Water	05/29/09	1000	5	NA		N/A	5x
LCS-52	AM06270L	Water	05/29/09	1000	5	NA		N/A	5x
09050311-02	AM06246	Water	05/29/09	1020	5	NA		N/A / 0.1-1	5x / 50x
09050311-03	AM06247	Water	05/29/09	980	5	NA		N/A / 0.1-1	5x / 50x
09050311-04	AM06248	Water	05/29/09	1060	5	NA			5x
09050311-05	AM06249	Water	05/29/09	1000	5	NA		N/A / 0.1-1	5x / 50x
09050311-06	AM06250	Water	05/29/09	1000	5	NA		N/A / 0.1-1	5x / 50x

Solvent, Surrogate, Spike, and Acid Information

B=Blank, L=Lab Control Spike, LD=Lab Control Spike Duplicate, S=Sample, D=Duplicate, M=Matrix Spike, K=Matrix Spike Duplicate

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	050815	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane	CY224	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (SPE only)	090304F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone	041409B27P21C	200	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone	042309B27P38A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane	CY891	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only) current	090507A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk (current)	G46N40	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol	49023	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone	CZ366	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*JG* 6/3/09

COMMENTS: \_\_\_\_\_

# Surrogate % Recovery Summary

## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Lab Name: Northeast Analytical, Inc.

SDG No: 09050311

ELAP ID No: 11078

Init. Calib. Date(s): 5/6/2009,5/7/2009,5/29/2009

GC Column (1): Agilent DB-1; 30 meter; 0.25 micron phase thickness

Instrument ID: GC16

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS: IUPAC 207: <u>40.99</u>							
	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)
01	ICAL 6.25 ng/mL	ICAL0506A	GC16-664-3	05/06/2009 19:03:04			
02	ICAL 12.5 ng/mL	ICAL0506B	GC16-664-4	05/06/2009 20:11:05			
03	ICAL 125 ng/mL	ICAL0506C	GC16-664-5	05/06/2009 21:18:53			
04	ICAL 314 ng/mL	ICAL0506D	GC16-664-6	05/06/2009 22:26:40			
05	ICAL 627 ng/mL	ICAL0506E	GC16-664-7	05/06/2009 23:34:24			
06	SUP CONG STD 200/5 ng/mL	SC0506A	GC16-664-9	05/07/2009 01:49:45			
07	Surr Std (207) 2.0 ng/mL	SS0506A	GC16-664-10	05/07/2009 02:57:27			
08	Surr Std (207) 20.0 ng/mL	SS0506B	GC16-664-11	05/07/2009 04:05:12			
09	TCMX/DCBP	090529B05	GC16-664-14	05/29/2009 11:15:49			
10	CCC Std 122 ng/mL	CCCS0530C	GC16-691-12	05/30/2009 21:03:58			
11	CEBLK-53(METHOD BLANK)	AM06245B	GC16-691-13	05/30/2009 22:11:27	40.97	-0.02	94.2
12	LCS-53(LAB CONTROL SPIKE)	AM06245L	GC16-691-14	05/30/2009 23:18:49	40.97	-0.02	97.0
13	WFF-FDBL-090527-BT001	AM06245	GC16-691-15	05/31/2009 00:26:08	40.97	-0.02	102
14	CCC Std 122 ng/mL	CCCS0530D	GC16-691-18	05/31/2009 03:47:46			

## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Lab Name: Northeast Analytical, Inc.

SDG No: 09050311

ELAP ID No: 11078

Init. Calib. Date(s): 5/20/2009

GC Column (1): PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.2

Instrument ID: GC24

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS: IUPAC 207: <u>39.77</u>							
	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)
01	ICAL 6.25 ng/mL	ICAL0519A	GC24-62-3	05/20/2009 03:01:51			
02	ICAL 12.5 ng/mL	ICAL0519B	GC24-62-4	05/20/2009 04:07:16			
03	ICAL 125 ng/mL	ICAL0519C	GC24-62-5	05/20/2009 05:12:42			
04	ICAL 314 ng/mL	ICAL0519D	GC24-62-6	05/20/2009 06:18:07			
05	ICAL 627 ng/mL	ICAL0519E	GC24-62-7	05/20/2009 07:23:30			
06	SUP CONG STD 200/5 ng/mL	SC0519A	GC24-62-9	05/20/2009 09:34:29			
07	Surr Std (207) 2.0 ng/mL	SS0519A	GC24-62-10	05/20/2009 10:39:55			
08	Surr Std (207) 20.0 ng/mL	SS0519B	GC24-62-11	05/20/2009 11:45:24			
09	HEXANE BLANK	090531B01	GC24-73-1	05/31/2009 09:17:05			
10	CCC Std 122 ng/mL	CCCS0531A	GC24-73-2	05/31/2009 10:22:41			
11	CEBLK-52(METHOD BLANK)	AM06270BRR1	GC24-73-7	05/31/2009 16:06:28	39.77	0.00	84.8
12	LCS-52(LAB CONTROL SPIKE)	AM06270LRR1	GC24-73-8	05/31/2009 17:12:09	39.77	0.00	84.4
13	CCC Std 122 ng/mL	CCCS0531B	GC24-73-12	05/31/2009 21:34:42			
14	CCC Std 122 ng/mL	CCCS0601B	GC24-74-7	06/01/2009 23:22:21			
15	WFF-LOC5-090527-BT003	AM06246RR1	GC24-74-8	06/02/2009 00:27:55	39.76	-0.01	83.9
16	WFF-SCHU-090527-BT003	AM06247RR1	GC24-74-9	06/02/2009 01:33:27	39.76	-0.01	81.2
17	WFF-STWA-090527-BT001	AM06248RR1	GC24-74-10	06/02/2009 02:39:02	39.76	-0.01	82.7
18	WFF-THIS-090527-BT001	AM06249RR1	GC24-74-11	06/02/2009 03:44:35	39.76	-0.01	83.1
19	WFF-TIDA-090527-BT003	AM06250RR1	GC24-74-12	06/02/2009 04:50:22	39.77	0.00	79.9
20	WFF-LOC5-090527-BT003	AM06246DL2	GC24-74-13	06/02/2009 05:55:54	39.76	-0.01	95.7
21	WFF-SCHU-090527-BT003	AM06247DL2	GC24-74-14	06/02/2009 07:01:29	39.76	-0.01	98.5
22	WFF-THIS-090527-BT001	AM06249DL2	GC24-74-15	06/02/2009 08:07:04	39.76	-0.01	97.3
23	WFF-TIDA-090527-BT003	AM06250DL2	GC24-74-16	06/02/2009 09:12:44	39.76	-0.01	111
24	CCC Std 122 ng/mL	CCCS0601C	GC24-74-17	06/02/2009 10:18:21			



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Sample Name:	AM06245B	Sample Amount:	8.000 L
Sample ID:	METHOD BLANK	Dilution:	5
Date Acquired:	05/30/2009 22:11:27	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	05/31/2009 23:27:45
Sample Set Name:	GC16_053009d	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_050609	Current Time:	08:44:30
Run Time:	60 Minutes	Current Date:	06/03/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-691-13

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.97	16577	1.884	94.2
2	I.S. (OCN)	46.98	161434	29.088	



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Sample Name:	AM06245L	Sample Amount:	8.000 L
Sample ID:	LAB CONTROL SPIKE	Dilution:	5
Date Acquired:	05/30/2009 23:18:49	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	05/31/2009 23:26:23
Sample Set Name:	GC16_053009d	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_050609	Current Time:	08:44:31
Run Time:	60 Minutes	Current Date:	06/03/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-691-14

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.97	16673	1.940	97
2	I.S. (OCN)	47.00	157648	29.088	



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Sample Name: AM06270BRR1      Sample Amount: 1.000 L  
Sample ID: METHOD BLANK      Dilution: 5  
Date Acquired: 05/31/2009 16:06:28      Extract Volume: 5 mL  
Project Name: GC24\_Mar\_2009      Date Processed: 06/01/2009 09:23:01  
Sample Set Name: GC24\_nea\_053109e      User Name: Amy Jo Arndt  
Processing Method: CSGB\_S\_20\_051909      Current Time: 08:44:31  
Run Time: 60 Minutes      Current Date: 06/03/2009  
Report Name: CSGB\_Surrogate(NeaLims)      LIMS File ID: GC24-73-7

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.77	146798	16.950	84.8
2	I.S. (OCN)	45.42	152282	3.636	



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Sample Name:	AM06270LRR1	Sample Amount:	1.000 L
Sample ID:	LAB CONTROL SPIKE	Dilution:	5
Date Acquired:	05/31/2009 17:12:09	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 09:23:09
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_051909	Current Time:	08:44:31
Run Time:	60 Minutes	Current Date:	06/03/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-8

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.77	142174	16.879	84.4
2	I.S. (OCN)	45.42	148109	3.636	



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Sample Name:	AM06245	Sample Amount:	8.460 L
Sample ID:	WFF-FDBL-090527-BT001	Dilution:	5
Date Acquired:	05/31/2009 00:26:08	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	05/31/2009 16:08:41
Sample Set Name:	GC16_053009d	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_050609	Current Time:	08:44:31
Run Time:	60 Minutes	Current Date:	06/03/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-691-15

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.97	17360	2.037	102
2	I.S. (OCN)	46.99	156303	30.761	



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Sample Name:	AM06246RR1	Sample Amount:	1.020 L
Sample ID:	WFF-LOC5-090527-BT003	Dilution:	5
Date Acquired:	06/02/2009 00:27:55	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/02/2009 20:36:58
Sample Set Name:	GC24_060109b	User Name:	Milca Mercado-Olivieri
Processing Method:	CSGB_LL1X_051909	Current Time:	08:44:31
Run Time:	60 Minutes	Current Date:	06/03/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-74-8

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	128506	16.783	83.9
2	I.S. (OCN)	45.41	134636	3.709	



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Sample Name: AM06246DL2 Sample Amount: 1.020 L  
Sample ID: WFF-LOC5-090527-BT003 Dilution: 50  
Date Acquired: 06/02/2009 05:55:54 Extract Volume: 5 mL  
Project Name: GC24\_Mar\_2009 Date Processed: 06/02/2009 18:28:21  
Sample Set Name: GC24\_060109b User Name: Milca Mercado-Olivieri  
Processing Method: CSGB\_S\_20\_051909 Current Time: 08:44:32  
Run Time: 60 Minutes Current Date: 06/03/2009  
Report Name: CSGB\_Surrogate(NeaLims) LIMS File ID: GC24-74-13

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	15680	1.915	95.7
2	I.S. (OCN)	45.41	143999	0.371	



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Sample Name:	AM06247RR1	Sample Amount:	0.980 L
Sample ID:	WFF-SCHU-090527-BT003	Dilution:	5
Date Acquired:	06/02/2009 01:33:27	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/02/2009 20:40:36
Sample Set Name:	GC24_060109b	User Name:	Milca Mercado-Olivieri
Processing Method:	CSGB_LL1X_051909	Current Time:	08:44:31
Run Time:	60 Minutes	Current Date:	06/03/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-74-9

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	129974	16.236	81.2
2	I.S. (OCN)	45.41	140766	3.563	



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Sample Name:	AM06247DL2	Sample Amount:	0.980 L
Sample ID:	WFF-SCHU-090527-BT003	Dilution:	50
Date Acquired:	06/02/2009 07:01:29	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/02/2009 18:28:30
Sample Set Name:	GC24_060109b	User Name:	Milca Mercado-Olivieri
Processing Method:	CSGB_S_20_051909	Current Time:	08:44:32
Run Time:	60 Minutes	Current Date:	06/03/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-74-14

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	15012	1.970	98.5
2	I.S. (OCN)	45.40	134002	0.356	



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Sample Name:	AM06248RR1	Sample Amount:	1.060 L
Sample ID:	WFF-STWA-090527-BT001	Dilution:	5
Date Acquired:	06/02/2009 02:39:02	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/02/2009 20:42:20
Sample Set Name:	GC24_060109b	User Name:	Milca Mercado-Olivieri
Processing Method:	CSGB_LL1X_051909	Current Time:	08:44:31
Run Time:	60 Minutes	Current Date:	06/03/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-74-10

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	132410	16.532	82.7
2	I.S. (OCN)	45.41	140836	3.854	



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Sample Name:	AM06249RR1	Sample Amount:	1.000 L
Sample ID:	WFF-THIS-090527-BT001	Dilution:	5
Date Acquired:	06/02/2009 03:44:35	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/02/2009 20:44:24
Sample Set Name:	GC24_060109b	User Name:	Milca Mercado-Olivieri
Processing Method:	CSGB_LL1X_051909	Current Time:	08:44:32
Run Time:	60 Minutes	Current Date:	06/03/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-74-11

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	133507	16.617	83.1
2	I.S. (OCN)	45.41	141270	3.636	



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Sample Name:	AM06249DL2	Sample Amount:	1.000 L
Sample ID:	WFF-THIS-090527-BT001	Dilution:	50
Date Acquired:	06/02/2009 08:07:04	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/02/2009 18:28:37
Sample Set Name:	GC24_060109b	User Name:	Milca Mercado-Olivieri
Processing Method:	CSGB_S_20_051909	Current Time:	08:44:32
Run Time:	60 Minutes	Current Date:	06/03/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-74-15

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	15651	1.945	97.3
2	I.S. (OCN)	45.41	141471	0.364	



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Sample Name: AM06250RR1      Sample Amount: 1.000 L  
Sample ID: WFF-TIDA-090527-BT003      Dilution: 5  
Date Acquired: 06/02/2009 04:50:22      Extract Volume: 5 mL  
Project Name: GC24\_Mar\_2009      Date Processed: 06/02/2009 20:50:19  
Sample Set Name: GC24\_060109b      User Name: Milca Mercado-Olivieri  
Processing Method: CSGB\_LL1X\_051909      Current Time: 08:44:32  
Run Time: 60 Minutes      Current Date: 06/03/2009  
Report Name: CSGB\_Surrogate(NeaLims)      LIMS File ID: GC24-74-12

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.77	136919	15.988	79.9
2	I.S. (OCN)	45.40	150584	3.636	



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Sample Name:	AM06250DL2	Sample Amount:	1.000 L
Sample ID:	WFF-TIDA-090527-BT003	Dilution:	50
Date Acquired:	06/02/2009 09:12:44	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/02/2009 18:28:45
Sample Set Name:	GC24_060109b	User Name:	Milca Mercado-Olivieri
Processing Method:	CSGB_S_20_051909	Current Time:	08:44:32
Run Time:	60 Minutes	Current Date:	06/03/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-74-16

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	15249	2.218	111
2	I.S. (OCN)	45.41	120887	0.364	

# Laboratory Control Spike Summary

## PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Northeast Analytical, Inc.

ELAP ID No: 11078

SDG No: 09050311

LCS ID: LCS-53

Blank Sample ID: CEBLK-53

LCS File ID: GC16-691-14

Method Blank File ID: GC16-691-13

LCS Inj Date: 05/30/2009 23:18:49

Method Blank Inj Date: 05/30/2009 22:11:27

LCS NEA ID No: AM06245L

Method Blank NEA ID No: AM06245B

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS PERCENT RECOVERY #	QC LIMITS PERCENT RECOVERY
Total PCBs	6.25	5.82	93.1	60.0-140

# Column to be used to flag recovery values.

\* Value outside of QC limits.

Comments: \_\_\_\_\_  
\_\_\_\_\_

## PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Northeast Analytical, Inc.

ELAP ID No: 11078

SDG No: 09050311

LCS ID: LCS-52RR1

Blank Sample ID: CEBLK-52RR1

LCS File ID: GC24-73-8

Method Blank File ID: GC24-73-7

LCS Inj Date: 05/31/2009 17:12:09

Method Blank Inj Date: 05/31/2009 16:06:28

LCS NEA ID No: AM06270LRR1

Method Blank NEA ID No: AM06270BRR1

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS PERCENT RECOVERY #	QC LIMITS PERCENT RECOVERY
Total PCBs	200	177	88.6	60.0-140

# Column to be used to flag recovery values.

\* Value outside of QC limits.

Comments: \_\_\_\_\_  
 \_\_\_\_\_

# Method Blank Summary

**PCB METHOD BLANK SUMMARY**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09050311</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>CEBLK-53</u>
Matrix:	<u>ORGANIC FREE WATER</u>	Client ID:	<u>CEBLK-53(METHOD BLANK)</u>
Sample Wt(Dry)/Vol:	<u>8000 mL</u>	Lab Sample ID:	<u>AM06245B</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC16-691-13</u>
Extraction:	<u>Solid Phase Extraction - 8L</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>05/29/2009</u>
Injection Volume:	<u>0.5 uL</u>	Date/Time Analyzed:	<u>05/30/2009 22:11</u>
Analytical SOP Reference:	<u>SOP NE207_03.DOC</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE208_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>Agilent DB-1; 30 meter; 0.25 micron phase thickness</u>		

SAMPLE TOTAL PCB CONCENTRATION: <1.00 ng/L U

**PCB METHOD BLANK SUMMARY**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09050311</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>CEBLK-52RR1</u>
Matrix:	<u>ORGANIC FREE WATER</u>	Client ID:	<u>CEBLK-52(METHOD BLANK)</u>
Sample Wt(Dry)/Vol:	<u>1000 mL</u>	Lab Sample ID:	<u>AM06270BRR1</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-73-7</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>05/29/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>05/31/2009 16:06</u>
Analytical SOP Reference:	<u>SOP NE207_03.DOC</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0</u>		

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

# Sample Analysis Data

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050311
ELAP ID No:	11078	LRF ID:	09050311-01
Matrix:	Water	Client ID:	WFF-FDBL-090527-BT001
Sample Wt(Dry)/Vol:	8460 mL	Lab Sample ID:	AM06245
% Moisture:	100	Lab File ID:	GC16-691-15
Extraction:	Solid Phase Extraction - 8L	Date Received:	05/29/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	05/31/2009 00:26
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE208_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 156303

Percent Recovery (50 - 150 %): 116

SAMPLE TOTAL PCB CONCENTRATION: <1.00 ng/L U

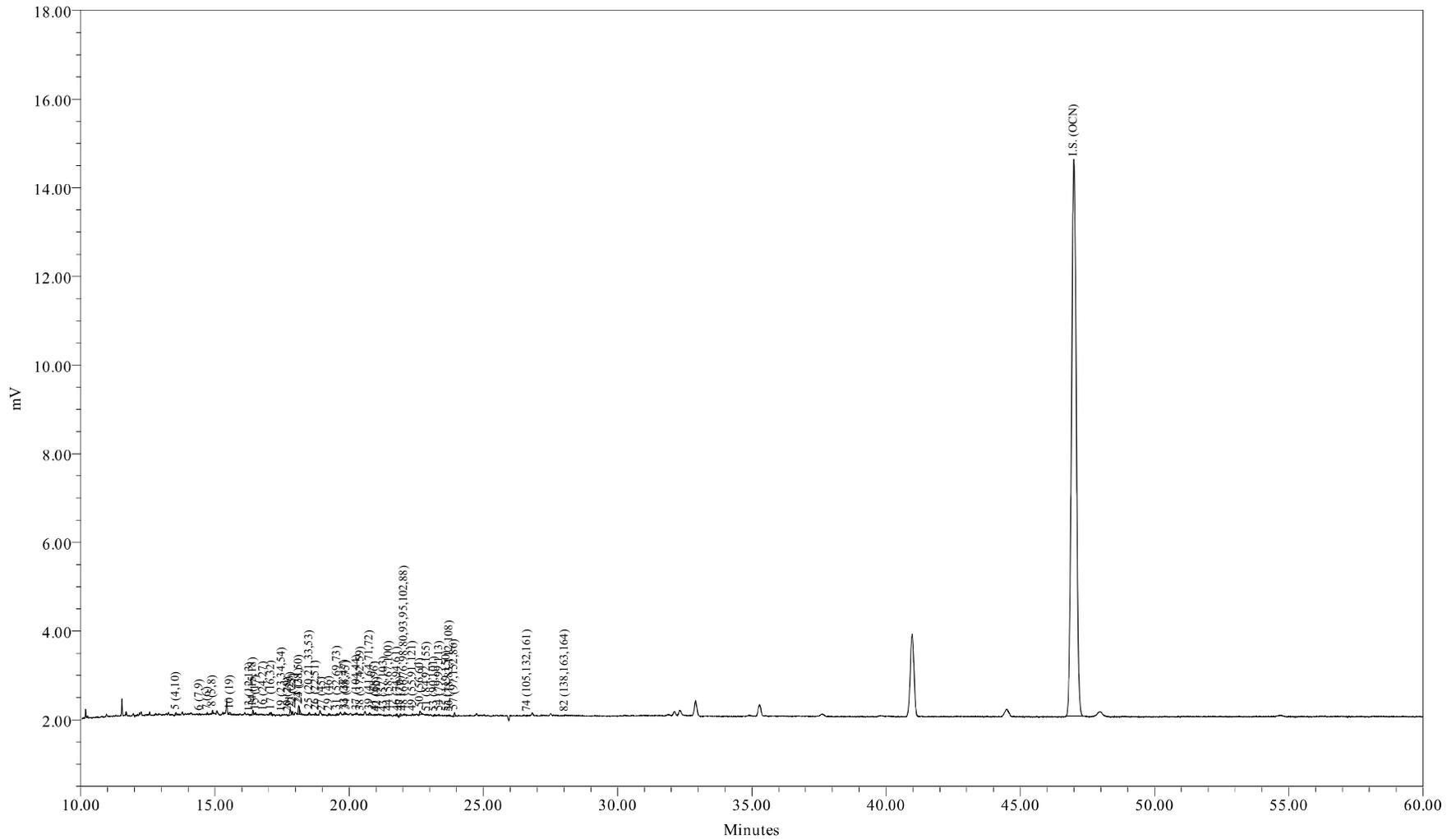
Visual Aroclor ID: No Aroclor Pattern Detected



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: AM06245  
Sample ID: WFF-FDBL-090527-BT001  
Date Acquired: 5/31/2009 12:26:08 AM EDT

Sample Amount (L) : 8.4600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_050609  
LIMS File ID:

Sample Name: AM06245

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-FDBL-090527-BT001  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 00:26:08  
 Lab Sample ID: AM06245  
 LRF ID: 09050311-01  
 Lab File ID: GC16-691-15

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <1.00 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	25.33	28.53
Tri	62.44	61.70
Tetra	3.13	2.71
Penta	9.09	7.07
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001		0	0
A1242	23+24/31+28	0.0492	100	100
A1254SED	61/100		0	
A1254BIO	69+75+82/149+153+138			0
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.73

Meta + Para Cl / biphenyl Residue = 1.16

Total Cl / biphenyl Residue = 2.88

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-FDBL-090527-BT001  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 00:26:08  
 Lab Sample ID: AM06245  
 LRF ID: 09050311-01  
 Lab File ID: GC16-691-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7				0.0495	0.274	U
3	12.83	188.7				0.986	125	U
4	12.94	188.7				0.0333	0.160	U
5	13.55	223.1	113	0.0724	0.325	0.0153	0.0777	J
6	14.42	223.1	68	0.00669	0.0300	0.00574	0.0274	J
7	14.72	223.1	80	0.0211	0.0945	0.00952	0.0434	JB
8	14.91	223.1	165			0.0422	0.320	U
9	15.48	223.1				0.0302	3.13	U
10	15.56	257.5	197	0.0404	0.157	0.00277	0.0128	B
11	16.03	257.5				0.0281	3.13	U
12	16.09	223.1				0.0332	3.13	U
13	16.30	223.1	6			0.00671	0.0122	U
14	16.42	249.0	241	0.0385	0.154	0.0133	0.0845	JB
15	16.51	257.5	98	0.0351	0.136	0.0185	0.0845	JB
16	16.79	257.5	16			0.00424	0.00594	U
17	17.09	257.5	207	0.0401	0.156	0.0126	0.0891	JB
19	17.49	267.9	35			0.0255	3.13	U
20	17.71	257.5	13			0.00271	0.00271	U
21	17.81	257.5	370	0.0619	0.240	0.00425	0.0164	B
22	17.89	257.5	175	0.0223	0.0867	0.00326	0.00731	B
23	18.12	257.5	487	0.0417	0.162	0.0384	0.0942	JB
24	18.14	257.5	276			0.0284	0.121	U
25	18.51	259.5	160			0.0175	0.0907	U
26	18.74	258.7	105			0.0140	0.0662	U
27	18.98	292.0	8			0.00817	0.0203	U
28	19.12	257.5				0.0283	3.13	U
29	19.23	292.0	87	0.0132	0.0450	0.0127	0.0127	B
30	19.38	257.5				0.0335	3.13	U
31	19.55	292.0	96			0.0180	0.109	U
32	19.72	292.0				0.00923	0.0525	U
33	19.83	292.0	125			0.0122	0.0228	U
34	19.89	292.0	50			0.00809	0.0228	U
35	20.04	292.0				0.0342	3.13	U
36	20.12	257.5				0.0324	3.13	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0	61			0.0175	0.0982	U
38	20.42	272.4	32			0.0166	0.0594	U
39	20.77	292.0	142			0.0130	0.0937	U
41	20.95	326.4	28			0.0259	3.13	U
42	21.05	292.0	11			0.0120	0.0215	U
43	21.28	298.9	3			0.0198	3.13	U
44	21.49	298.9	30			0.00345	0.00503	U
45	21.62	292.0				0.00520	0.00520	U
46	21.79	292.0	138			0.00685	0.0434	U
47	21.91	292.0	190			0.0159	0.0777	U
48	22.05	293.5	115			0.0596	0.164	U
49	22.35	324.7	69	0.00823	0.0253	0.00312	0.0117	JB
50	22.64	292.0	270			0.0301	0.0799	U
51	22.88	326.4	10			0.0150	0.0411	U
52	23.00	326.4				0.00741	0.00741	U
53	23.17	326.4	111	0.00740	0.0227	0.00631	0.0411	J
54	23.35	326.4	54			0.00363	0.0169	U
55	23.63	326.4	13			0.000850	0.00128	U
56	23.73	326.4	69	0.00668	0.0205	0.00458	0.00685	JB
57	23.92	326.4	247	0.0175	0.0536	0.00746	0.0128	B
58	24.11	326.4				0.00689	0.0265	U
59	24.26	326.4				0.00685	0.0160	U
60	24.38	360.9				0.00759	0.0171	U
61	24.51	326.4				0.0137	0.0487	U
62	24.79	360.9				0.0312	3.13	U
63	24.88	326.4				0.00241	0.0100	U
64	25.18	360.9				0.00580	0.0388	U
65	25.31	350.5				0.00185	0.00663	U
66	25.38	360.9				0.00423	0.0137	U
67	25.45	336.8				0.00374	0.00594	U
68	25.53	326.4				0.0215	3.13	U
69	25.63	337.5				0.0136	0.0914	U
70	25.74	360.9				0.0210	3.13	U
71	26.04	347.8				0.00451	0.00461	U
72	26.25	336.8				0.00142	0.00142	U
73	26.54	360.9				0.00484	0.00891	U
74	26.64	347.8	30			0.00529	0.0309	U
75	26.83	360.9				0.00997	0.0673	U
76	26.94	360.9				0.0330	3.13	U
77	27.36	360.9				0.0123	0.0388	U
78	27.43	395.3				0.00878	0.0334	U
79	27.65	360.9				0.00611	0.00611	U
80	27.81	360.9				0.00190	0.00594	U
82	28.03	360.9	11			0.00813	0.0617	U
83	28.22	360.9				0.00326	0.00571	U
84	28.43	360.9				0.000301	0.000591	U
85	28.78	395.3				0.00590	0.0251	U
87	29.09	395.3				0.00462	0.00914	U
88	29.24	395.3				0.0133	0.0822	U
89	29.37	360.9				0.00278	0.00457	U
90	29.55	395.3				0.00541	0.0388	U
91	29.83	360.9				0.00358	0.00358	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.17	394.3				0.00216	0.0107	U
93	30.54	394.3				0.00951	0.0731	U
94	30.82	394.3				0.00745	0.0388	U
95	31.12	382.2				0.0132	0.0180	U
96	31.39	429.8				0.00177	0.00177	U
98	31.56	395.3				0.00413	0.00413	U
99	31.94	429.8				0.00200	0.00891	U
100	32.20	395.3				0.0434	0.0434	U
101	32.50	429.8				0.00777	0.00777	U
102	32.69	395.3				0.0176	0.139	U
103	32.94	395.3				0.00905	0.00959	U
104	33.24	395.3				0.00245	0.00548	U
105	33.60	429.8				0.00260	0.00982	U
106	34.78	395.3				0.00399	0.0292	U
107	35.05	395.3				0.0119	0.0119	U
108	35.93	429.8				0.00197	0.00548	U
109	36.17	429.8				0.0144	0.0959	U
110	36.72	429.8				0.0174	0.0982	U
111	37.92	395.3				0.00313	0.00313	U
112	39.49	429.8				0.00287	0.0126	U
113	40.02	464.2				0.00722	0.0113	U
114	40.98	464.2				0.00251	0.00425	U
115	42.43	429.8				0.0121	0.0411	U
116	43.33	429.8				0.00783	0.00783	U
117	48.58	464.2				0.00316	0.0155	U
118	54.73	498.6				0.00131	0.00131	U

Total Concentration = <1.00 ng/L 1.00 4.03 U

Total Nanomoles = 0.002

Average Molecular Weight = 253.5

Number of Calibrated Peaks Found = 43

Internal Standard Retention Time = 46.99 minutes

Internal Standard Peak Area = 156303.5

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-FDBL-090527-BT001  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 00:26:08  
 Lab Sample ID: AM06245  
 LRF ID: 09050311-01  
 Lab File ID: GC16-691-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001		2	-	-
3	12.83	1:0	002		3	-	-
4	12.94	1:0	003		4	-	-
5	13.55	2:2	004 010	0.2884	2-2; 26	16.721	19.000
6	14.42	2:1	007 009	0.3069	24; 25	1.545	1.755
7	14.72	2:1	006	0.3133	2-3	4.866	5.528
8	14.91	2:1	005 008		23; 2-4	-	-
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019	0.3311	26-2	9.333	9.188
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.30	2:0	012 013		34; 3-4	-	-
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	8.879	9.040
15	16.51	3:2	017	0.3514	24-2	8.098	7.972
16	16.79	3:2	024 027		236; 26-3	-	-
17	17.09	3:2	016 032	0.3637	23-2; 26-4	9.264	9.120
19	17.49	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.71	3:1	029		245	-	-
21	17.81	3:1	026	0.3790	25-3	14.291	14.069
22	17.89	3:1	025	0.3807	24-3	5.153	5.073
23	18.12	3:1	031	0.3856	25-4	9.626	9.476
24	18.14	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.51	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.74	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.98	4:3	045		236-2	-	-
28	19.12	3:0	036		35-3	-	-
29	19.23	4:3	046	0.4092	23-26	3.037	2.636
30	19.38	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.72	4:2	043 049		235-2; 24-25	-	-
33	19.83	4:2	038 047		345; 24-24	-	-
34	19.89	4:2	048 075		245-2; 246-4	-	-
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.12	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.42	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.77	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.95	5:4	068 096		24-35; 236-26	-	-
42	21.05	4:2	040		23-23	-	-
43	21.28	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.49	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.62	4:1	063		235-4	-	-
46	21.79	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.91	4:1	070		25-34	-	-
48	22.05	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.35	4:1 5:3	055 091 121	0.4756	234-3; 236-24; 246-35	1.900	1.483
50	22.64	4:1	056 060		23-34; 234-4	-	-
51	22.88	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	23.00	5:3	089		234-26	-	-
53	23.17	5:2	090 101	0.4931	235-24; 245-25	1.708	1.326
54	23.35	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.63	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.73	5:2	078 083 112 108	0.5050	345-3; 235-23; 2356-3; 2346-3	1.542	1.197
57	23.92	5:2 6:4	097 152 086	0.5090	245-23; 2356-26; 2345-2	4.038	3.136
58	24.11	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.26	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.38	6:4	120 136		245-35; 236-236	-	-
61	24.51	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.79	6:3	154		245-246	-	-
63	24.88	5:2	082		234-23	-	-
64	25.18	6:3	151		2356-25	-	-
65	25.31	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.38	6:3	144		2346-25	-	-
67	25.45	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.53	5:1	123		345-24	-	-
69	25.63	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.25	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.54	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.64	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.83	6:2	153		245-245	-	-
76	26.94	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.36	6:2	141		2345-25	-	-
78	27.43	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.81	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.03	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.22	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.43	6:2	126 129		345-34; 2345-23	-	-
85	28.78	7:3	166 178		23456-4; 2356-235	-	-
87	29.09	7:3	175 159		2346-235; 2345-35	-	-
88	29.24	7:3	182 187		2345-246; 2356-245	-	-
89	29.37	6:2	128 162		234-234; 235-345	-	-
90	29.55	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.17	7:3	185		23456-25	-	-
93	30.54	7:3	174 181		2345-236; 23456-24	-	-
94	30.82	7:3	177		2356-234	-	-
95	31.12	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.39	8:4	157 202		234-345; 2356-2356	-	-
98	31.56	7:3	173		23456-23	-	-
99	31.94	8:4	201		2346-2356	-	-
100	32.20	7:2	172 204		2345-235; 23456-246	-	-
101	32.50	8:4	192 197		23456-35; 2346-2346	-	-
102	32.69	7:2	180		2345-245	-	-
103	32.94	7:2	193		2356-345	-	-
104	33.24	7:2	191		2346-345	-	-
105	33.60	8:4	200 169		23456-236; 345-345	-	-
106	34.78	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.05	7:2	<b>190</b>		23456-34	-	-
108	35.93	8:3	<b>198</b>		23456-235	-	-
109	36.17	8:3	<b>199</b>		2345-2356	-	-
110	36.72	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.92	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.02	9:4	<b>208</b>		23456-2356	-	-
114	40.98	9:4	<b>207</b>		23456-2346	-	-
115	42.43	8:2	<b>194</b>		2345-2345	-	-
116	43.33	8:2	<b>205</b>		23456-345	-	-
117	48.58	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = <1.00 ng/L

Total Nanomoles = 0.002

Average Molecular Weight = 253.5

Number of Calibrated Peaks Found = 43

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

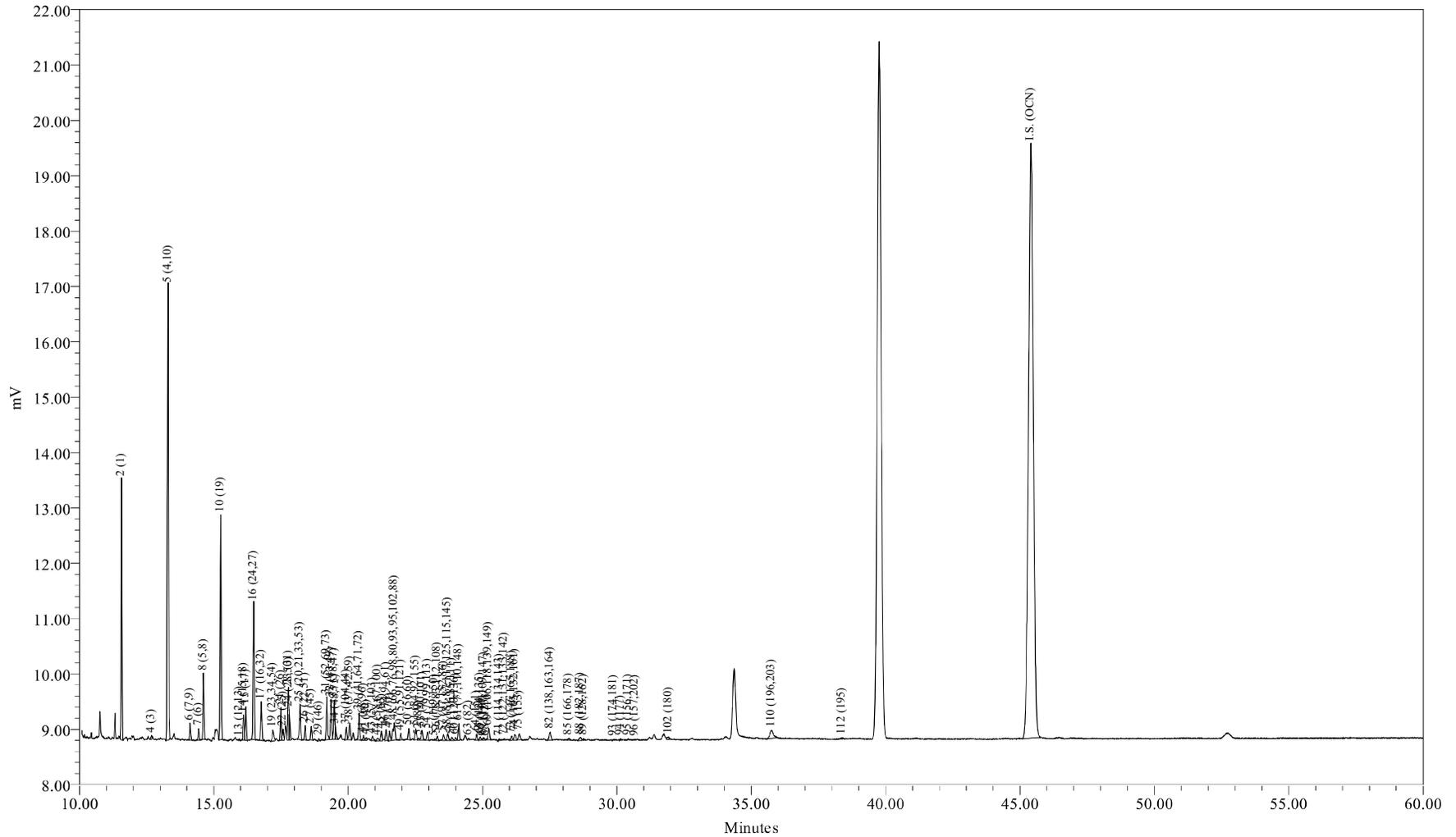
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050311
ELAP ID No:	11078	LRF ID:	09050311-02RR1
Matrix:	Water	Client ID:	WFF-LOC5-090527-BT003
Sample Wt(Dry)/Vol:	1020 mL	Lab Sample ID:	AM06246RR1
% Moisture:	100	Lab File ID:	GC24-74-8
Extraction:	Solid Phase Extraction - 1L	Date Received:	05/29/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	06/02/2009 00:27
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:		

OCN (I.S.) Peak Area: 134636

Percent Recovery (50 - 150 %): 116

SAMPLE TOTAL PCB CONCENTRATION: 477 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM06246RR1  
Sample ID: WFF-LOC5-090527-BT003  
Date Acquired: 06/02/2009 00:27:55 EDT

Sample Amount (L) : 1.0200  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-74-8

Sample Name: AM06246RR1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 00:27:55  
 Lab Sample ID: AM06246RR1  
 LRF ID: 09050311-02RR1  
 Lab File ID: GC24-74-8

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 477 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	43.95	49.40
Di	40.22	38.23
Tri	10.89	8.97
Tetra	3.15	2.30
Penta	1.22	0.79
Hexa	0.31	0.19
Hepta	0.02	0.01
Octa	0.22	0.11
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	203.4392	97.6	97.6
A1242	23+24/31+28	4.2012	2.02	2.02
A1254SED	61/100	0.8131	0.390	
A1254BIO	69+75+82/149+153+138	0.8170		0.392
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.49

Meta + Para Cl / biphenyl Residue = 0.19

Total Cl / biphenyl Residue = 1.68

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 00:27:55  
 Lab Sample ID: AM06246RR1  
 LRF ID: 09050311-02RR1  
 Lab File ID: GC24-74-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	1033	203	1080	5.29	21.9	
3	12.58	188.7				6.63	1000	U
4	12.68	188.7	149	6.22	32.9	0.355	1.28	
5	13.30	223.1	3451	183	822	1.34	6.21	
6	14.11	223.1	794	1.05	4.70	0.0721	0.219	
7	14.43	223.1	509	1.34	5.98	0.158	0.347	
8	14.62	223.1	2903	5.31	23.8	0.542	2.56	
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	1257	20.7	80.3	0.604	1.02	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.96	223.1	69	0.141	0.633	0.0559	0.0975	
14	16.11	249.0	1287	2.44	9.81	0.128	0.676	
15	16.19	257.5	1622	5.61	21.8	0.143	0.676	B
16	16.48	257.5	746	7.49	29.1	0.374	0.475	
17	16.77	257.5	2002	3.84	14.9	0.166	0.713	
19	17.20	267.9	811	1.34	5.01	0.128	25.0	J
20	17.37	257.5				0.0108	0.0194	U
21	17.50	257.5	1669	2.49	9.67	0.0606	0.132	B
22	17.57	257.5	585	0.668	2.59	0.0426	0.0585	B
23	17.77	257.5	2782	3.20	12.4	0.487	0.753	
24	17.80	257.5	1121	0.999	3.88	0.211	0.964	
25	18.21	259.5	1966	2.65	10.2	0.105	0.726	
26	18.40	258.7	752	0.984	3.80	0.120	0.530	
27	18.63	292.0	663	0.880	3.01	0.0367	0.163	B
28	18.77	257.5				0.375	25.0	U
29	18.91	292.0	126	0.182	0.623	0.127	0.127	
30	19.03	257.5				0.120	25.0	U
31	19.20	292.0	2389	4.18	14.3	0.204	0.872	
32	19.36	292.0	2231	1.97	6.76	0.0978	0.420	
33	19.48	292.0	2345	1.50	5.14	0.0656	0.183	
34	19.52	292.0	408	0.309	1.06	0.0579	0.183	
35	19.68	292.0				0.205	25.0	U
36	19.76	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	693	0.545	1.87	0.160	0.786	J
38	20.06	272.4	1000	1.33	4.88	0.115	0.475	
39	20.40	292.0	1569	1.24	4.23	0.121	0.749	
41	20.57	326.4	255	0.400	1.23	0.115	25.0	J
42	20.68	292.0	162	0.182	0.623	0.0968	0.172	
43	20.91	298.9	305	0.344	1.15	0.152	25.0	J
44	21.10	298.9	259	0.195	0.654	0.0225	0.0402	
45	21.24	292.0	557	0.429	1.47	0.0299	0.0384	
46	21.41	292.0	668	0.312	1.07	0.0821	0.347	J
47	21.54	292.0	529	0.222	0.761	0.164	0.621	J
48	21.72	293.5	1684	1.54	5.24	0.243	1.32	
49	21.96	324.7	373	0.346	1.07	0.0376	0.0932	
50	22.25	292.0	672			0.359	0.640	U
51	22.52	326.4	790	1.57	4.80	0.0888	0.329	
52	22.63	326.4	102	0.0971	0.297	0.0384	0.0384	B
53	22.75	326.4	674	0.571	1.75	0.0691	0.329	
54	22.95	326.4	488	0.266	0.816	0.101	0.135	
55	23.23	326.4	83	0.0314	0.0962	0.00644	0.0102	
56	23.32	326.4	266	0.265	0.811	0.0647	0.0647	
57	23.55	326.4	416	0.277	0.849	0.0435	0.102	B
58	23.70	326.4	441	0.326	1.000	0.0841	0.212	
59	23.85	326.4	195	0.115	0.352	0.0484	0.128	J
60	23.99	360.9	189	0.105	0.291	0.0772	0.137	J
61	24.12	326.4	986	0.813	2.49	0.0668	0.389	
62	24.39	360.9				0.113	25.0	U
63	24.49	326.4	93	0.0745	0.228	0.0201	0.0804	J
64	24.77	360.9	357	0.216	0.598	0.0518	0.311	J
65	24.91	350.5	193	0.0852	0.243	0.0149	0.0530	
66	24.98	360.9	46	0.0617	0.171	0.0541	0.110	J
67	25.05	336.8	158	0.147	0.437	0.0348	0.0475	
68	25.12	326.4	40			0.125	25.0	U
69	25.23	337.5	793	0.367	1.09	0.0938	0.731	J
70	25.33	360.9				0.0829	25.0	U
71	25.61	347.8	91	0.0623	0.179	0.0348	0.0369	
72	25.80	336.8	58	0.0256	0.0760	0.00638	0.0106	
73	26.09	360.9	283	0.195	0.541	0.0320	0.0713	
74	26.20	347.8	432	0.224	0.644	0.0721	0.248	J
75	26.36	360.9	477	0.132	0.366	0.109	0.538	J
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.29	360.9				0.0151	0.0475	U
82	27.52	360.9	729	0.318	0.880	0.108	0.493	J
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3	126	0.113	0.287	0.0677	0.201	J
87	28.51	395.3				0.0156	0.0731	U
88	28.64	395.3	315			0.102	0.658	U
89	28.76	360.9	116	0.0587	0.163	0.0199	0.0366	
90	28.94	395.3				0.0679	0.311	U
91	29.19	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.87	394.3	79			0.102	0.585	U
94	30.14	394.3	101			0.0936	0.311	U
95	30.41	382.2	45			0.0871	0.144	U
96	30.67	429.8	26			0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.92	395.3	288			0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.75	429.8	1324	1.01	2.35	0.184	0.786	
111	36.86	395.3				0.0231	0.0231	U
112	38.38	429.8	132	0.0385	0.0895	0.0368	0.101	J
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = 477 ng/L

15.9 58.8

Total Nanomoles = 2.249

Average Molecular Weight = 212.1

Number of Calibrated Peaks Found = 72

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 134635.7

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 00:27:55  
 Lab Sample ID: AM06246RR1  
 LRF ID: 09050311-02RR1  
 Lab File ID: GC24-74-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	42.651	47.940
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003	0.2792	4	1.303	1.465
5	13.30	2:2	004 010	0.2929	2-2; 26	38.456	36.559
6	14.11	2:1	007 009	0.3107	24; 25	0.220	0.209
7	14.43	2:1	006	0.3178	2-3	0.280	0.266
8	14.62	2:1	005 008	0.3220	23; 2-4	1.113	1.058
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	4.336	3.571
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.96	2:0	012 013	0.3515	34; 3-4	0.030	0.028
14	16.11	2:0 3:2	015 018	0.3548	4-4; 25-2	0.512	0.436
15	16.19	3:2	017	0.3565	24-2	1.175	0.968
16	16.48	3:2	024 027	0.3629	236; 26-3	1.570	1.294
17	16.77	3:2	016 032	0.3693	23-2; 26-4	0.806	0.664
19	17.20	3:1 4:4	023 034 054	0.3788	235; 35-2; 26-26	0.281	0.223
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026	0.3854	25-3	0.522	0.430
22	17.57	3:1	025	0.3869	24-3	0.140	0.115
23	17.77	3:1	031	0.3913	25-4	0.671	0.553
24	17.80	3:1 4:3	028 050	0.3920	24-4; 246-2	0.209	0.173
25	18.21	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	0.555	0.454
26	18.40	3:1 4:3	022 051	0.4052	23-4; 24-26	0.206	0.169
27	18.63	4:3	045	0.4103	236-2	0.184	0.134
28	18.77	3:0	036		35-3	-	-
29	18.91	4:3	046	0.4164	23-26	0.038	0.028
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4228	25-25; 246-3; 26-35	0.877	0.637
32	19.36	4:2	043 049	0.4263	235-2; 24-25	0.414	0.301
33	19.48	4:2	038 047	0.4290	345; 24-24	0.315	0.229
34	19.52	4:2	048 075	0.4299	245-2; 246-4	0.065	0.047
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044	0.4389	246-26; 23-25	0.114	0.083
38	20.06	3:0 4:2	037 042 059	0.4418	34-4; 23-24; 236-3	0.279	0.217
39	20.40	4:2	041 064 071 072	0.4492	234-2; 236-4; 26-34; 25-35	0.259	0.188

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
41	20.57	5:4	068 096	0.4530	24-35; 236-26	0.084	0.055
42	20.68	4:2	040	0.4554	23-23	0.038	0.028
43	20.91	4:1 5:3	057 103	0.4605	235-3; 246-25	0.072	0.051
44	21.10	4:1 5:3	058 067 100	0.4647	23-35; 245-3; 246-24	0.041	0.029
45	21.24	4:1	063	0.4677	235-4	0.090	0.065
46	21.41	4:1 5:3	074 094 061	0.4715	245-4; 235-26; 2345	0.065	0.047
47	21.54	4:1	070	0.4743	25-34	0.047	0.034
48	21.72	4:1 5:3	066 076 098 080 093 095 102 088	0.4783	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.323	0.233
49	21.96	4:1 5:3	055 091 121	0.4836	234-3; 236-24; 246-35	0.073	0.047
50	22.25	4:1	056 060		23-34; 234-4	-	-
51	22.52	5:3 6:4	084 092 155	0.4959	236-23; 235-25; 246-246	0.328	0.213
52	22.63	5:3	089	0.4983	234-26	0.020	0.013
53	22.75	5:2	090 101	0.5010	235-24; 245-25	0.120	0.078
54	22.95	5:2	079 099 113	0.5054	34-35; 245-24; 236-35	0.056	0.036
55	23.23	5:2 6:4	119 150	0.5116	246-34; 236-246	0.007	0.004
56	23.32	5:2	078 083 112 108	0.5135	345-3; 235-23; 2356-3; 2346-3	0.055	0.036
57	23.55	5:2 6:4	097 152 086	0.5186	245-23; 2356-26; 2345-2	0.058	0.038
58	23.70	5:2	081 087 117 125 115 145	0.5219	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.068	0.044
59	23.85	5:2	116 085 111	0.5252	23456; 234-24; 235-35	0.024	0.016
60	23.99	6:4	120 136	0.5283	245-35; 236-236	0.022	0.013
61	24.12	5:2	077 110 148	0.5312	34-34; 236-34; 235-246	0.170	0.111
62	24.39	6:3	154		245-246	-	-
63	24.49	5:2	082	0.5393	234-23	0.016	0.010
64	24.77	6:3	151	0.5455	2356-25	0.045	0.027
65	24.91	5:1 6:3	124 135	0.5486	345-25; 235-236	0.018	0.011
66	24.98	6:3	144	0.5501	2346-25	0.013	0.008
67	25.05	5:1 6:3	107 109 147	0.5516	234-35; 235-34; 2356-24	0.031	0.019
68	25.12	5:1	123		345-24	-	-
69	25.23	5:1 6:3	106 118 139 149	0.5556	2345-3; 245-34; 2346-24; 236-245	0.077	0.048
70	25.33	6:3	140		234-246	-	-
71	25.61	5:1 6:3	114 134 143	0.5640	2345-4; 2356-23; 2345-26	0.013	0.008
72	25.80	5:1 6:3	122 131 133 142	0.5682	345-23; 2346-23; 235-235; 23456-2	0.005	0.003
73	26.09	6:2	146 165 188	0.5745	235-245; 2356-35; 2356-246	0.041	0.024
74	26.20	5:1 6:3	105 132 161	0.5770	234-34; 234-236; 2346-35	0.047	0.029
75	26.36	6:2	153	0.5805	245-245	0.028	0.016
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.52	6:2	138 163 164	0.6060	234-245; 2356-34; 236-345	0.067	0.039
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178	0.6212	23456-4; 2356-235	0.024	0.013
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.64	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162	0.6333	234-234; 235-345	0.012	0.007
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.87	7:3	174 181		2345-236; 23456-24	-	-
94	30.14	7:3	177		2356-234	-	-
95	30.41	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.67	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.92	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.75	8:3	<b>196 203</b>	0.7873	2345-2346; 23456-245	0.212	0.105
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.38	8:3	<b>195</b>	0.8452	23456-234	0.008	0.004
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 477 ng/L

Total Nanomoles = 2.249

Average Molecular Weight = 212.1

Number of Calibrated Peaks Found = 72

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

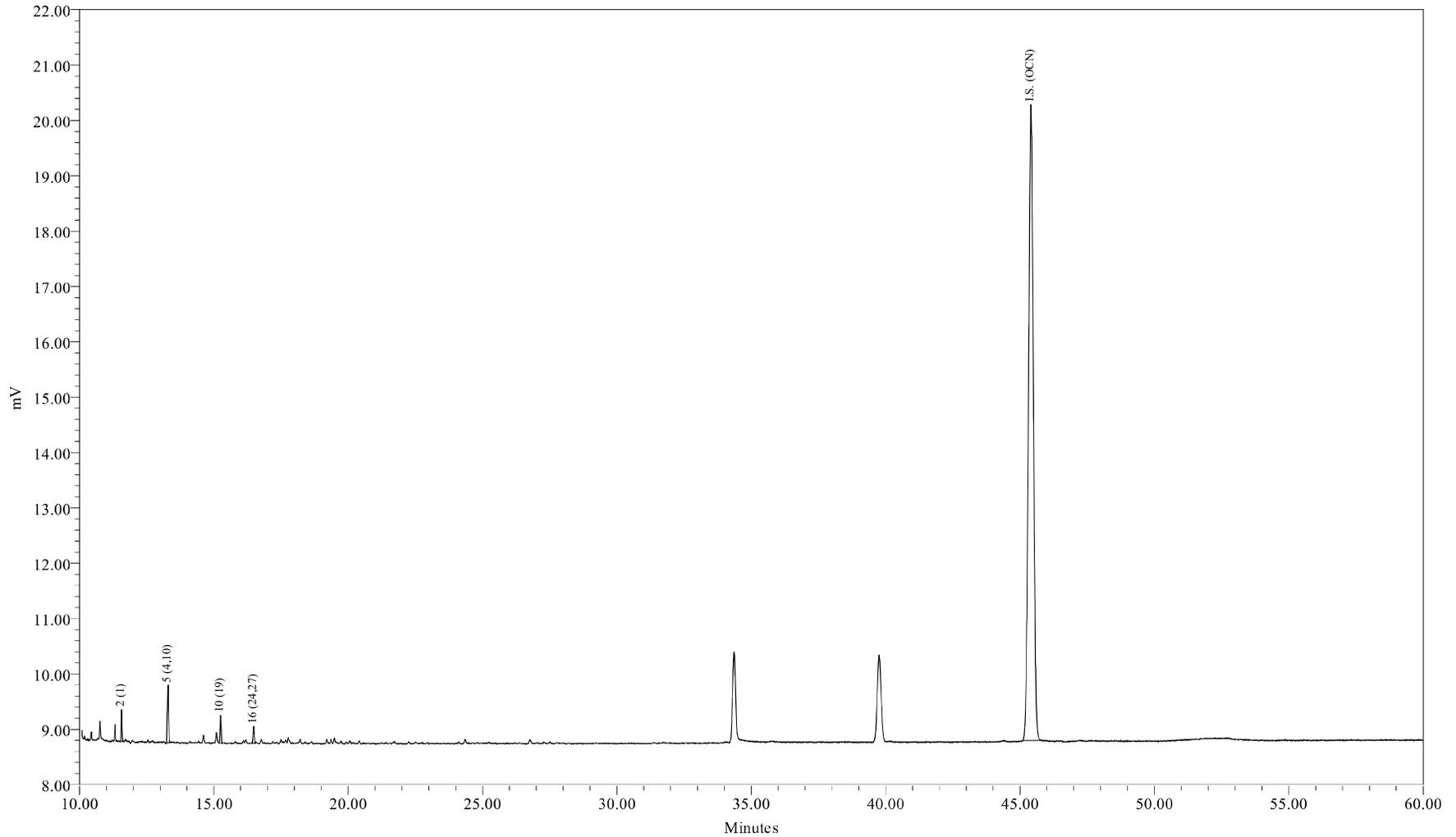
<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Sample Name: AM06246DL2  
Sample ID: WFF-LOC5-090527-BT003  
Date Acquired: 06/02/2009 05:55:54 EDT

Sample Amount (L) : 1.0200  
Dilution: 50  
Processing Method: CSG\_B\_LL1X\_051909  
LIMS File ID: GC24-74-13

Sample Name: AM06246DL2

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 05:55:54  
 Lab Sample ID: AM06246DL2  
 LRF ID: 09050311-02DL2  
 Lab File ID: GC24-74-13

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 415 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	49.02	53.65
Di	44.20	40.91
Tri	6.79	5.44
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	203.4392	100	100
A1242	23+24/31+28		0	0
A1254SED	61/100		0	
A1254BIO	69+75+82/149+153+138			0
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.50

Meta + Para Cl / biphenyl Residue = 0.01

Total Cl / biphenyl Residue = 1.52

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 05:55:54  
 Lab Sample ID: AM06246DL2  
 LRF ID: 09050311-02DL2  
 Lab File ID: GC24-74-13

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	1033	203	1080	5.29	21.9	
3	12.58	188.7				66.3	10000	U
4	12.68	188.7				3.55	12.8	U
5	13.30	223.1	3451	183	822	1.34	6.21	
6	14.13	223.1				0.721	2.19	U
7	14.44	223.1				1.58	3.47	U
8	14.62	223.1				5.42	25.6	U
9	15.18	223.1				2.94	250	U
10	15.25	257.5	1257	20.7	80.3	0.604	1.02	
11	15.72	257.5				1.98	250	U
12	15.78	223.1				3.06	250	U
13	15.98	223.1				0.559	0.975	U
14	16.11	249.0				1.28	6.76	U
15	16.19	257.5				1.43	6.76	U
16	16.48	257.5	746	7.49	29.1	0.374	0.475	
17	16.75	257.5				1.66	7.13	U
19	17.20	267.9				1.28	250	U
20	17.37	257.5				0.108	0.194	U
21	17.50	257.5				0.606	1.32	U
22	17.58	257.5				0.426	0.585	U
23	17.78	257.5				4.87	7.53	U
24	17.82	257.5				2.11	9.64	U
25	18.17	259.5				1.05	7.26	U
26	18.41	258.7				1.20	5.30	U
27	18.63	292.0				0.367	1.63	U
28	18.77	257.5				3.75	250	U
29	18.91	292.0				1.27	1.27	U
30	19.03	257.5				1.20	250	U
31	19.20	292.0				2.04	8.72	U
32	19.37	292.0				0.978	4.20	U
33	19.48	292.0				0.656	1.83	U
34	19.54	292.0				0.579	1.83	U
35	19.68	292.0				2.05	250	U
36	19.76	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0				1.60	7.86	U
38	20.06	272.4				1.15	4.75	U
39	20.41	292.0				1.21	7.49	U
41	20.57	326.4				1.15	250	U
42	20.67	292.0				0.968	1.72	U
43	20.92	298.9				1.52	250	U
44	21.09	298.9				0.225	0.402	U
45	21.25	292.0				0.299	0.384	U
46	21.41	292.0				0.821	3.47	U
47	21.55	292.0				1.64	6.21	U
48	21.66	293.5				2.43	13.2	U
49	21.96	324.7				0.376	0.932	U
50	22.26	292.0				3.59	6.40	U
51	22.51	326.4				0.888	3.29	U
52	22.61	326.4				0.384	0.384	U
53	22.76	326.4				0.691	3.29	U
54	22.95	326.4				1.01	1.35	U
55	23.23	326.4				0.0644	0.102	U
56	23.33	326.4				0.647	0.647	U
57	23.54	326.4				0.435	1.02	U
58	23.71	326.4				0.841	2.12	U
59	23.86	326.4				0.484	1.28	U
60	23.99	360.9				0.772	1.37	U
61	24.12	326.4				0.668	3.89	U
62	24.39	360.9				1.13	250	U
63	24.48	326.4				0.201	0.804	U
64	24.78	360.9				0.518	3.11	U
65	24.92	350.5				0.149	0.530	U
66	24.98	360.9				0.541	1.10	U
67	25.04	336.8				0.348	0.475	U
68	25.13	326.4				1.25	250	U
69	25.22	337.5				0.938	7.31	U
70	25.33	360.9				0.829	250	U
71	25.62	347.8				0.348	0.369	U
72	25.82	336.8				0.0638	0.106	U
73	26.08	360.9				0.320	0.713	U
74	26.20	347.8				0.721	2.48	U
75	26.36	360.9				1.09	5.38	U
76	26.47	360.9				1.07	250	U
77	26.87	360.9				0.637	3.11	U
78	26.94	395.3				0.470	2.67	U
79	27.13	360.9				0.501	0.501	U
80	27.29	360.9				0.151	0.475	U
82	27.51	360.9				1.08	4.93	U
83	27.68	360.9				0.450	0.457	U
84	27.88	360.9				0.0310	0.0473	U
85	28.21	395.3				0.677	2.01	U
87	28.51	395.3				0.156	0.731	U
88	28.65	395.3				1.02	6.58	U
89	28.76	360.9				0.199	0.366	U
90	28.94	395.3				0.679	3.11	U
91	29.19	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.225	0.859	U
93	29.89	394.3				1.02	5.85	U
94	30.15	394.3				0.936	3.11	U
95	30.43	382.2				0.871	1.44	U
96	30.69	429.8				0.0942	0.121	U
98	30.85	395.3				0.133	0.139	U
99	31.21	429.8				0.863	0.863	U
100	31.45	395.3				1.27	1.27	U
101	31.71	429.8				2.17	2.17	U
102	31.90	395.3				1.50	11.1	U
103	32.15	395.3				0.640	0.768	U
104	32.45	395.3				0.374	0.438	U
105	32.78	429.8				0.460	0.786	U
106	33.90	395.3				0.538	2.34	U
107	34.15	395.3				0.213	0.768	U
108	34.98	429.8				0.324	0.438	U
109	35.22	429.8				1.16	7.68	U
110	35.74	429.8				1.84	7.86	U
111	36.86	395.3				0.231	0.231	U
112	38.35	429.8				0.368	1.01	U
113	38.85	464.2				0.438	0.903	U
114	39.76	464.2				0.154	0.340	U
115	41.12	429.8				0.969	3.29	U
116	41.98	429.8				0.838	0.838	U
117	46.94	464.2				0.384	1.24	U
118	52.76	498.6				0.126	0.126	U

Total Concentration = 415 ng/L

91.0

322

Total Nanomoles = 2.010

Average Molecular Weight = 206.5

Number of Calibrated Peaks Found = 4

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 143998.8

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 05:55:54  
 Lab Sample ID: AM06246DL2  
 LRF ID: 09050311-02DL2  
 Lab File ID: GC24-74-13

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	49.017	53.646
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.30	2:2	004 010	0.2929	2-2; 26	44.195	40.910
6	14.13	2:1	007 009		24; 25	-	-
7	14.44	2:1	006		2-3	-	-
8	14.62	2:1	005 008		23; 2-4	-	-
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	4.983	3.996
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.19	3:2	017		24-2	-	-
16	16.48	3:2	024 027	0.3629	236; 26-3	1.805	1.448
17	16.75	3:2	016 032		23-2; 26-4	-	-
19	17.20	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026		25-3	-	-
22	17.58	3:1	025		24-3	-	-
23	17.78	3:1	031		25-4	-	-
24	17.82	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.17	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.41	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.63	4:3	045		236-2	-	-
28	18.77	3:0	036		35-3	-	-
29	18.91	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.37	4:2	043 049		235-2; 24-25	-	-
33	19.48	4:2	038 047		345; 24-24	-	-
34	19.54	4:2	048 075		245-2; 246-4	-	-
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.06	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.41	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096		24-35; 236-26	-	-
42	20.67	4:2	040		23-23	-	-
43	20.92	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.09	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.25	4:1	063		235-4	-	-
46	21.41	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.55	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.96	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.26	4:1	056 060		23-34; 234-4	-	-
51	22.51	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.61	5:3	089		234-26	-	-
53	22.76	5:2	090 101		235-24; 245-25	-	-
54	22.95	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.23	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.33	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.54	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.71	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.86	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.99	6:4	120 136		245-35; 236-236	-	-
61	24.12	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082		234-23	-	-
64	24.78	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.98	6:3	144		2346-25	-	-
67	25.04	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.13	5:1	123		345-24	-	-
69	25.22	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.20	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 415 ng/L

Total Nanomoles = 2.010

Average Molecular Weight = 206.5

Number of Calibrated Peaks Found = 4

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

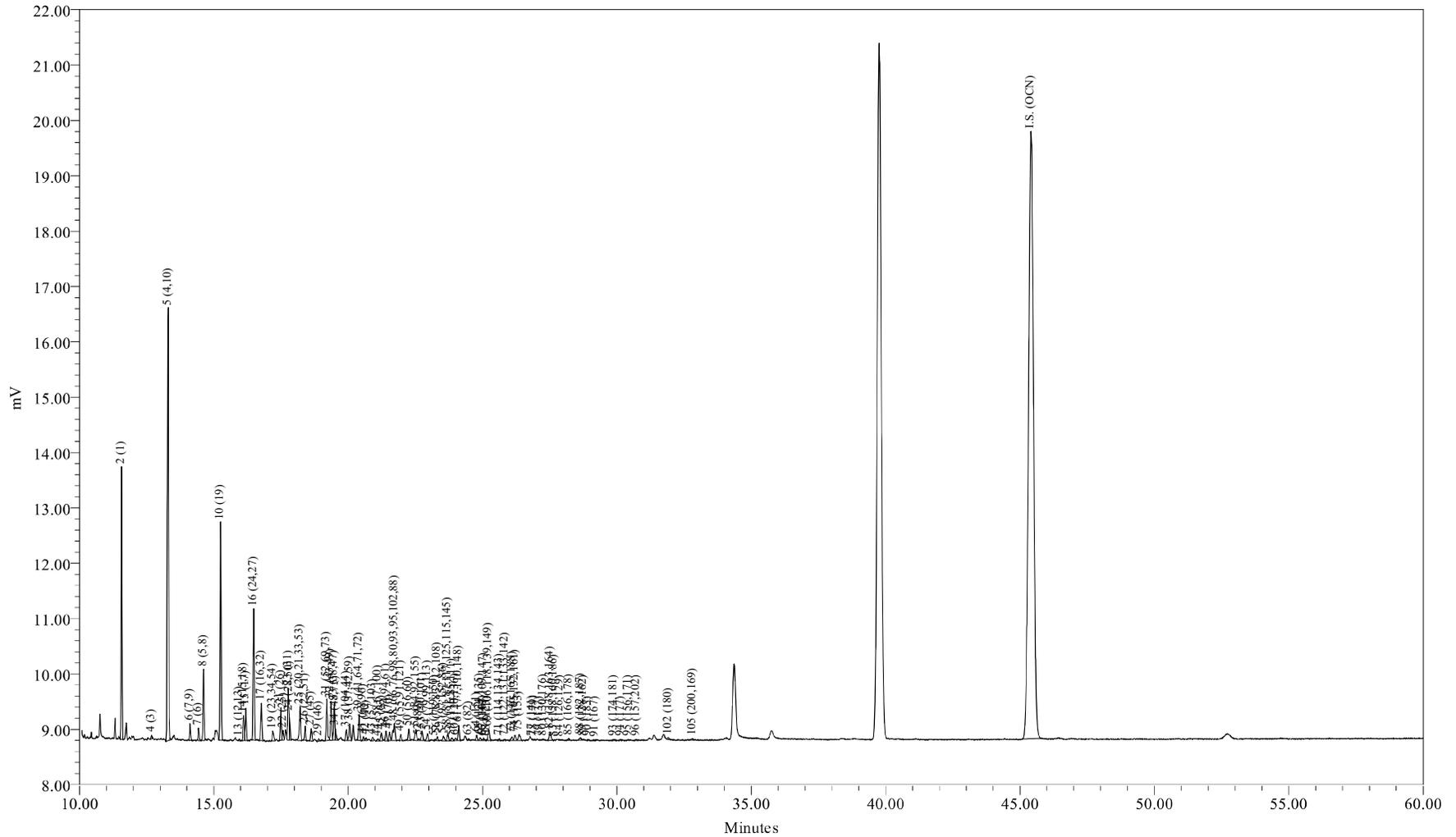
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050311
ELAP ID No:	11078	LRF ID:	09050311-03RR1
Matrix:	Water	Client ID:	WFF-SCHU-090527-BT003
Sample Wt(Dry)/Vol:	980 mL	Lab Sample ID:	AM06247RR1
% Moisture:	100	Lab File ID:	GC24-74-9
Extraction:	Solid Phase Extraction - 1L	Date Received:	05/29/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	06/02/2009 01:33
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:		

OCN (I.S.) Peak Area: 140766

Percent Recovery (50 - 150 %): 122

SAMPLE TOTAL PCB CONCENTRATION: 516 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM06247RR1  
 Sample ID: WFF-SCHU-090527-BT003  
 Date Acquired: 06/02/2009 01:33:27 EDT

Sample Amount (L) : 0.9800  
 Dilution: 5  
 Processing Method: CSGB\_LL1X\_051909  
 LIMS File ID: GC24-74-9

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 01:33:27  
 Lab Sample ID: AM06247RR1  
 LRF ID: 09050311-03RR1  
 Lab File ID: GC24-74-9

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 516 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	47.13	52.50
Di	38.79	36.53
Tri	9.90	8.07
Tetra	2.77	2.00
Penta	1.09	0.70
Hexa	0.29	0.17
Hepta	0.02	0.01
Octa	0.01	0.01
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	237.6078	98.0	98.0
A1242	23+24/31+28	3.9617	1.63	1.63
A1254SED	61/100	0.7700	0.318	
A1254BIO	69+75+82/149+153+138	0.7809		0.322
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.46

Meta + Para Cl / biphenyl Residue = 0.16

Total Cl / biphenyl Residue = 1.62

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 01:33:27  
 Lab Sample ID: AM06247RR1  
 LRF ID: 09050311-03RR1  
 Lab File ID: GC24-74-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	1077	238	1260	5.39	22.4	
3	12.58	188.7				6.76	1020	U
4	12.67	188.7	138	5.77	30.6	0.362	1.31	
5	13.29	223.1	3218	191	857	1.37	6.34	
6	14.12	223.1	787	1.03	4.63	0.0735	0.224	
7	14.43	223.1	542	1.42	6.35	0.161	0.354	
8	14.62	223.1	3161	5.77	25.8	0.553	2.61	
9	15.18	223.1				0.300	25.5	U
10	15.25	257.5	1153	21.2	82.4	0.616	1.04	
11	15.72	257.5				0.203	25.5	U
12	15.78	223.1				0.313	25.5	U
13	15.95	223.1	86	0.170	0.761	0.0570	0.0995	
14	16.11	249.0	1297	2.44	9.79	0.131	0.690	
15	16.19	257.5	1525	5.23	20.3	0.146	0.690	B
16	16.48	257.5	629	7.05	27.4	0.382	0.485	
17	16.77	257.5	2023	3.86	15.0	0.169	0.727	
19	17.19	267.9	681	1.12	4.19	0.131	25.5	J
20	17.37	257.5				0.0110	0.0198	U
21	17.50	257.5	1612	2.39	9.30	0.0618	0.134	B
22	17.58	257.5	516	0.586	2.28	0.0434	0.0597	B
23	17.77	257.5	2828	3.23	12.6	0.497	0.769	
24	17.81	257.5	893	0.730	2.83	0.215	0.984	J
25	18.21	259.5	2016	2.70	10.4	0.107	0.741	
26	18.40	258.7	724	0.929	3.59	0.122	0.541	
27	18.62	292.0	710	0.938	3.21	0.0374	0.166	B
28	18.77	257.5				0.383	25.5	U
29	18.91	292.0	128	0.184	0.630	0.129	0.129	
30	19.03	257.5				0.123	25.5	U
31	19.20	292.0	2388	4.15	14.2	0.208	0.889	
32	19.36	292.0	2180	1.91	6.55	0.0998	0.429	
33	19.48	292.0	2113	1.34	4.60	0.0669	0.186	
34	19.52	292.0	450	0.343	1.18	0.0590	0.186	
35	19.68	292.0				0.209	25.5	U
36	19.76	257.5				0.147	25.5	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	632	0.457	1.57	0.164	0.802	J
38	20.06	272.4	996	1.31	4.81	0.117	0.485	
39	20.40	292.0	1552	1.20	4.13	0.124	0.765	
41	20.57	326.4	240	0.374	1.15	0.117	25.5	J
42	20.66	292.0	173	0.194	0.663	0.0988	0.175	
43	20.91	298.9	233	0.262	0.876	0.156	25.5	J
44	21.11	298.9	144	0.109	0.364	0.0230	0.0410	
45	21.24	292.0	484	0.371	1.27	0.0305	0.0392	
46	21.41	292.0	602	0.264	0.905	0.0838	0.354	J
47	21.54	292.0	511	0.199	0.680	0.167	0.634	J
48	21.72	293.5	1592	1.40	4.78	0.248	1.34	
49	21.96	324.7	373	0.343	1.06	0.0384	0.0951	
50	22.26	292.0	717			0.367	0.653	U
51	22.52	326.4	806	1.59	4.87	0.0906	0.336	
52	22.63	326.4	112	0.107	0.327	0.0392	0.0392	B
53	22.75	326.4	689	0.579	1.77	0.0705	0.336	
54	22.95	326.4	488	0.264	0.810	0.103	0.138	
55	23.22	326.4	74	0.0277	0.0848	0.00657	0.0105	
56	23.31	326.4	223	0.222	0.679	0.0660	0.0660	
57	23.54	326.4	373	0.246	0.753	0.0444	0.104	B
58	23.71	326.4	438	0.320	0.982	0.0859	0.216	
59	23.86	326.4	195	0.114	0.349	0.0494	0.131	J
60	24.00	360.9	214	0.123	0.341	0.0787	0.140	J
61	24.11	326.4	950	0.770	2.36	0.0682	0.397	
62	24.39	360.9				0.115	25.5	U
63	24.48	326.4	82	0.0664	0.203	0.0205	0.0820	J
64	24.78	360.9	346	0.202	0.559	0.0529	0.317	J
65	24.91	350.5	210	0.0925	0.264	0.0152	0.0541	
66	25.01	360.9	63	0.0839	0.232	0.0552	0.112	J
67	25.04	336.8	148	0.137	0.406	0.0356	0.0485	
68	25.17	326.4	35			0.128	25.5	U
69	25.23	337.5	774	0.339	1.00	0.0957	0.746	J
70	25.33	360.9				0.0846	25.5	U
71	25.62	347.8	98	0.0668	0.192	0.0355	0.0377	
72	25.83	336.8	93	0.0402	0.119	0.00651	0.0109	
73	26.09	360.9	272	0.187	0.519	0.0327	0.0727	
74	26.21	347.8	442	0.228	0.656	0.0736	0.253	J
75	26.36	360.9	573	0.184	0.511	0.111	0.549	J
76	26.47	360.9				0.109	25.5	U
77	26.85	360.9	25			0.0650	0.317	U
78	26.92	395.3	45			0.0480	0.272	U
79	27.13	360.9	7			0.0511	0.0511	U
80	27.27	360.9	102	0.0245	0.0678	0.0154	0.0485	J
82	27.52	360.9	652	0.257	0.713	0.110	0.503	J
83	27.66	360.9	32			0.0459	0.0466	U
84	27.88	360.9	10			0.00316	0.00483	U
85	28.22	395.3	116	0.0987	0.250	0.0691	0.205	J
87	28.51	395.3				0.0160	0.0746	U
88	28.65	395.3	203			0.104	0.671	U
89	28.75	360.9	77	0.0393	0.109	0.0203	0.0373	
90	28.93	395.3	73			0.0692	0.317	U
91	29.19	360.9	23			0.0355	0.0355	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0229	0.0876	U
93	29.89	394.3	99			0.104	0.597	U
94	30.16	394.3	70			0.0955	0.317	U
95	30.42	382.2	43			0.0889	0.147	U
96	30.72	429.8	69			0.00961	0.0123	U
98	30.85	395.3				0.0136	0.0142	U
99	31.21	429.8				0.0881	0.0881	U
100	31.45	395.3				0.129	0.129	U
101	31.71	429.8				0.222	0.222	U
102	31.91	395.3	179			0.153	1.14	U
103	32.15	395.3				0.0653	0.0783	U
104	32.45	395.3				0.0382	0.0447	U
105	32.82	429.8	94	0.0600	0.140	0.0470	0.0802	J
106	33.90	395.3				0.0549	0.239	U
107	34.15	395.3				0.0217	0.0783	U
108	34.98	429.8				0.0330	0.0447	U
109	35.22	429.8				0.118	0.783	U
110	35.74	429.8				0.188	0.802	U
111	36.86	395.3				0.0235	0.0235	U
112	38.35	429.8				0.0375	0.103	U
113	38.85	464.2				0.0447	0.0921	U
114	39.76	464.2				0.0157	0.0347	U
115	41.12	429.8				0.0988	0.336	U
116	41.98	429.8				0.0855	0.0855	U
117	46.94	464.2				0.0391	0.127	U
118	52.76	498.6				0.0128	0.0128	U

Total Concentration = 516 ng/L

16.2 60.0

Total Nanomoles = 2.457

Average Molecular Weight = 210.2

Number of Calibrated Peaks Found = 79

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 140765.9

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 01:33:27  
 Lab Sample ID: AM06247RR1  
 LRF ID: 09050311-03RR1  
 Lab File ID: GC24-74-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	46.014	51.255
3	12.58	1:0	002		3	-	-
4	12.67	1:0	003	0.2790	4	1.118	1.245
5	13.29	2:2	004 010	0.2927	2-2; 26	37.045	34.901
6	14.12	2:1	007 009	0.3109	24; 25	0.200	0.188
7	14.43	2:1	006	0.3178	2-3	0.275	0.259
8	14.62	2:1	005 008	0.3220	23; 2-4	1.117	1.052
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	4.108	3.353
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.95	2:0	012 013	0.3512	34; 3-4	0.033	0.031
14	16.11	2:0 3:2	015 018	0.3548	4-4; 25-2	0.472	0.399
15	16.19	3:2	017	0.3565	24-2	1.014	0.827
16	16.48	3:2	024 027	0.3629	236; 26-3	1.366	1.115
17	16.77	3:2	016 032	0.3693	23-2; 26-4	0.747	0.610
19	17.19	3:1 4:4	023 034 054	0.3786	235; 35-2; 26-26	0.217	0.170
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026	0.3854	25-3	0.464	0.378
22	17.58	3:1	025	0.3871	24-3	0.113	0.093
23	17.77	3:1	031	0.3913	25-4	0.626	0.511
24	17.81	3:1 4:3	028 050	0.3922	24-4; 246-2	0.141	0.115
25	18.21	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	0.523	0.423
26	18.40	3:1 4:3	022 051	0.4052	23-4; 24-26	0.180	0.146
27	18.62	4:3	045	0.4100	236-2	0.182	0.131
28	18.77	3:0	036		35-3	-	-
29	18.91	4:3	046	0.4164	23-26	0.036	0.026
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4228	25-25; 246-3; 26-35	0.804	0.579
32	19.36	4:2	043 049	0.4263	235-2; 24-25	0.371	0.267
33	19.48	4:2	038 047	0.4290	345; 24-24	0.260	0.187
34	19.52	4:2	048 075	0.4299	245-2; 246-4	0.066	0.048
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044	0.4389	246-26; 23-25	0.089	0.064
38	20.06	3:0 4:2	037 042 059	0.4418	34-4; 23-24; 236-3	0.254	0.196
39	20.40	4:2	041 064 071 072	0.4492	234-2; 236-4; 26-34; 25-35	0.233	0.168

DB-1 Peak <sup>1</sup>	Retention						Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>		Percent	Percent
41	20.57	5:4	068 096	0.4530	24-35; 236-26		0.072	0.047
42	20.66	4:2	040	0.4550	23-23		0.037	0.027
43	20.91	4:1 5:3	057 103	0.4605	235-3; 246-25		0.051	0.036
44	21.11	4:1 5:3	058 067 100	0.4649	23-35; 245-3; 246-24		0.021	0.015
45	21.24	4:1	063	0.4677	235-4		0.072	0.052
46	21.41	4:1 5:3	074 094 061	0.4715	245-4; 235-26; 2345		0.051	0.037
47	21.54	4:1	070	0.4743	25-34		0.038	0.028
48	21.72	4:1 5:3	066 076 098 080 093 095 102 088	0.4783	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2		0.272	0.195
49	21.96	4:1 5:3	055 091 121	0.4836	234-3; 236-24; 246-35		0.067	0.043
50	22.26	4:1	056 060		23-34; 234-4		-	-
51	22.52	5:3 6:4	084 092 155	0.4959	236-23; 235-25; 246-246		0.308	0.198
52	22.63	5:3	089	0.4983	234-26		0.021	0.013
53	22.75	5:2	090 101	0.5010	235-24; 245-25		0.112	0.072
54	22.95	5:2	079 099 113	0.5054	34-35; 245-24; 236-35		0.051	0.033
55	23.22	5:2 6:4	119 150	0.5113	246-34; 236-246		0.005	0.003
56	23.31	5:2	078 083 112 108	0.5133	345-3; 235-23; 2356-3; 2346-3		0.043	0.028
57	23.54	5:2 6:4	097 152 086	0.5184	245-23; 2356-26; 2345-2		0.048	0.031
58	23.71	5:2	081 087 117 125 115 145	0.5221	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26		0.062	0.040
59	23.86	5:2	116 085 111	0.5254	23456; 234-24; 235-35		0.022	0.014
60	24.00	6:4	120 136	0.5285	245-35; 236-236		0.024	0.014
61	24.11	5:2	077 110 148	0.5309	34-34; 236-34; 235-246		0.149	0.096
62	24.39	6:3	154		245-246		-	-
63	24.48	5:2	082	0.5391	234-23		0.013	0.008
64	24.78	6:3	151	0.5457	2356-25		0.039	0.023
65	24.91	5:1 6:3	124 135	0.5486	345-25; 235-236		0.018	0.011
66	25.01	6:3	144	0.5508	2346-25		0.016	0.009
67	25.04	5:1 6:3	107 109 147	0.5514	234-35; 235-34; 2356-24		0.026	0.017
68	25.17	5:1	123		345-24		-	-
69	25.23	5:1 6:3	106 118 139 149	0.5556	2345-3; 245-34; 2346-24; 236-245		0.066	0.041
70	25.33	6:3	140		234-246		-	-
71	25.62	5:1 6:3	114 134 143	0.5642	2345-4; 2356-23; 2345-26		0.013	0.008
72	25.83	5:1 6:3	122 131 133 142	0.5688	345-23; 2346-23; 235-235; 23456-2		0.008	0.005
73	26.09	6:2	146 165 188	0.5745	235-245; 2356-35; 2356-246		0.036	0.021
74	26.21	5:1 6:3	105 132 161	0.5772	234-34; 234-236; 2346-35		0.044	0.027
75	26.36	6:2	153	0.5805	245-245		0.036	0.021
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246		-	-
77	26.85	6:2	141		2345-25		-	-
78	26.92	7:4	179		2356-236		-	-
79	27.13	6:2	137		2345-24		-	-
80	27.27	6:2 7:4	130 176	0.6005	234-235; 2346-236		0.005	0.003
82	27.52	6:2	138 163 164	0.6060	234-245; 2356-34; 236-345		0.050	0.029
83	27.66	6:2	158 160 186		2346-34; 23456-3; 23456-26		-	-
84	27.88	6:2	126 129		345-34; 2345-23		-	-
85	28.22	7:3	166 178	0.6214	23456-4; 2356-235		0.019	0.010
87	28.51	7:3	175 159		2346-235; 2345-35		-	-
88	28.65	7:3	182 187		2345-246; 2356-245		-	-
89	28.75	6:2	128 162	0.6331	234-234; 235-345		0.008	0.004
90	28.93	7:3	183		2346-245		-	-
91	29.19	6:1	167		245-345		-	-
92	29.53	7:3	185		23456-25		-	-
93	29.89	7:3	174 181		2345-236; 23456-24		-	-
94	30.16	7:3	177		2356-234		-	-
95	30.42	6:1 7:3	156 171		2345-34; 2346-234		-	-
96	30.72	8:4	157 202		234-345; 2356-2356		-	-
98	30.85	7:3	173		23456-23		-	-
99	31.21	8:4	201		2346-2356		-	-
100	31.45	7:2	172 204		2345-235; 23456-246		-	-
101	31.71	8:4	192 197		23456-35; 2346-2346		-	-
102	31.91	7:2	180		2345-245		-	-
103	32.15	7:2	193		2356-345		-	-
104	32.45	7:2	191		2346-345		-	-
105	32.82	8:4	200 169	0.7227	23456-236; 345-345		0.012	0.006
106	33.90	7:2	170		2345-234		-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 516 ng/L

Total Nanomoles = 2.457

Average Molecular Weight = 210.2

Number of Calibrated Peaks Found = 79

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

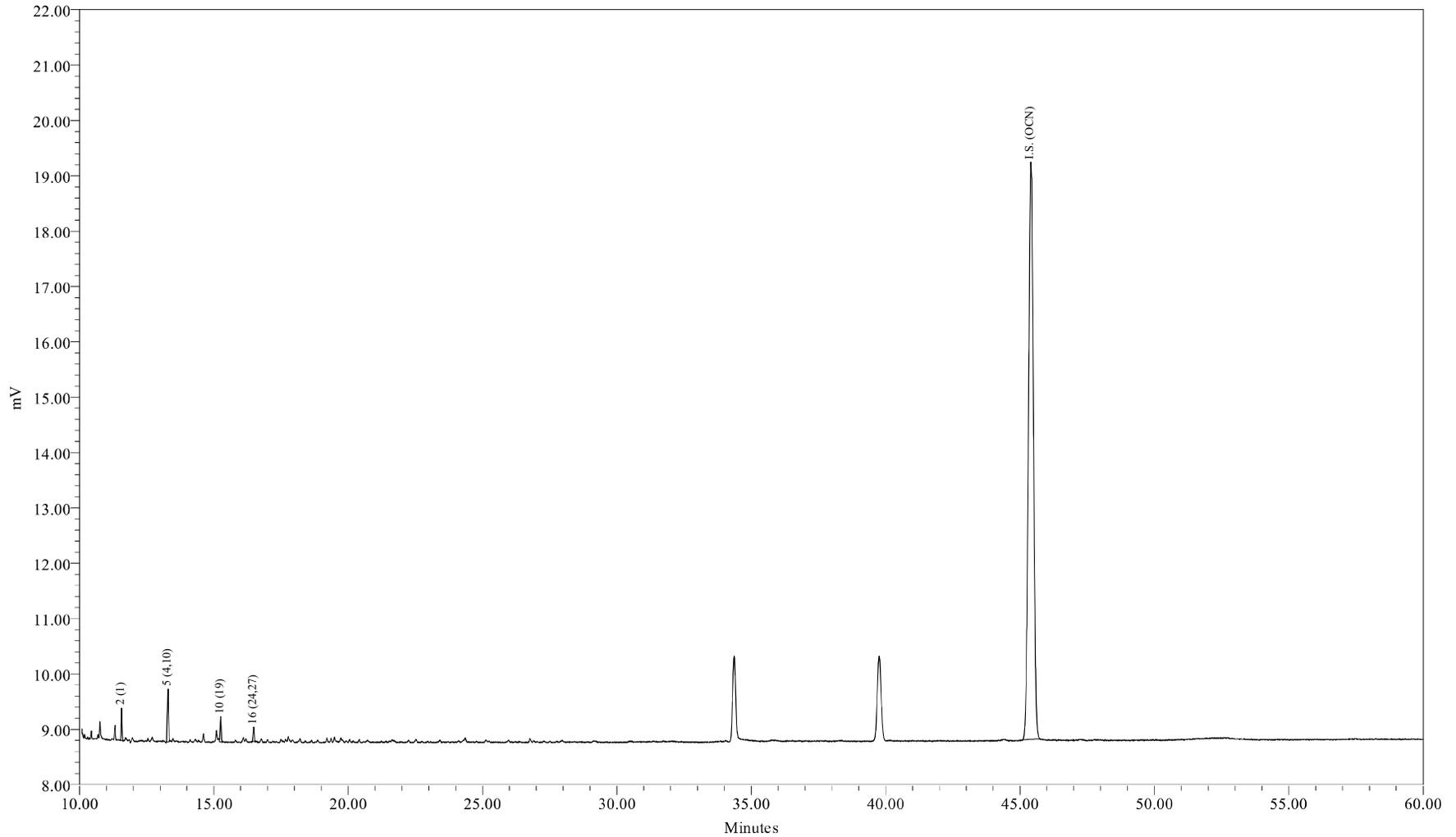
<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Sample Name: AM06247DL2  
Sample ID: WFF-SCHU-090527-BT003  
Date Acquired: 06/02/2009 07:01:29 EDT

Sample Amount (L) : 0.9800  
Dilution: 50  
Processing Method: CSG\_B\_LL1X\_051909  
LIMS File ID: GC24-74-14

Sample Name: AM06247DL2

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 07:01:29  
 Lab Sample ID: AM06247DL2  
 LRF ID: 09050311-03DL2  
 Lab File ID: GC24-74-14

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 457 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	51.97	56.56
Di	41.84	38.51
Tri	6.18	4.93
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	237.6078	100	100
A1242	23+24/31+28		0	0
A1254SED	61/100		0	
A1254BIO	69+75+82/149+153+138			0
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.47

Meta + Para Cl / biphenyl Residue = 0.01

Total Cl / biphenyl Residue = 1.48

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 07:01:29  
 Lab Sample ID: AM06247DL2  
 LRF ID: 09050311-03DL2  
 Lab File ID: GC24-74-14

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	1077	238	1260	5.39	22.4	
3	12.58	188.7				67.6	10200	U
4	12.68	188.7				3.62	13.1	U
5	13.29	223.1	3218	191	857	1.37	6.34	
6	14.13	223.1				0.735	2.24	U
7	14.44	223.1				1.61	3.54	U
8	14.62	223.1				5.53	26.1	U
9	15.18	223.1				3.00	255	U
10	15.25	257.5	1153	21.2	82.4	0.616	1.04	
11	15.72	257.5				2.03	255	U
12	15.78	223.1				3.13	255	U
13	15.98	223.1				0.570	0.995	U
14	16.11	249.0				1.31	6.90	U
15	16.19	257.5				1.46	6.90	U
16	16.48	257.5	629	7.05	27.4	0.382	0.485	
17	16.75	257.5				1.69	7.27	U
19	17.20	267.9				1.31	255	U
20	17.37	257.5				0.110	0.198	U
21	17.50	257.5				0.618	1.34	U
22	17.58	257.5				0.434	0.597	U
23	17.78	257.5				4.97	7.69	U
24	17.82	257.5				2.15	9.84	U
25	18.17	259.5				1.07	7.41	U
26	18.41	258.7				1.22	5.41	U
27	18.63	292.0				0.374	1.66	U
28	18.77	257.5				3.83	255	U
29	18.91	292.0				1.29	1.29	U
30	19.03	257.5				1.23	255	U
31	19.20	292.0				2.08	8.89	U
32	19.37	292.0				0.998	4.29	U
33	19.48	292.0				0.669	1.86	U
34	19.54	292.0				0.590	1.86	U
35	19.68	292.0				2.09	255	U
36	19.76	257.5				1.47	255	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0				1.64	8.02	U
38	20.06	272.4				1.17	4.85	U
39	20.41	292.0				1.24	7.65	U
41	20.57	326.4				1.17	255	U
42	20.67	292.0				0.988	1.75	U
43	20.92	298.9				1.56	255	U
44	21.09	298.9				0.230	0.410	U
45	21.25	292.0				0.305	0.392	U
46	21.41	292.0				0.838	3.54	U
47	21.55	292.0				1.67	6.34	U
48	21.66	293.5				2.48	13.4	U
49	21.96	324.7				0.384	0.951	U
50	22.26	292.0				3.67	6.53	U
51	22.51	326.4				0.906	3.36	U
52	22.61	326.4				0.392	0.392	U
53	22.76	326.4				0.705	3.36	U
54	22.95	326.4				1.03	1.38	U
55	23.23	326.4				0.0657	0.105	U
56	23.33	326.4				0.660	0.660	U
57	23.54	326.4				0.444	1.04	U
58	23.71	326.4				0.859	2.16	U
59	23.86	326.4				0.494	1.31	U
60	23.99	360.9				0.787	1.40	U
61	24.12	326.4				0.682	3.97	U
62	24.39	360.9				1.15	255	U
63	24.48	326.4				0.205	0.820	U
64	24.78	360.9				0.529	3.17	U
65	24.92	350.5				0.152	0.541	U
66	24.98	360.9				0.552	1.12	U
67	25.04	336.8				0.356	0.485	U
68	25.13	326.4				1.28	255	U
69	25.22	337.5				0.957	7.46	U
70	25.33	360.9				0.846	255	U
71	25.62	347.8				0.355	0.377	U
72	25.82	336.8				0.0651	0.109	U
73	26.08	360.9				0.327	0.727	U
74	26.20	347.8				0.736	2.53	U
75	26.36	360.9				1.11	5.49	U
76	26.47	360.9				1.09	255	U
77	26.87	360.9				0.650	3.17	U
78	26.94	395.3				0.480	2.72	U
79	27.13	360.9				0.511	0.511	U
80	27.29	360.9				0.154	0.485	U
82	27.51	360.9				1.10	5.03	U
83	27.68	360.9				0.459	0.466	U
84	27.88	360.9				0.0316	0.0483	U
85	28.21	395.3				0.691	2.05	U
87	28.51	395.3				0.160	0.746	U
88	28.65	395.3				1.04	6.71	U
89	28.76	360.9				0.203	0.373	U
90	28.94	395.3				0.692	3.17	U
91	29.19	360.9				0.355	0.355	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.229	0.876	U
93	29.89	394.3				1.04	5.97	U
94	30.15	394.3				0.955	3.17	U
95	30.43	382.2				0.889	1.47	U
96	30.69	429.8				0.0961	0.123	U
98	30.85	395.3				0.136	0.142	U
99	31.21	429.8				0.881	0.881	U
100	31.45	395.3				1.29	1.29	U
101	31.71	429.8				2.22	2.22	U
102	31.90	395.3				1.53	11.4	U
103	32.15	395.3				0.653	0.783	U
104	32.45	395.3				0.382	0.447	U
105	32.78	429.8				0.470	0.802	U
106	33.90	395.3				0.549	2.39	U
107	34.15	395.3				0.217	0.783	U
108	34.98	429.8				0.330	0.447	U
109	35.22	429.8				1.18	7.83	U
110	35.74	429.8				1.88	8.02	U
111	36.86	395.3				0.235	0.235	U
112	38.35	429.8				0.375	1.03	U
113	38.85	464.2				0.447	0.921	U
114	39.76	464.2				0.157	0.347	U
115	41.12	429.8				0.988	3.36	U
116	41.98	429.8				0.855	0.855	U
117	46.94	464.2				0.391	1.27	U
118	52.76	498.6				0.128	0.128	U

Total Concentration = 457 ng/L

92.9

328

Total Nanomoles = 2.226

Average Molecular Weight = 205.3

Number of Calibrated Peaks Found = 4

Internal Standard Retention Time = 45.40 minutes

Internal Standard Peak Area = 134002.4

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 07:01:29  
 Lab Sample ID: AM06247DL2  
 LRF ID: 09050311-03DL2  
 Lab File ID: GC24-74-14

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	51.974	56.558
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.29	2:2	004 010	0.2927	2-2; 26	41.843	38.512
6	14.13	2:1	007 009		24; 25	-	-
7	14.44	2:1	006		2-3	-	-
8	14.62	2:1	005 008		23; 2-4	-	-
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3359	26-2	4.640	3.700
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.19	3:2	017		24-2	-	-
16	16.48	3:2	024 027	0.3630	236; 26-3	1.543	1.230
17	16.75	3:2	016 032		23-2; 26-4	-	-
19	17.20	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026		25-3	-	-
22	17.58	3:1	025		24-3	-	-
23	17.78	3:1	031		25-4	-	-
24	17.82	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.17	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.41	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.63	4:3	045		236-2	-	-
28	18.77	3:0	036		35-3	-	-
29	18.91	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.37	4:2	043 049		235-2; 24-25	-	-
33	19.48	4:2	038 047		345; 24-24	-	-
34	19.54	4:2	048 075		245-2; 246-4	-	-
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.06	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.41	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096		24-35; 236-26	-	-
42	20.67	4:2	040		23-23	-	-
43	20.92	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.09	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.25	4:1	063		235-4	-	-
46	21.41	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.55	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.96	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.26	4:1	056 060		23-34; 234-4	-	-
51	22.51	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.61	5:3	089		234-26	-	-
53	22.76	5:2	090 101		235-24; 245-25	-	-
54	22.95	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.23	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.33	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.54	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.71	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.86	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.99	6:4	120 136		245-35; 236-236	-	-
61	24.12	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082		234-23	-	-
64	24.78	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.98	6:3	144		2346-25	-	-
67	25.04	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.13	5:1	123		345-24	-	-
69	25.22	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.20	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 457 ng/L

Total Nanomoles = 2.226

Average Molecular Weight = 205.3

Number of Calibrated Peaks Found = 4

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050311
ELAP ID No:	11078	LRF ID:	09050311-04RR1
Matrix:	Water	Client ID:	WFF-STWA-090527-BT001
Sample Wt(Dry)/Vol:	1060 mL	Lab Sample ID:	AM06248RR1
% Moisture:	100	Lab File ID:	GC24-74-10
Extraction:	Solid Phase Extraction - 1L	Date Received:	05/29/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	06/02/2009 02:39
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:		

OCN (I.S.) Peak Area: 140836

Percent Recovery (50 - 150 %): 122

SAMPLE TOTAL PCB CONCENTRATION: 74.9 ng/L

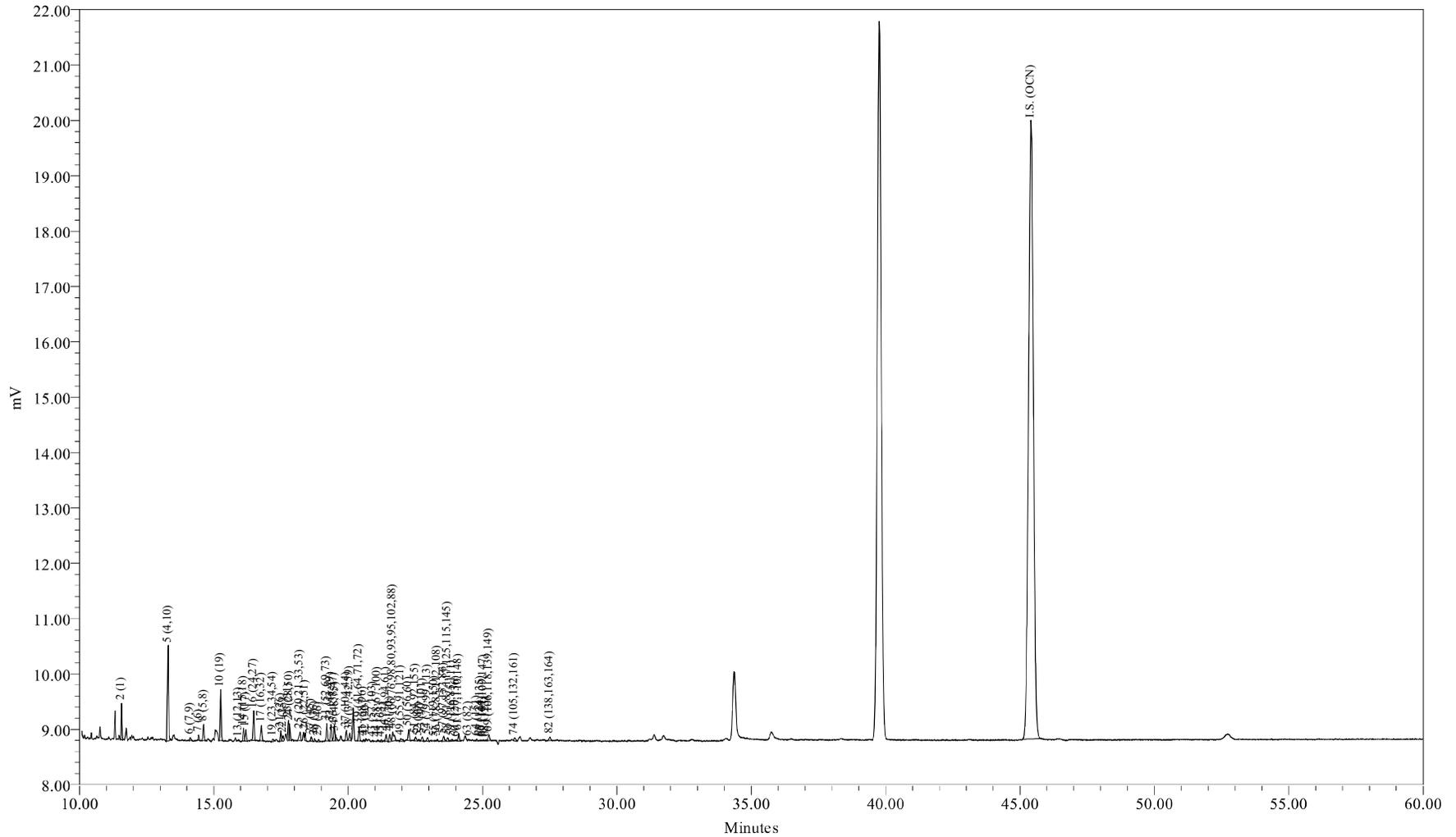
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM06248RR1  
Sample ID: WFF-ST WA-090527-BT001  
Date Acquired: 06/02/2009 02:39:02 EDT

Sample Amount (L) : 1.0600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-74-10

Sample Name: AM06248RR1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-STWA-090527-BT001  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 02:39:02  
 Lab Sample ID: AM06248RR1  
 LRF ID: 09050311-04RR1  
 Lab File ID: GC24-74-10

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 74.9 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	30.46	35.77
Di	42.42	42.10
Tri	17.34	14.92
Tetra	6.94	5.29
Penta	2.72	1.85
Hexa	0.11	0.07
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	22.8261	92.7	93.3
A1242	23+24/31+28	1.5309	6.22	6.26
A1254SED	61/100	0.2687	1.09	
A1254BIO	69+75+82/149+153+138	0.0968		0.396
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.62

Meta + Para Cl / biphenyl Residue = 0.34

Total Cl / biphenyl Residue = 1.96

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-STWA-090527-BT001  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 02:39:02  
 Lab Sample ID: AM06248RR1  
 LRF ID: 09050311-04RR1  
 Lab File ID: GC24-74-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	1175	22.8	121	0.529	2.19	
3	12.58	188.7				6.63	1000	U
4	12.68	188.7				0.355	1.28	U
5	13.30	223.1	5699	29.8	134	0.134	0.621	
6	14.12	223.1	187	0.198	0.886	0.0721	0.219	J
7	14.43	223.1	200	0.432	1.94	0.158	0.347	
8	14.62	223.1	721	1.01	4.53	0.542	2.56	J
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	2349	3.79	14.7	0.0604	0.102	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.93	223.1	43	0.0884	0.396	0.0559	0.0975	J
14	16.11	249.0	617	0.919	3.69	0.128	0.676	
15	16.19	257.5	575	1.74	6.78	0.143	0.676	B
16	16.49	257.5	1373	1.36	5.30	0.0374	0.0475	
17	16.77	257.5	841	1.38	5.37	0.166	0.713	
19	17.20	267.9	148	0.225	0.838	0.128	25.0	J
20	17.37	257.5				0.0108	0.0194	U
21	17.50	257.5	586	0.800	3.11	0.0606	0.132	B
22	17.58	257.5	295	0.309	1.20	0.0426	0.0585	B
23	17.77	257.5	1053	0.936	3.63	0.487	0.753	
24	17.82	257.5	816	0.595	2.31	0.211	0.964	J
25	18.21	259.5	590	0.598	2.30	0.105	0.726	J
26	18.40	258.7	392	0.396	1.53	0.120	0.530	J
27	18.63	292.0	209	0.247	0.847	0.0367	0.163	B
28	18.75	257.5	122			0.375	25.0	U
29	18.90	292.0	119	0.157	0.538	0.127	0.127	
30	19.03	257.5				0.120	25.0	U
31	19.20	292.0	956	1.39	4.75	0.204	0.872	
32	19.36	292.0	922	0.691	2.37	0.0978	0.420	
33	19.48	292.0	924	0.524	1.80	0.0656	0.183	
34	19.52	292.0	296	0.188	0.643	0.0579	0.183	
35	19.68	292.0				0.205	25.0	U
36	19.76	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	576	0.361	1.24	0.160	0.786	J
38	20.06	272.4	467	0.492	1.80	0.115	0.475	J
39	20.40	292.0	817	0.490	1.68	0.121	0.749	J
41	20.58	326.4	87	0.126	0.386	0.115	25.0	J
42	20.66	292.0	115	0.120	0.411	0.0968	0.172	J
43	20.92	298.9	51			0.152	25.0	U
44	21.09	298.9	96	0.0674	0.225	0.0225	0.0402	U
45	21.24	292.0	99	0.0688	0.236	0.0299	0.0384	U
46	21.41	292.0	384	0.119	0.407	0.0821	0.347	J
47	21.55	292.0	402			0.164	0.621	U
48	21.66	293.5	841	0.480	1.64	0.243	1.32	J
49	21.96	324.7	305	0.255	0.785	0.0376	0.0932	U
50	22.26	292.0	645			0.359	0.640	U
51	22.51	326.4	267	0.476	1.46	0.0888	0.329	U
52	22.62	326.4	82	0.0711	0.218	0.0384	0.0384	B
53	22.76	326.4	273	0.175	0.538	0.0691	0.329	J
54	22.95	326.4	214			0.101	0.135	U
55	23.23	326.4	16			0.00644	0.0102	U
56	23.31	326.4	90	0.0849	0.260	0.0647	0.0647	U
57	23.55	326.4	357	0.217	0.665	0.0435	0.102	B
58	23.70	326.4	240	0.146	0.447	0.0841	0.212	J
59	23.86	326.4	131	0.0654	0.200	0.0484	0.128	J
60	24.02	360.9	81			0.0772	0.137	U
61	24.11	326.4	438	0.269	0.823	0.0668	0.389	J
62	24.39	360.9				0.113	25.0	U
63	24.47	326.4	72	0.0540	0.166	0.0201	0.0804	J
64	24.79	360.9	115			0.0518	0.311	U
65	24.93	350.5	46			0.0149	0.0530	U
66	24.99	360.9	34			0.0541	0.110	U
67	25.04	336.8	65	0.0507	0.150	0.0348	0.0475	U
68	25.12	326.4	40			0.125	25.0	U
69	25.24	337.5	424			0.0938	0.731	U
70	25.33	360.9				0.0829	25.0	U
71	25.62	347.8				0.0348	0.0369	U
72	25.82	336.8				0.00638	0.0106	U
73	26.08	360.9				0.0320	0.0713	U
74	26.19	347.8	253	0.113	0.325	0.0721	0.248	J
75	26.36	360.9				0.109	0.538	U
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.29	360.9				0.0151	0.0475	U
82	27.51	360.9	316			0.108	0.493	U
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3				0.0677	0.201	U
87	28.51	395.3				0.0156	0.0731	U
88	28.65	395.3				0.102	0.658	U
89	28.76	360.9				0.0199	0.0366	U
90	28.94	395.3				0.0679	0.311	U
91	29.19	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.89	394.3				0.102	0.585	U
94	30.15	394.3				0.0936	0.311	U
95	30.43	382.2				0.0871	0.144	U
96	30.69	429.8				0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.90	395.3				0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = 74.9 ng/L

9.10 32.2

Total Nanomoles = 0.338

Average Molecular Weight = 221.6

Number of Calibrated Peaks Found = 58

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 140836.1

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-STWA-090527-BT001  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 02:39:02  
 Lab Sample ID: AM06248RR1  
 LRF ID: 09050311-04RR1  
 Lab File ID: GC24-74-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	30.457	35.766
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.30	2:2	004 010	0.2929	2-2; 26	39.809	39.540
6	14.12	2:1	007 009	0.3109	24; 25	0.264	0.262
7	14.43	2:1	006	0.3178	2-3	0.577	0.573
8	14.62	2:1	005 008	0.3220	23; 2-4	1.348	1.339
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	5.058	4.352
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.93	2:0	012 013	0.3508	34; 3-4	0.118	0.117
14	16.11	2:0 3:2	015 018	0.3548	4-4; 25-2	1.226	1.091
15	16.19	3:2	017	0.3565	24-2	2.328	2.004
16	16.49	3:2	024 027	0.3631	236; 26-3	1.819	1.566
17	16.77	3:2	016 032	0.3693	23-2; 26-4	1.846	1.589
19	17.20	3:1 4:4	023 034 054	0.3788	235; 35-2; 26-26	0.300	0.248
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026	0.3854	25-3	1.067	0.918
22	17.58	3:1	025	0.3871	24-3	0.413	0.355
23	17.77	3:1	031	0.3913	25-4	1.248	1.074
24	17.82	3:1 4:3	028 050	0.3924	24-4; 246-2	0.794	0.684
25	18.21	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	0.797	0.681
26	18.40	3:1 4:3	022 051	0.4052	23-4; 24-26	0.528	0.453
27	18.63	4:3	045	0.4103	236-2	0.330	0.250
28	18.75	3:0	036		35-3	-	-
29	18.90	4:3	046	0.4162	23-26	0.210	0.159
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4228	25-25; 246-3; 26-35	1.849	1.403
32	19.36	4:2	043 049	0.4263	235-2; 24-25	0.922	0.700
33	19.48	4:2	038 047	0.4290	345; 24-24	0.700	0.531
34	19.52	4:2	048 075	0.4299	245-2; 246-4	0.250	0.190
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044	0.4389	246-26; 23-25	0.482	0.365
38	20.06	3:0 4:2	037 042 059	0.4418	34-4; 23-24; 236-3	0.656	0.534
39	20.40	4:2	041 064 071 072	0.4492	234-2; 236-4; 26-34; 25-35	0.653	0.496

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
41	20.58	5:4	068 096	0.4532	24-35; 236-26	0.168	0.114
42	20.66	4:2	040	0.4550	23-23	0.160	0.122
43	20.92	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.09	4:1 5:3	058 067 100	0.4644	23-35; 245-3; 246-24	0.090	0.067
45	21.24	4:1	063	0.4677	235-4	0.092	0.070
46	21.41	4:1 5:3	074 094 061	0.4715	245-4; 235-26; 2345	0.159	0.120
47	21.55	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4770	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.641	0.484
49	21.96	4:1 5:3	055 091 121	0.4836	234-3; 236-24; 246-35	0.340	0.232
50	22.26	4:1	056 060		23-34; 234-4	-	-
51	22.51	5:3 6:4	084 092 155	0.4957	236-23; 235-25; 246-246	0.635	0.431
52	22.62	5:3	089	0.4981	234-26	0.095	0.064
53	22.76	5:2	090 101	0.5012	235-24; 245-25	0.234	0.159
54	22.95	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.23	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.31	5:2	078 083 112 108	0.5133	345-3; 235-23; 2356-3; 2346-3	0.113	0.077
57	23.55	5:2 6:4	097 152 086	0.5186	245-23; 2356-26; 2345-2	0.290	0.197
58	23.70	5:2	081 087 117 125 115 145	0.5219	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.195	0.132
59	23.86	5:2	116 085 111	0.5254	23456; 234-24; 235-35	0.087	0.059
60	24.02	6:4	120 136		245-35; 236-236	-	-
61	24.11	5:2	077 110 148	0.5309	34-34; 236-34; 235-246	0.359	0.243
62	24.39	6:3	154		245-246	-	-
63	24.47	5:2	082	0.5389	234-23	0.072	0.049
64	24.79	6:3	151		2356-25	-	-
65	24.93	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.99	6:3	144		2346-25	-	-
67	25.04	5:1 6:3	107 109 147	0.5514	234-35; 235-34; 2356-24	0.068	0.044
68	25.12	5:1	123		345-24	-	-
69	25.24	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.19	5:1 6:3	105 132 161	0.5767	234-34; 234-236; 2346-35	0.151	0.096
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 74.9 ng/L

Total Nanomoles = 0.338

Average Molecular Weight = 221.6

Number of Calibrated Peaks Found = 58

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

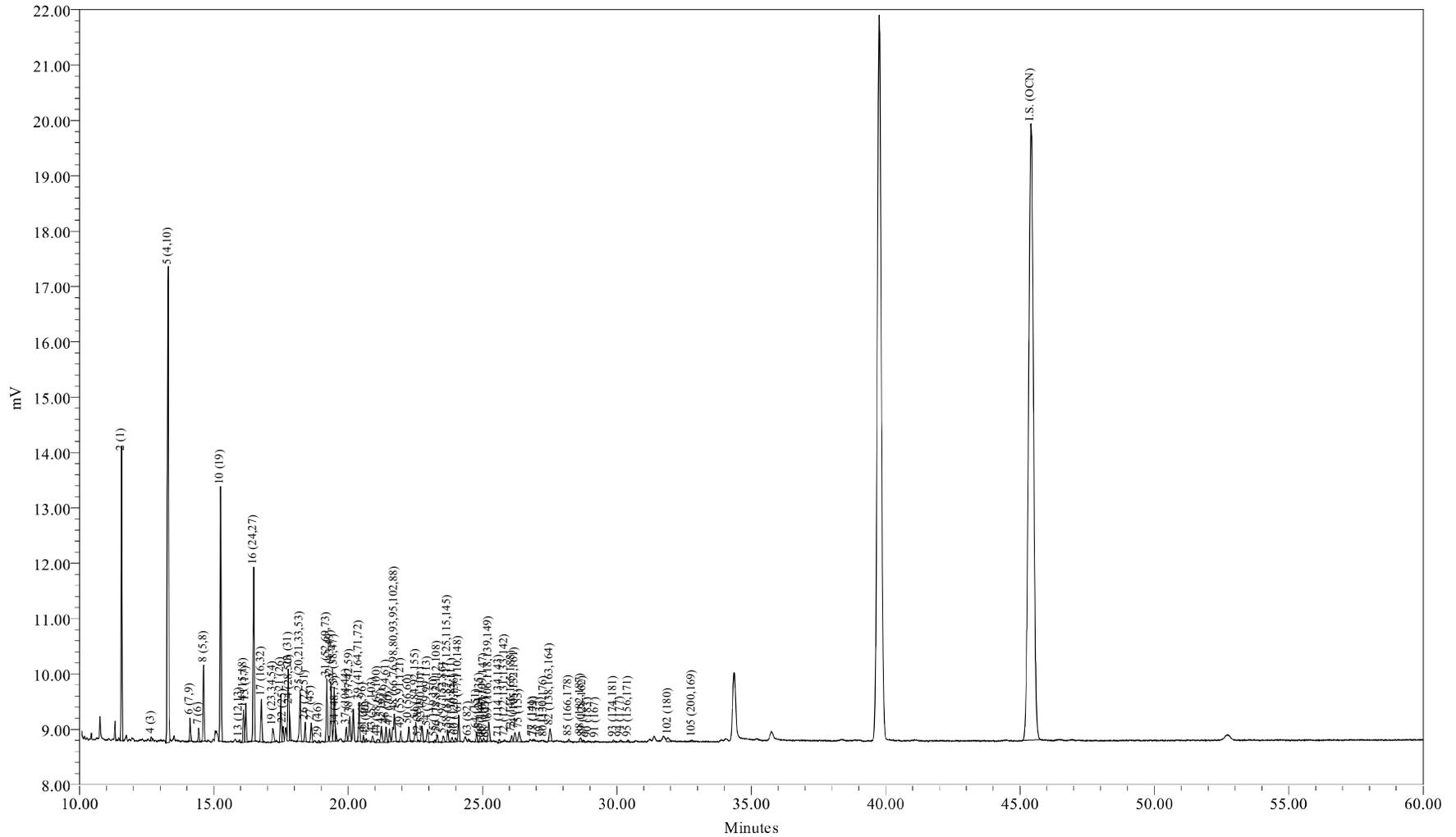
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050311
ELAP ID No:	11078	LRF ID:	09050311-05RR1
Matrix:	Water	Client ID:	WFF-THIS-090527-BT001
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM06249RR1
% Moisture:	100	Lab File ID:	GC24-74-11
Extraction:	Solid Phase Extraction - 1L	Date Received:	05/29/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	06/02/2009 03:44
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:		

OCN (I.S.) Peak Area: 141270

Percent Recovery (50 - 150 %): 122

SAMPLE TOTAL PCB CONCENTRATION: 541 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM06249RR1  
Sample ID: WFF-T HIS-090527-BT001  
Date Acquired: 06/02/2009 03:44:35 EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-74-11

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090527-BT001  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 03:44:35  
 Lab Sample ID: AM06249RR1  
 LRF ID: 09050311-05RR1  
 Lab File ID: GC24-74-11

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 541 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	44.80	50.44
Di	37.77	35.96
Tri	11.36	9.36
Tetra	3.93	2.87
Penta	1.66	1.08
Hexa	0.44	0.26
Hepta	0.03	0.01
Octa	0.01	0.01
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	235.7643	97.2	97.1
A1242	23+24/31+28	5.4374	2.24	2.24
A1254SED	61/100	1.2966	0.535	
A1254BIO	69+75+82/149+153+138	1.5187		0.626
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.47

Meta + Para Cl / biphenyl Residue = 0.22

Total Cl / biphenyl Residue = 1.69

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090527-BT001  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 03:44:35  
 Lab Sample ID: AM06249RR1  
 LRF ID: 09050311-05RR1  
 Lab File ID: GC24-74-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	1151	236	1250	5.29	21.9	
3	12.58	188.7				6.63	1000	U
4	12.67	188.7	168	6.80	36.0	0.355	1.28	
5	13.30	223.1	3528	195	873	1.34	6.21	
6	14.12	223.1	1037	1.34	6.01	0.0721	0.219	
7	14.43	223.1	584	1.50	6.71	0.158	0.347	
8	14.62	223.1	3333	5.95	26.7	0.542	2.56	
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	1269	21.7	84.1	0.604	1.02	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.95	223.1	113	0.213	0.953	0.0559	0.0975	
14	16.10	249.0	1709	3.23	13.0	0.128	0.676	
15	16.19	257.5	1906	6.42	24.9	0.143	0.676	B
16	16.48	257.5	949	9.92	38.5	0.374	0.475	
17	16.77	257.5	2260	4.23	16.4	0.166	0.713	
19	17.20	267.9	940	1.51	5.64	0.128	25.0	J
20	17.37	257.5				0.0108	0.0194	U
21	17.49	257.5	2460	3.57	13.9	0.0606	0.132	B
22	17.57	257.5	791	0.878	3.41	0.0426	0.0585	B
23	17.77	257.5	3949	4.52	17.6	0.487	0.753	
24	17.81	257.5	1080	0.915	3.55	0.211	0.964	J
25	18.21	259.5	2801	3.74	14.4	0.105	0.726	
26	18.40	258.7	1004	1.32	5.10	0.120	0.530	
27	18.63	292.0	1005	1.30	4.46	0.0367	0.163	B
28	18.77	257.5				0.375	25.0	U
29	18.90	292.0	120	0.167	0.571	0.127	0.127	
30	19.03	257.5				0.120	25.0	U
31	19.20	292.0	3427	5.93	20.3	0.204	0.872	
32	19.36	292.0	3346	2.92	10.0	0.0978	0.420	
33	19.48	292.0	3152	1.97	6.75	0.0656	0.183	
34	19.53	292.0	416	0.304	1.04	0.0579	0.183	
35	19.68	292.0				0.205	25.0	U
36	19.76	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	721	0.549	1.88	0.160	0.786	J
38	20.06	272.4	1415	1.88	6.91	0.115	0.475	
39	20.41	292.0	2226	1.78	6.10	0.121	0.749	
41	20.57	326.4	335	0.511	1.56	0.115	25.0	J
42	20.67	292.0	132	0.145	0.498	0.0968	0.172	J
43	20.91	298.9	327	0.359	1.20	0.152	25.0	J
44	21.09	298.9	284	0.208	0.697	0.0225	0.0402	
45	21.24	292.0	938	0.703	2.41	0.0299	0.0384	
46	21.41	292.0	907	0.443	1.52	0.0821	0.347	
47	21.54	292.0	696	0.335	1.15	0.164	0.621	J
48	21.72	293.5	2473	2.38	8.11	0.243	1.32	
49	21.96	324.7	615	0.569	1.75	0.0376	0.0932	
50	22.26	292.0	844	0.424	1.45	0.359	0.640	J
51	22.52	326.4	1359	2.63	8.06	0.0888	0.329	
52	22.61	326.4	77	0.0699	0.214	0.0384	0.0384	B
53	22.75	326.4	1023	0.870	2.67	0.0691	0.329	
54	22.95	326.4	780	0.429	1.31	0.101	0.135	
55	23.23	326.4	121	0.0448	0.137	0.00644	0.0102	
56	23.31	326.4	461	0.443	1.36	0.0647	0.0647	
57	23.54	326.4	439	0.284	0.871	0.0435	0.102	B
58	23.71	326.4	671	0.500	1.53	0.0841	0.212	
59	23.87	326.4	274	0.162	0.496	0.0484	0.128	
60	24.00	360.9	263	0.159	0.442	0.0772	0.137	
61	24.11	326.4	1546	1.30	3.97	0.0668	0.389	
62	24.39	360.9				0.113	25.0	U
63	24.47	326.4	117	0.0896	0.274	0.0201	0.0804	
64	24.77	360.9	524	0.345	0.955	0.0518	0.311	
65	24.91	350.5	292	0.129	0.367	0.0149	0.0530	
66	24.96	360.9	47	0.0612	0.170	0.0541	0.110	J
67	25.04	336.8	225	0.207	0.614	0.0348	0.0475	
68	25.14	326.4	35			0.125	25.0	U
69	25.23	337.5	1318	0.741	2.20	0.0938	0.731	
70	25.33	360.9				0.0829	25.0	U
71	25.61	347.8	197	0.130	0.375	0.0348	0.0369	
72	25.82	336.8	63	0.0268	0.0796	0.00638	0.0106	
73	26.08	360.9	392	0.263	0.730	0.0320	0.0713	
74	26.21	347.8	746	0.388	1.12	0.0721	0.248	
75	26.36	360.9	787	0.310	0.859	0.109	0.538	J
76	26.47	360.9				0.107	25.0	U
77	26.88	360.9	38			0.0637	0.311	U
78	26.94	395.3	59			0.0470	0.267	U
79	27.16	360.9	23			0.0501	0.0501	U
80	27.28	360.9	50			0.0151	0.0475	U
82	27.51	360.9	988	0.468	1.30	0.108	0.493	J
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3	160	0.149	0.378	0.0677	0.201	J
87	28.51	395.3				0.0156	0.0731	U
88	28.65	395.3	306			0.102	0.658	U
89	28.74	360.9	144	0.0703	0.195	0.0199	0.0366	
90	28.93	395.3	76			0.0679	0.311	U
91	29.21	360.9	57			0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.88	394.3	131			0.102	0.585	U
94	30.13	394.3	108			0.0936	0.311	U
95	30.42	382.2	128			0.0871	0.144	U
96	30.69	429.8				0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.90	395.3	453			0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.80	429.8	128	0.0809	0.188	0.0460	0.0786	
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = 541 ng/L

15.9 58.8

Total Nanomoles = 2.548

Average Molecular Weight = 212.5

Number of Calibrated Peaks Found = 76

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 141269.9

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090527-BT001  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 03:44:35  
 Lab Sample ID: AM06249RR1  
 LRF ID: 09050311-05RR1  
 Lab File ID: GC24-74-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	43.545	49.030
3	12.58	1:0	002		3	-	-
4	12.67	1:0	003	0.2790	4	1.256	1.415
5	13.30	2:2	004 010	0.2929	2-2; 26	35.959	34.245
6	14.12	2:1	007 009	0.3109	24; 25	0.248	0.236
7	14.43	2:1	006	0.3178	2-3	0.277	0.263
8	14.62	2:1	005 008	0.3220	23; 2-4	1.099	1.047
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	4.002	3.302
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.95	2:0	012 013	0.3512	34; 3-4	0.039	0.037
14	16.10	2:0 3:2	015 018	0.3545	4-4; 25-2	0.597	0.510
15	16.19	3:2	017	0.3565	24-2	1.186	0.978
16	16.48	3:2	024 027	0.3629	236; 26-3	1.832	1.512
17	16.77	3:2	016 032	0.3693	23-2; 26-4	0.782	0.645
19	17.20	3:1 4:4	023 034 054	0.3788	235; 35-2; 26-26	0.279	0.221
20	17.37	3:1	029		245	-	-
21	17.49	3:1	026	0.3852	25-3	0.659	0.544
22	17.57	3:1	025	0.3869	24-3	0.162	0.134
23	17.77	3:1	031	0.3913	25-4	0.835	0.689
24	17.81	3:1 4:3	028 050	0.3922	24-4; 246-2	0.169	0.139
25	18.21	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	0.690	0.565
26	18.40	3:1 4:3	022 051	0.4052	23-4; 24-26	0.244	0.200
27	18.63	4:3	045	0.4103	236-2	0.240	0.175
28	18.77	3:0	036		35-3	-	-
29	18.90	4:3	046	0.4162	23-26	0.031	0.022
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4228	25-25; 246-3; 26-35	1.096	0.797
32	19.36	4:2	043 049	0.4263	235-2; 24-25	0.540	0.393
33	19.48	4:2	038 047	0.4290	345; 24-24	0.364	0.265
34	19.53	4:2	048 075	0.4301	245-2; 246-4	0.056	0.041
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044	0.4389	246-26; 23-25	0.101	0.074
38	20.06	3:0 4:2	037 042 059	0.4418	34-4; 23-24; 236-3	0.347	0.271
39	20.41	4:2	041 064 071 072	0.4495	234-2; 236-4; 26-34; 25-35	0.329	0.239

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096	0.4530	24-35; 236-26	0.094	0.061
42	20.67	4:2	040	0.4552	23-23	0.027	0.020
43	20.91	4:1 5:3	057 103	0.4605	235-3; 246-25	0.066	0.047
44	21.09	4:1 5:3	058 067 100	0.4644	23-35; 245-3; 246-24	0.038	0.027
45	21.24	4:1	063	0.4677	235-4	0.130	0.094
46	21.41	4:1 5:3	074 094 061	0.4715	245-4; 235-26; 2345	0.082	0.060
47	21.54	4:1	070	0.4743	25-34	0.062	0.045
48	21.72	4:1 5:3	066 076 098 080 093 095 102 088	0.4783	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.439	0.318
49	21.96	4:1 5:3	055 091 121	0.4836	234-3; 236-24; 246-35	0.105	0.069
50	22.26	4:1	056 060	0.4902	23-34; 234-4	0.078	0.057
51	22.52	5:3 6:4	084 092 155	0.4959	236-23; 235-25; 246-246	0.486	0.316
52	22.61	5:3	089	0.4979	234-26	0.013	0.008
53	22.75	5:2	090 101	0.5010	235-24; 245-25	0.161	0.105
54	22.95	5:2	079 099 113	0.5054	34-35; 245-24; 236-35	0.079	0.052
55	23.23	5:2 6:4	119 150	0.5116	246-34; 236-246	0.008	0.005
56	23.31	5:2	078 083 112 108	0.5133	345-3; 235-23; 2356-3; 2346-3	0.082	0.053
57	23.54	5:2 6:4	097 152 086	0.5184	245-23; 2356-26; 2345-2	0.053	0.034
58	23.71	5:2	081 087 117 125 115 145	0.5221	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.092	0.060
59	23.87	5:2	116 085 111	0.5257	23456; 234-24; 235-35	0.030	0.019
60	24.00	6:4	120 136	0.5285	245-35; 236-236	0.029	0.017
61	24.11	5:2	077 110 148	0.5309	34-34; 236-34; 235-246	0.239	0.156
62	24.39	6:3	154		245-246	-	-
63	24.47	5:2	082	0.5389	234-23	0.017	0.011
64	24.77	6:3	151	0.5455	2356-25	0.064	0.037
65	24.91	5:1 6:3	124 135	0.5486	345-25; 235-236	0.024	0.014
66	24.96	6:3	144	0.5497	2346-25	0.011	0.007
67	25.04	5:1 6:3	107 109 147	0.5514	234-35; 235-34; 2356-24	0.038	0.024
68	25.14	5:1	123		345-24	-	-
69	25.23	5:1 6:3	106 118 139 149	0.5556	2345-3; 245-34; 2346-24; 236-245	0.137	0.086
70	25.33	6:3	140		234-246	-	-
71	25.61	5:1 6:3	114 134 143	0.5640	2345-4; 2356-23; 2345-26	0.024	0.015
72	25.82	5:1 6:3	122 131 133 142	0.5686	345-23; 2346-23; 235-235; 23456-2	0.005	0.003
73	26.08	6:2	146 165 188	0.5743	235-245; 2356-35; 2356-246	0.049	0.029
74	26.21	5:1 6:3	105 132 161	0.5772	234-34; 234-236; 2346-35	0.072	0.044
75	26.36	6:2	153	0.5805	245-245	0.057	0.034
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.88	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.16	6:2	137		2345-24	-	-
80	27.28	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164	0.6058	234-245; 2356-34; 236-345	0.086	0.051
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178	0.6212	23456-4; 2356-235	0.028	0.015
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.74	6:2	128 162	0.6329	234-234; 235-345	0.013	0.008
90	28.93	7:3	183		2346-245	-	-
91	29.21	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.88	7:3	174 181		2345-236; 23456-24	-	-
94	30.13	7:3	177		2356-234	-	-
95	30.42	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.80	8:4	200 169	0.7223	23456-236; 345-345	0.015	0.007
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 541 ng/L

Total Nanomoles = 2.548

Average Molecular Weight = 212.5

Number of Calibrated Peaks Found = 76

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

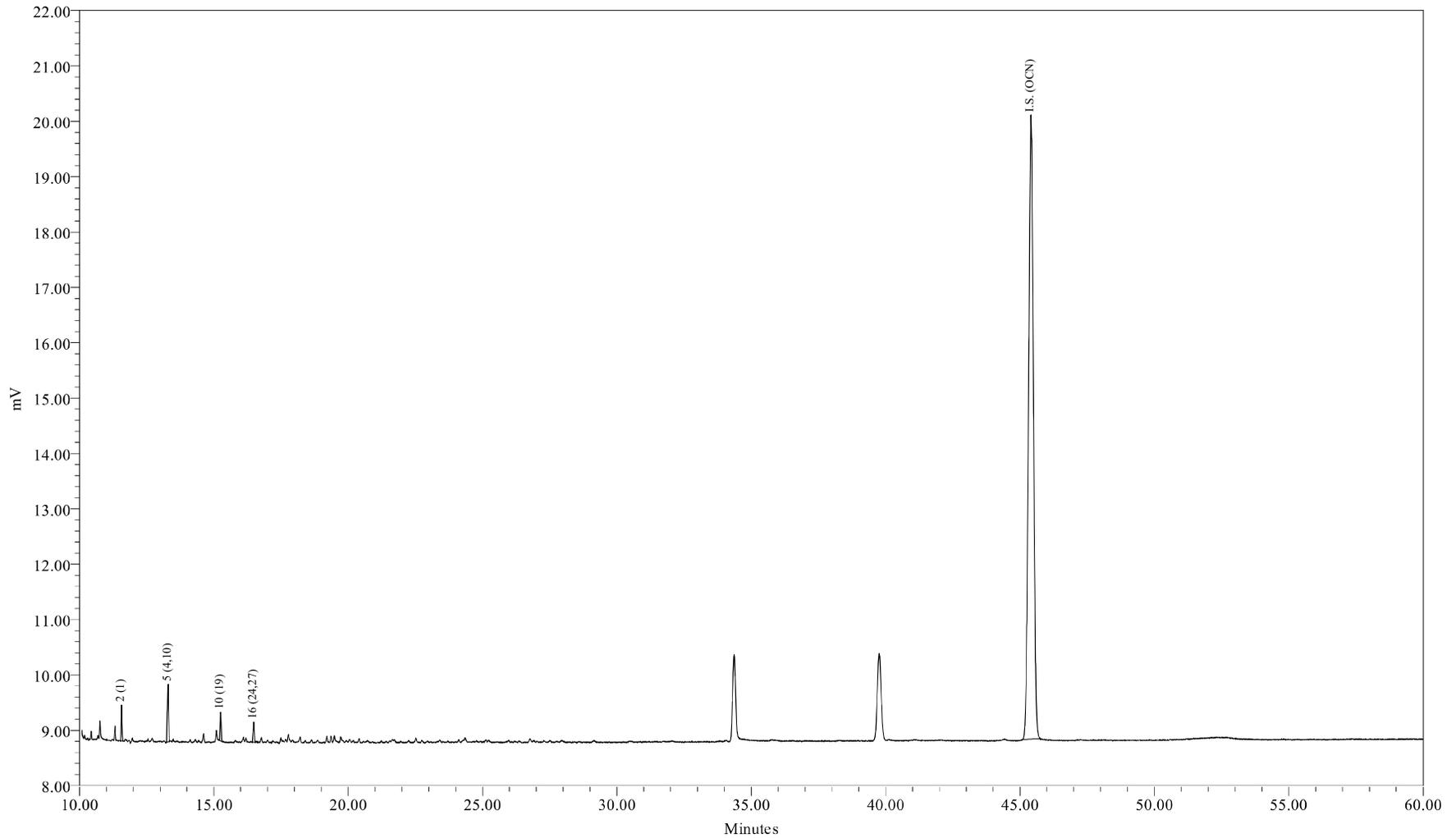
<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Sample Name: AM06249DL2  
Sample ID: WFF-T HIS-090527-BT001  
Date Acquired: 06/02/2009 08:07:04 EDT

Sample Amount (L) : 1.0000  
Dilution: 50  
Processing Method: CSG\_B\_LL1X\_051909  
LIMS File ID: GC24-74-15

Sample Name: AM06249DL2

1 of 1

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 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090527-BT001  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 08:07:04  
 Lab Sample ID: AM06249DL2  
 LRF ID: 09050311-05DL2  
 Lab File ID: GC24-74-15

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 462 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	51.03	55.66
Di	42.14	38.88
Tri	6.84	5.46
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	235.7643	100	100
A1242	23+24/31+28		0	0
A1254SED	61/100		0	
A1254BIO	69+75+82/149+153+138			0
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.48

Meta + Para Cl / biphenyl Residue = 0.02

Total Cl / biphenyl Residue = 1.50

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090527-BT001  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 08:07:04  
 Lab Sample ID: AM06249DL2  
 LRF ID: 09050311-05DL2  
 Lab File ID: GC24-74-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	1151	236	1250	5.29	21.9	
3	12.58	188.7				66.3	10000	U
4	12.68	188.7				3.55	12.8	U
5	13.30	223.1	3528	195	873	1.34	6.21	
6	14.13	223.1				0.721	2.19	U
7	14.44	223.1				1.58	3.47	U
8	14.62	223.1				5.42	25.6	U
9	15.18	223.1				2.94	250	U
10	15.25	257.5	1269	21.7	84.1	0.604	1.02	
11	15.72	257.5				1.98	250	U
12	15.78	223.1				3.06	250	U
13	15.98	223.1				0.559	0.975	U
14	16.11	249.0				1.28	6.76	U
15	16.19	257.5				1.43	6.76	U
16	16.48	257.5	949	9.92	38.5	0.374	0.475	
17	16.75	257.5				1.66	7.13	U
19	17.20	267.9				1.28	250	U
20	17.37	257.5				0.108	0.194	U
21	17.50	257.5				0.606	1.32	U
22	17.58	257.5				0.426	0.585	U
23	17.78	257.5				4.87	7.53	U
24	17.82	257.5				2.11	9.64	U
25	18.17	259.5				1.05	7.26	U
26	18.41	258.7				1.20	5.30	U
27	18.63	292.0				0.367	1.63	U
28	18.77	257.5				3.75	250	U
29	18.91	292.0				1.27	1.27	U
30	19.03	257.5				1.20	250	U
31	19.20	292.0				2.04	8.72	U
32	19.37	292.0				0.978	4.20	U
33	19.48	292.0				0.656	1.83	U
34	19.54	292.0				0.579	1.83	U
35	19.68	292.0				2.05	250	U
36	19.76	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0				1.60	7.86	U
38	20.06	272.4				1.15	4.75	U
39	20.41	292.0				1.21	7.49	U
41	20.57	326.4				1.15	250	U
42	20.67	292.0				0.968	1.72	U
43	20.92	298.9				1.52	250	U
44	21.09	298.9				0.225	0.402	U
45	21.25	292.0				0.299	0.384	U
46	21.41	292.0				0.821	3.47	U
47	21.55	292.0				1.64	6.21	U
48	21.66	293.5				2.43	13.2	U
49	21.96	324.7				0.376	0.932	U
50	22.26	292.0				3.59	6.40	U
51	22.51	326.4				0.888	3.29	U
52	22.61	326.4				0.384	0.384	U
53	22.76	326.4				0.691	3.29	U
54	22.95	326.4				1.01	1.35	U
55	23.23	326.4				0.0644	0.102	U
56	23.33	326.4				0.647	0.647	U
57	23.54	326.4				0.435	1.02	U
58	23.71	326.4				0.841	2.12	U
59	23.86	326.4				0.484	1.28	U
60	23.99	360.9				0.772	1.37	U
61	24.12	326.4				0.668	3.89	U
62	24.39	360.9				1.13	250	U
63	24.48	326.4				0.201	0.804	U
64	24.78	360.9				0.518	3.11	U
65	24.92	350.5				0.149	0.530	U
66	24.98	360.9				0.541	1.10	U
67	25.04	336.8				0.348	0.475	U
68	25.13	326.4				1.25	250	U
69	25.22	337.5				0.938	7.31	U
70	25.33	360.9				0.829	250	U
71	25.62	347.8				0.348	0.369	U
72	25.82	336.8				0.0638	0.106	U
73	26.08	360.9				0.320	0.713	U
74	26.20	347.8				0.721	2.48	U
75	26.36	360.9				1.09	5.38	U
76	26.47	360.9				1.07	250	U
77	26.87	360.9				0.637	3.11	U
78	26.94	395.3				0.470	2.67	U
79	27.13	360.9				0.501	0.501	U
80	27.29	360.9				0.151	0.475	U
82	27.51	360.9				1.08	4.93	U
83	27.68	360.9				0.450	0.457	U
84	27.88	360.9				0.0310	0.0473	U
85	28.21	395.3				0.677	2.01	U
87	28.51	395.3				0.156	0.731	U
88	28.65	395.3				1.02	6.58	U
89	28.76	360.9				0.199	0.366	U
90	28.94	395.3				0.679	3.11	U
91	29.19	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.225	0.859	U
93	29.89	394.3				1.02	5.85	U
94	30.15	394.3				0.936	3.11	U
95	30.43	382.2				0.871	1.44	U
96	30.69	429.8				0.0942	0.121	U
98	30.85	395.3				0.133	0.139	U
99	31.21	429.8				0.863	0.863	U
100	31.45	395.3				1.27	1.27	U
101	31.71	429.8				2.17	2.17	U
102	31.90	395.3				1.50	11.1	U
103	32.15	395.3				0.640	0.768	U
104	32.45	395.3				0.374	0.438	U
105	32.78	429.8				0.460	0.786	U
106	33.90	395.3				0.538	2.34	U
107	34.15	395.3				0.213	0.768	U
108	34.98	429.8				0.324	0.438	U
109	35.22	429.8				1.16	7.68	U
110	35.74	429.8				1.84	7.86	U
111	36.86	395.3				0.231	0.231	U
112	38.35	429.8				0.368	1.01	U
113	38.85	464.2				0.438	0.903	U
114	39.76	464.2				0.154	0.340	U
115	41.12	429.8				0.969	3.29	U
116	41.98	429.8				0.838	0.838	U
117	46.94	464.2				0.384	1.24	U
118	52.76	498.6				0.126	0.126	U

Total Concentration = 462 ng/L

91.0

322

Total Nanomoles = 2.245

Average Molecular Weight = 205.8

Number of Calibrated Peaks Found = 4

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 141471.1

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090527-BT001  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 08:07:04  
 Lab Sample ID: AM06249DL2  
 LRF ID: 09050311-05DL2  
 Lab File ID: GC24-74-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	51.027	55.660
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.30	2:2	004 010	0.2929	2-2; 26	42.137	38.876
6	14.13	2:1	007 009		24; 25	-	-
7	14.44	2:1	006		2-3	-	-
8	14.62	2:1	005 008		23; 2-4	-	-
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	4.690	3.749
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.19	3:2	017		24-2	-	-
16	16.48	3:2	024 027	0.3629	236; 26-3	2.147	1.716
17	16.75	3:2	016 032		23-2; 26-4	-	-
19	17.20	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026		25-3	-	-
22	17.58	3:1	025		24-3	-	-
23	17.78	3:1	031		25-4	-	-
24	17.82	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.17	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.41	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.63	4:3	045		236-2	-	-
28	18.77	3:0	036		35-3	-	-
29	18.91	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.37	4:2	043 049		235-2; 24-25	-	-
33	19.48	4:2	038 047		345; 24-24	-	-
34	19.54	4:2	048 075		245-2; 246-4	-	-
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.06	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.41	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096		24-35; 236-26	-	-
42	20.67	4:2	040		23-23	-	-
43	20.92	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.09	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.25	4:1	063		235-4	-	-
46	21.41	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.55	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.96	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.26	4:1	056 060		23-34; 234-4	-	-
51	22.51	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.61	5:3	089		234-26	-	-
53	22.76	5:2	090 101		235-24; 245-25	-	-
54	22.95	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.23	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.33	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.54	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.71	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.86	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.99	6:4	120 136		245-35; 236-236	-	-
61	24.12	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082		234-23	-	-
64	24.78	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.98	6:3	144		2346-25	-	-
67	25.04	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.13	5:1	123		345-24	-	-
69	25.22	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.20	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 462 ng/L

Total Nanomoles = 2.245

Average Molecular Weight = 205.8

Number of Calibrated Peaks Found = 4

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

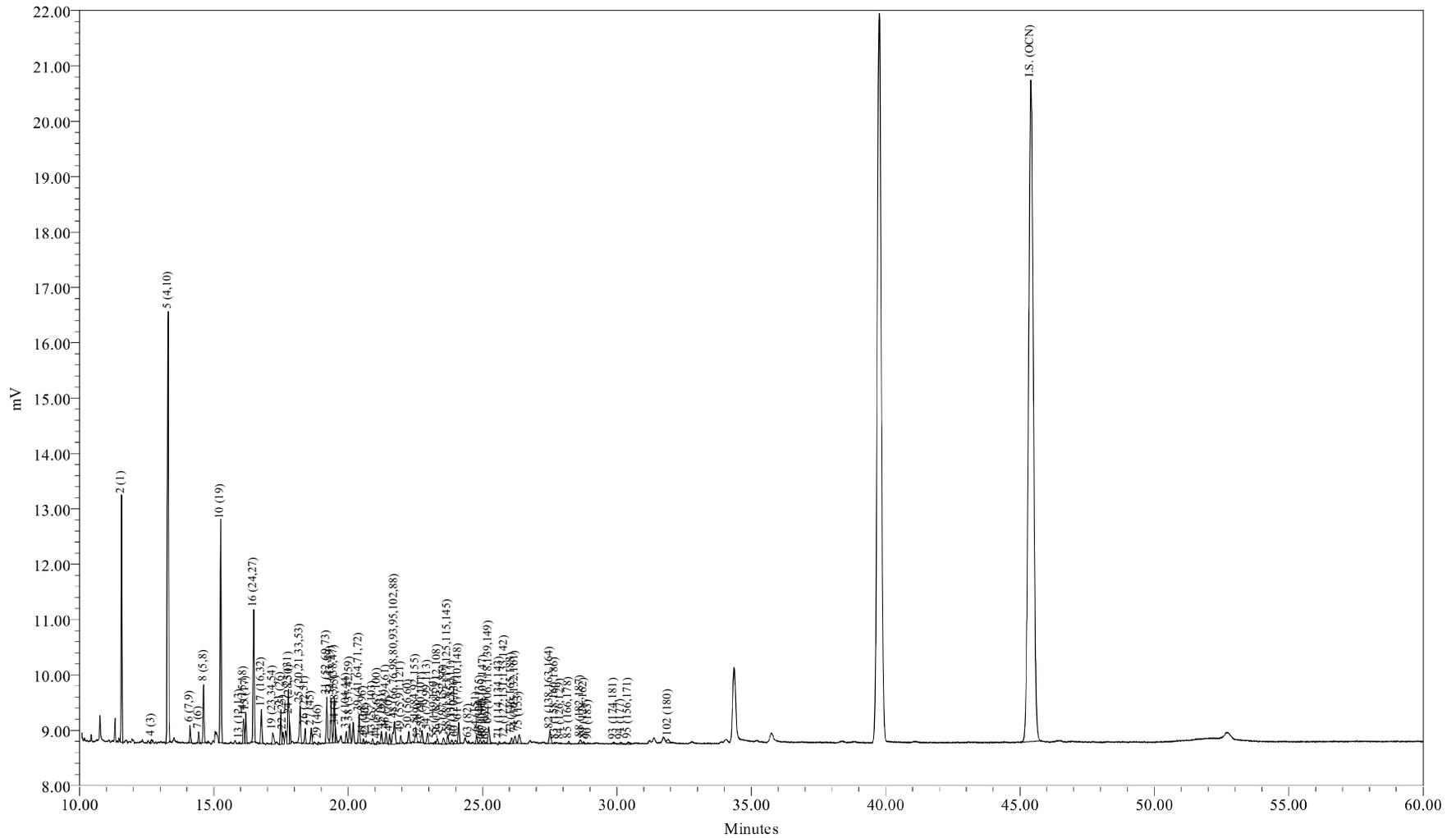
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050311
ELAP ID No:	11078	LRF ID:	09050311-06RR1
Matrix:	Water	Client ID:	WFF-TIDA-090527-BT003
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM06250RR1
% Moisture:	100	Lab File ID:	GC24-74-12
Extraction:	Solid Phase Extraction - 1L	Date Received:	05/29/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	06/02/2009 04:50
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:		

OCN (I.S.) Peak Area: 150584

Percent Recovery (50 - 150 %): 130

SAMPLE TOTAL PCB CONCENTRATION: 511 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM06250RR1  
Sample ID: WFF-TIDA-090527-BT003  
Date Acquired: 06/02/2009 04:50:22 EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-74-12

Sample Name: AM06250RR1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 04:50:22  
 Lab Sample ID: AM06250RR1  
 LRF ID: 09050311-06RR1  
 Lab File ID: GC24-74-12

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 511 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	44.56	49.93
Di	40.93	38.78
Tri	9.74	7.99
Tetra	2.98	2.17
Penta	1.31	0.85
Hexa	0.41	0.24
Hepta	0.06	0.03
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	221.2514	97.9	97.7
A1242	23+24/31+28	3.8843	1.72	1.72
A1254SED	61/100	0.9770	0.432	
A1254BIO	69+75+82/149+153+138	1.2179		0.538
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.49

Meta + Para Cl / biphenyl Residue = 0.17

Total Cl / biphenyl Residue = 1.66

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 04:50:22  
 Lab Sample ID: AM06250RR1  
 LRF ID: 09050311-06RR1  
 Lab File ID: GC24-74-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	924	221	1170	5.29	21.9	
3	12.58	188.7				6.63	1000	U
4	12.68	188.7	168	6.40	33.9	0.355	1.28	
5	13.29	223.1	3131	202	906	1.34	6.21	
6	14.11	223.1	786	0.942	4.22	0.0721	0.219	
7	14.43	223.1	467	1.10	4.93	0.158	0.347	
8	14.62	223.1	2521	4.14	18.6	0.542	2.56	
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	1052	21.0	81.6	0.604	1.02	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.96	223.1	80	0.148	0.663	0.0559	0.0975	
14	16.10	249.0	1302	2.22	8.93	0.128	0.676	
15	16.19	257.5	1420	4.45	17.3	0.143	0.676	B
16	16.48	257.5	611	7.45	28.9	0.374	0.475	
17	16.77	257.5	1750	3.02	11.7	0.166	0.713	
19	17.19	267.9	845	1.27	4.76	0.128	25.0	J
20	17.37	257.5				0.0108	0.0194	U
21	17.49	257.5	1840	2.50	9.72	0.0606	0.132	B
22	17.57	257.5	652	0.679	2.64	0.0426	0.0585	B
23	17.77	257.5	3019	3.16	12.3	0.487	0.753	
24	17.81	257.5	965	0.725	2.81	0.211	0.964	J
25	18.21	259.5	2147	2.63	10.1	0.105	0.726	
26	18.40	258.7	818	0.972	3.76	0.120	0.530	
27	18.63	292.0	783	0.949	3.25	0.0367	0.163	B
28	18.77	257.5				0.375	25.0	U
29	18.89	292.0	147	0.193	0.662	0.127	0.127	
30	19.03	257.5				0.120	25.0	U
31	19.20	292.0	2679	4.28	14.7	0.204	0.872	
32	19.36	292.0	2564	2.07	7.09	0.0978	0.420	
33	19.48	292.0	2720	1.59	5.44	0.0656	0.183	
34	19.52	292.0	520	0.368	1.26	0.0579	0.183	
35	19.68	292.0				0.205	25.0	U
36	19.76	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	624	0.392	1.34	0.160	0.786	J
38	20.06	272.4	1106	1.34	4.91	0.115	0.475	
39	20.41	292.0	1635	1.16	3.97	0.121	0.749	
41	20.57	326.4	245	0.350	1.07	0.115	25.0	J
42	20.67	292.0	119	0.123	0.423	0.0968	0.172	J
43	20.91	298.9	282	0.290	0.971	0.152	25.0	J
44	21.09	298.9	175	0.120	0.403	0.0225	0.0402	
45	21.24	292.0	602	0.423	1.45	0.0299	0.0384	
46	21.41	292.0	666	0.271	0.930	0.0821	0.347	J
47	21.55	292.0	526	0.180	0.617	0.164	0.621	J
48	21.72	293.5	2116	1.82	6.20	0.243	1.32	
49	21.96	324.7	480	0.410	1.26	0.0376	0.0932	
50	22.26	292.0	715			0.359	0.640	U
51	22.52	326.4	1061	1.92	5.89	0.0888	0.329	
52	22.61	326.4	46			0.0384	0.0384	U
53	22.75	326.4	774	0.599	1.83	0.0691	0.329	
54	22.95	326.4	666	0.338	1.04	0.101	0.135	
55	23.23	326.4	95	0.0329	0.101	0.00644	0.0102	
56	23.32	326.4	368	0.332	1.02	0.0647	0.0647	
57	23.55	326.4	456	0.277	0.849	0.0435	0.102	B
58	23.71	326.4	558	0.382	1.17	0.0841	0.212	
59	23.86	326.4	241	0.131	0.402	0.0484	0.128	
60	23.99	360.9	284	0.162	0.450	0.0772	0.137	
61	24.11	326.4	1275	0.977	2.99	0.0668	0.389	
62	24.39	360.9				0.113	25.0	U
63	24.48	326.4	102	0.0742	0.227	0.0201	0.0804	J
64	24.77	360.9	518	0.313	0.867	0.0518	0.311	
65	24.92	350.5	257	0.105	0.300	0.0149	0.0530	
66	24.96	360.9	64	0.0782	0.217	0.0541	0.110	J
67	25.04	336.8	221	0.190	0.564	0.0348	0.0475	
68	25.12	326.4	70			0.125	25.0	U
69	25.23	337.5	1163	0.570	1.69	0.0938	0.731	J
70	25.33	360.9				0.0829	25.0	U
71	25.63	347.8	121	0.0754	0.217	0.0348	0.0369	
72	25.81	336.8	104	0.0412	0.122	0.00638	0.0106	
73	26.07	360.9	389	0.245	0.679	0.0320	0.0713	
74	26.21	347.8	591	0.284	0.816	0.0721	0.248	
75	26.36	360.9	709	0.235	0.652	0.109	0.538	J
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.29	360.9				0.0151	0.0475	U
82	27.51	360.9	962	0.413	1.14	0.108	0.493	J
83	27.70	360.9	43			0.0450	0.0457	U
84	27.90	360.9	25			0.00310	0.00473	U
85	28.21	395.3	172	0.151	0.382	0.0677	0.201	J
87	28.51	395.3				0.0156	0.0731	U
88	28.65	395.3	331			0.102	0.658	U
89	28.77	360.9	153	0.0699	0.194	0.0199	0.0366	
90	28.95	395.3	48			0.0679	0.311	U
91	29.19	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.89	394.3	163			0.102	0.585	U
94	30.15	394.3	177	0.101	0.256	0.0936	0.311	J
95	30.42	382.2	196	0.107	0.281	0.0871	0.144	J
96	30.69	429.8				0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.91	395.3	405			0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = 511 ng/L

15.9 58.8

Total Nanomoles = 2.416

Average Molecular Weight = 211.4

Number of Calibrated Peaks Found = 72

Internal Standard Retention Time = 45.40 minutes

Internal Standard Peak Area = 150583.7

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 04:50:22  
 Lab Sample ID: AM06250RR1  
 LRF ID: 09050311-06RR1  
 Lab File ID: GC24-74-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	43.311	48.530
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003	0.2793	4	1.253	1.404
5	13.29	2:2	004 010	0.2927	2-2; 26	39.585	37.515
6	14.11	2:1	007 009	0.3108	24; 25	0.184	0.175
7	14.43	2:1	006	0.3178	2-3	0.215	0.204
8	14.62	2:1	005 008	0.3220	23; 2-4	0.811	0.768
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3359	26-2	4.115	3.378
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.96	2:0	012 013	0.3515	34; 3-4	0.029	0.027
14	16.10	2:0 3:2	015 018	0.3546	4-4; 25-2	0.435	0.370
15	16.19	3:2	017	0.3566	24-2	0.870	0.715
16	16.48	3:2	024 027	0.3630	236; 26-3	1.458	1.197
17	16.77	3:2	016 032	0.3694	23-2; 26-4	0.592	0.486
19	17.19	3:1 4:4	023 034 054	0.3786	235; 35-2; 26-26	0.249	0.197
20	17.37	3:1	029		245	-	-
21	17.49	3:1	026	0.3852	25-3	0.490	0.402
22	17.57	3:1	025	0.3870	24-3	0.133	0.109
23	17.77	3:1	031	0.3914	25-4	0.618	0.508
24	17.81	3:1 4:3	028 050	0.3923	24-4; 246-2	0.142	0.117
25	18.21	3:1 4:3	020 021 033 053	0.4011	23-3; 234; 34-2; 25-26	0.515	0.420
26	18.40	3:1 4:3	022 051	0.4053	23-4; 24-26	0.190	0.155
27	18.63	4:3	045	0.4104	236-2	0.186	0.134
28	18.77	3:0	036		35-3	-	-
29	18.89	4:3	046	0.4161	23-26	0.038	0.027
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4229	25-25; 246-3; 26-35	0.838	0.607
32	19.36	4:2	043 049	0.4264	235-2; 24-25	0.406	0.294
33	19.48	4:2	038 047	0.4291	345; 24-24	0.311	0.225
34	19.52	4:2	048 075	0.4300	245-2; 246-4	0.072	0.052
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044	0.4390	246-26; 23-25	0.077	0.056
38	20.06	3:0 4:2	037 042 059	0.4419	34-4; 23-24; 236-3	0.262	0.203
39	20.41	4:2	041 064 071 072	0.4496	234-2; 236-4; 26-34; 25-35	0.227	0.164

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
41	20.57	5:4	068 096	0.4531	24-35; 236-26	0.069	0.044
42	20.67	4:2	040	0.4553	23-23	0.024	0.017
43	20.91	4:1 5:3	057 103	0.4606	235-3; 246-25	0.057	0.040
44	21.09	4:1 5:3	058 067 100	0.4645	23-35; 245-3; 246-24	0.024	0.017
45	21.24	4:1	063	0.4678	235-4	0.083	0.060
46	21.41	4:1 5:3	074 094 061	0.4716	245-4; 235-26; 2345	0.053	0.038
47	21.55	4:1	070	0.4747	25-34	0.035	0.026
48	21.72	4:1 5:3	066 076 098 080 093 095 102 088	0.4784	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.356	0.257
49	21.96	4:1 5:3	055 091 121	0.4837	234-3; 236-24; 246-35	0.080	0.052
50	22.26	4:1	056 060	-	23-34; 234-4	-	-
51	22.52	5:3 6:4	084 092 155	0.4960	236-23; 235-25; 246-246	0.376	0.244
52	22.61	5:3	089	-	234-26	-	-
53	22.75	5:2	090 101	0.5011	235-24; 245-25	0.117	0.076
54	22.95	5:2	079 099 113	0.5055	34-35; 245-24; 236-35	0.066	0.043
55	23.23	5:2 6:4	119 150	0.5117	246-34; 236-246	0.006	0.004
56	23.32	5:2	078 083 112 108	0.5137	345-3; 235-23; 2356-3; 2346-3	0.065	0.042
57	23.55	5:2 6:4	097 152 086	0.5187	245-23; 2356-26; 2345-2	0.054	0.035
58	23.71	5:2	081 087 117 125 115 145	0.5222	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.075	0.048
59	23.86	5:2	116 085 111	0.5256	23456; 234-24; 235-35	0.026	0.017
60	23.99	6:4	120 136	0.5284	245-35; 236-236	0.032	0.019
61	24.11	5:2	077 110 148	0.5311	34-34; 236-34; 235-246	0.191	0.124
62	24.39	6:3	154	-	245-246	-	-
63	24.48	5:2	082	0.5392	234-23	0.015	0.009
64	24.77	6:3	151	0.5456	2356-25	0.061	0.036
65	24.92	5:1 6:3	124 135	0.5489	345-25; 235-236	0.021	0.012
66	24.96	6:3	144	0.5498	2346-25	0.015	0.009
67	25.04	5:1 6:3	107 109 147	0.5515	234-35; 235-34; 2356-24	0.037	0.023
68	25.12	5:1	123	-	345-24	-	-
69	25.23	5:1 6:3	106 118 139 149	0.5557	2345-3; 245-34; 2346-24; 236-245	0.112	0.070
70	25.33	6:3	140	-	234-246	-	-
71	25.63	5:1 6:3	114 134 143	0.5645	2345-4; 2356-23; 2345-26	0.015	0.009
72	25.81	5:1 6:3	122 131 133 142	0.5685	345-23; 2346-23; 235-235; 23456-2	0.008	0.005
73	26.07	6:2	146 165 188	0.5742	235-245; 2356-35; 2356-246	0.048	0.028
74	26.21	5:1 6:3	105 132 161	0.5773	234-34; 234-236; 2346-35	0.056	0.034
75	26.36	6:2	153	0.5806	245-245	0.046	0.027
76	26.47	6:2	127 168 184	-	345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141	-	2345-25	-	-
78	26.94	7:4	179	-	2356-236	-	-
79	27.13	6:2	137	-	2345-24	-	-
80	27.29	6:2 7:4	130 176	-	234-235; 2346-236	-	-
82	27.51	6:2	138 163 164	0.6059	234-245; 2356-34; 236-345	0.081	0.047
83	27.70	6:2	158 160 186	-	2346-34; 23456-3; 23456-26	-	-
84	27.90	6:2	126 129	-	345-34; 2345-23	-	-
85	28.21	7:3	166 178	0.6214	23456-4; 2356-235	0.030	0.016
87	28.51	7:3	175 159	-	2346-235; 2345-35	-	-
88	28.65	7:3	182 187	-	2345-246; 2356-245	-	-
89	28.77	6:2	128 162	0.6337	234-234; 235-345	0.014	0.008
90	28.95	7:3	183	-	2346-245	-	-
91	29.19	6:1	167	-	245-345	-	-
92	29.53	7:3	185	-	23456-25	-	-
93	29.89	7:3	174 181	-	2345-236; 23456-24	-	-
94	30.15	7:3	177	0.6641	2356-234	0.020	0.011
95	30.42	6:1 7:3	156 171	0.6700	2345-34; 2346-234	0.021	0.012
96	30.69	8:4	157 202	-	234-345; 2356-2356	-	-
98	30.85	7:3	173	-	23456-23	-	-
99	31.21	8:4	201	-	2346-2356	-	-
100	31.45	7:2	172 204	-	2345-235; 23456-246	-	-
101	31.71	8:4	192 197	-	23456-35; 2346-2346	-	-
102	31.91	7:2	180	-	2345-245	-	-
103	32.15	7:2	193	-	2356-345	-	-
104	32.45	7:2	191	-	2346-345	-	-
105	32.78	8:4	200 169	-	23456-236; 345-345	-	-
106	33.90	7:2	170	-	2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 511 ng/L

Total Nanomoles = 2.416

Average Molecular Weight = 211.4

Number of Calibrated Peaks Found = 72

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

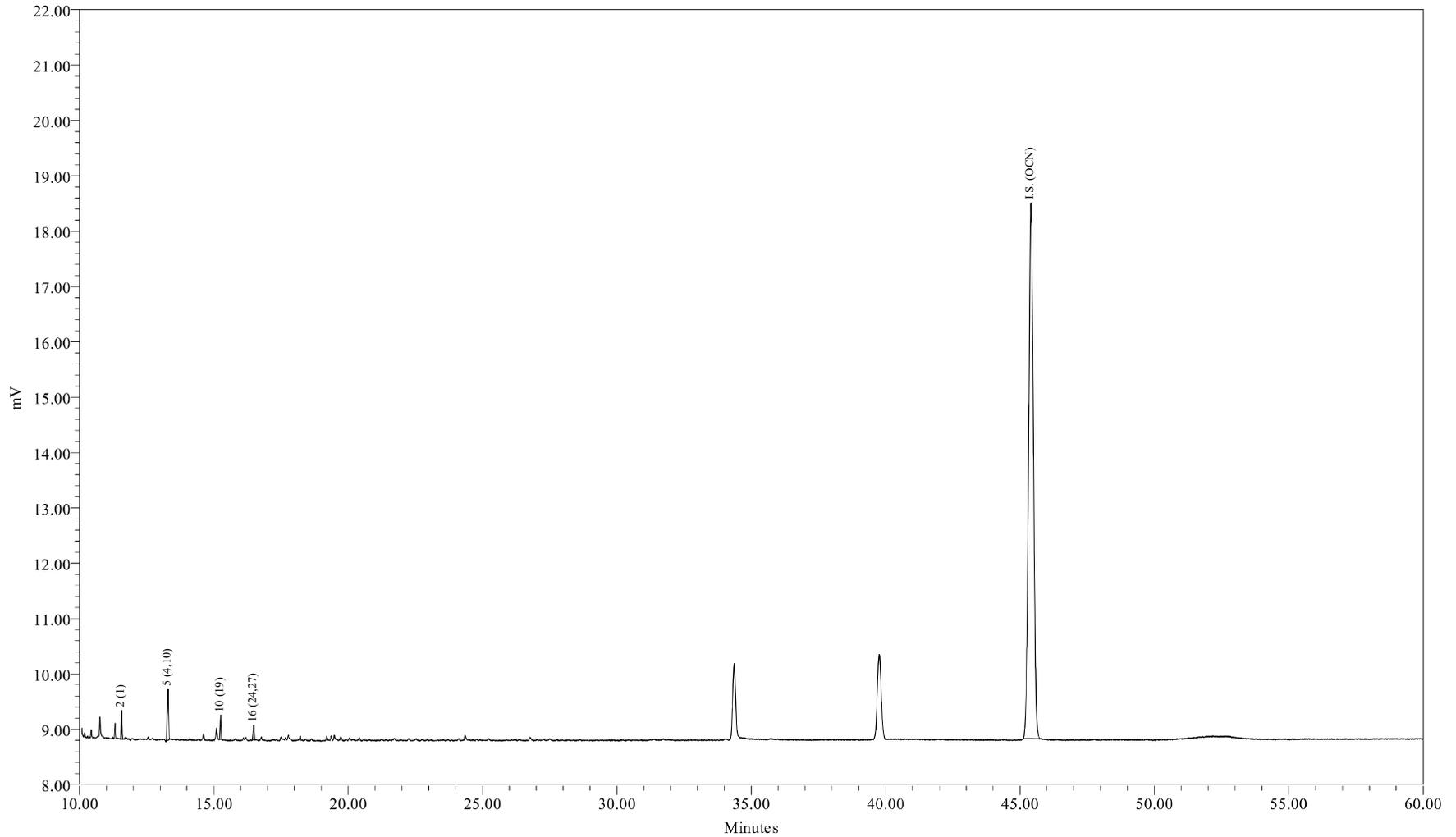
<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Sample Name: AM06250DL2  
Sample ID: WFF-TIDA-090527-BT003  
Date Acquired: 06/02/2009 09:12:44 EDT

Sample Amount (L) : 1.0000  
Dilution: 50  
Processing Method: CSGP\_LL1X\_051909  
LIMS File ID: GC24-74-16

Sample Name: AM06250DL2

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 09:12:44  
 Lab Sample ID: AM06250DL2  
 LRF ID: 09050311-06DL2  
 Lab File ID: GC24-74-16

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 452 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	48.96	53.55
Di	44.74	41.40
Tri	6.30	5.05
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	221.2514	100	100
A1242	23+24/31+28		0	0
A1254SED	61/100		0	
A1254BIO	69+75+82/149+153+138			0
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.50

Meta + Para Cl / biphenyl Residue = 0.01

Total Cl / biphenyl Residue = 1.51

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 09:12:44  
 Lab Sample ID: AM06250DL2  
 LRF ID: 09050311-06DL2  
 Lab File ID: GC24-74-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	924	221	1170	5.29	21.9	
3	12.58	188.7				66.3	10000	U
4	12.68	188.7				3.55	12.8	U
5	13.29	223.1	3131	202	906	1.34	6.21	
6	14.13	223.1				0.721	2.19	U
7	14.44	223.1				1.58	3.47	U
8	14.62	223.1				5.42	25.6	U
9	15.18	223.1				2.94	250	U
10	15.25	257.5	1052	21.0	81.6	0.604	1.02	
11	15.72	257.5				1.98	250	U
12	15.78	223.1				3.06	250	U
13	15.98	223.1				0.559	0.975	U
14	16.11	249.0				1.28	6.76	U
15	16.19	257.5				1.43	6.76	U
16	16.48	257.5	611	7.45	28.9	0.374	0.475	
17	16.75	257.5				1.66	7.13	U
19	17.20	267.9				1.28	250	U
20	17.37	257.5				0.108	0.194	U
21	17.50	257.5				0.606	1.32	U
22	17.58	257.5				0.426	0.585	U
23	17.78	257.5				4.87	7.53	U
24	17.82	257.5				2.11	9.64	U
25	18.17	259.5				1.05	7.26	U
26	18.41	258.7				1.20	5.30	U
27	18.63	292.0				0.367	1.63	U
28	18.77	257.5				3.75	250	U
29	18.91	292.0				1.27	1.27	U
30	19.03	257.5				1.20	250	U
31	19.20	292.0				2.04	8.72	U
32	19.37	292.0				0.978	4.20	U
33	19.48	292.0				0.656	1.83	U
34	19.54	292.0				0.579	1.83	U
35	19.68	292.0				2.05	250	U
36	19.76	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0				1.60	7.86	U
38	20.06	272.4				1.15	4.75	U
39	20.41	292.0				1.21	7.49	U
41	20.57	326.4				1.15	250	U
42	20.67	292.0				0.968	1.72	U
43	20.92	298.9				1.52	250	U
44	21.09	298.9				0.225	0.402	U
45	21.25	292.0				0.299	0.384	U
46	21.41	292.0				0.821	3.47	U
47	21.55	292.0				1.64	6.21	U
48	21.66	293.5				2.43	13.2	U
49	21.96	324.7				0.376	0.932	U
50	22.26	292.0				3.59	6.40	U
51	22.51	326.4				0.888	3.29	U
52	22.61	326.4				0.384	0.384	U
53	22.76	326.4				0.691	3.29	U
54	22.95	326.4				1.01	1.35	U
55	23.23	326.4				0.0644	0.102	U
56	23.33	326.4				0.647	0.647	U
57	23.54	326.4				0.435	1.02	U
58	23.71	326.4				0.841	2.12	U
59	23.86	326.4				0.484	1.28	U
60	23.99	360.9				0.772	1.37	U
61	24.12	326.4				0.668	3.89	U
62	24.39	360.9				1.13	250	U
63	24.48	326.4				0.201	0.804	U
64	24.78	360.9				0.518	3.11	U
65	24.92	350.5				0.149	0.530	U
66	24.98	360.9				0.541	1.10	U
67	25.04	336.8				0.348	0.475	U
68	25.13	326.4				1.25	250	U
69	25.22	337.5				0.938	7.31	U
70	25.33	360.9				0.829	250	U
71	25.62	347.8				0.348	0.369	U
72	25.82	336.8				0.0638	0.106	U
73	26.08	360.9				0.320	0.713	U
74	26.20	347.8				0.721	2.48	U
75	26.36	360.9				1.09	5.38	U
76	26.47	360.9				1.07	250	U
77	26.87	360.9				0.637	3.11	U
78	26.94	395.3				0.470	2.67	U
79	27.13	360.9				0.501	0.501	U
80	27.29	360.9				0.151	0.475	U
82	27.51	360.9				1.08	4.93	U
83	27.68	360.9				0.450	0.457	U
84	27.88	360.9				0.0310	0.0473	U
85	28.21	395.3				0.677	2.01	U
87	28.51	395.3				0.156	0.731	U
88	28.65	395.3				1.02	6.58	U
89	28.76	360.9				0.199	0.366	U
90	28.94	395.3				0.679	3.11	U
91	29.19	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.225	0.859	U
93	29.89	394.3				1.02	5.85	U
94	30.15	394.3				0.936	3.11	U
95	30.43	382.2				0.871	1.44	U
96	30.69	429.8				0.0942	0.121	U
98	30.85	395.3				0.133	0.139	U
99	31.21	429.8				0.863	0.863	U
100	31.45	395.3				1.27	1.27	U
101	31.71	429.8				2.17	2.17	U
102	31.90	395.3				1.50	11.1	U
103	32.15	395.3				0.640	0.768	U
104	32.45	395.3				0.374	0.438	U
105	32.78	429.8				0.460	0.786	U
106	33.90	395.3				0.538	2.34	U
107	34.15	395.3				0.213	0.768	U
108	34.98	429.8				0.324	0.438	U
109	35.22	429.8				1.16	7.68	U
110	35.74	429.8				1.84	7.86	U
111	36.86	395.3				0.231	0.231	U
112	38.35	429.8				0.368	1.01	U
113	38.85	464.2				0.438	0.903	U
114	39.76	464.2				0.154	0.340	U
115	41.12	429.8				0.969	3.29	U
116	41.98	429.8				0.838	0.838	U
117	46.94	464.2				0.384	1.24	U
118	52.76	498.6				0.126	0.126	U

Total Concentration = 452 ng/L

91.0

322

Total Nanomoles = 2.189

Average Molecular Weight = 206.4

Number of Calibrated Peaks Found = 4

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 120887.3

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090527-BT003  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 09:12:44  
 Lab Sample ID: AM06250DL2  
 LRF ID: 09050311-06DL2  
 Lab File ID: GC24-74-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	48.956	53.552
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.29	2:2	004 010	0.2927	2-2; 26	44.744	41.398
6	14.13	2:1	007 009		24; 25	-	-
7	14.44	2:1	006		2-3	-	-
8	14.62	2:1	005 008		23; 2-4	-	-
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	4.651	3.728
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.19	3:2	017		24-2	-	-
16	16.48	3:2	024 027	0.3629	236; 26-3	1.648	1.321
17	16.75	3:2	016 032		23-2; 26-4	-	-
19	17.20	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026		25-3	-	-
22	17.58	3:1	025		24-3	-	-
23	17.78	3:1	031		25-4	-	-
24	17.82	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.17	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.41	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.63	4:3	045		236-2	-	-
28	18.77	3:0	036		35-3	-	-
29	18.91	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.37	4:2	043 049		235-2; 24-25	-	-
33	19.48	4:2	038 047		345; 24-24	-	-
34	19.54	4:2	048 075		245-2; 246-4	-	-
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.06	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.41	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096		24-35; 236-26	-	-
42	20.67	4:2	040		23-23	-	-
43	20.92	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.09	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.25	4:1	063		235-4	-	-
46	21.41	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.55	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.96	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.26	4:1	056 060		23-34; 234-4	-	-
51	22.51	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.61	5:3	089		234-26	-	-
53	22.76	5:2	090 101		235-24; 245-25	-	-
54	22.95	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.23	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.33	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.54	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.71	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.86	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.99	6:4	120 136		245-35; 236-236	-	-
61	24.12	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082		234-23	-	-
64	24.78	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.98	6:3	144		2346-25	-	-
67	25.04	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.13	5:1	123		345-24	-	-
69	25.22	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.20	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 452 ng/L

Total Nanomoles = 2.189

Average Molecular Weight = 206.4

Number of Calibrated Peaks Found = 4

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

# Sample GC Injection Log (GC-16)



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com

Sample Set Name: GC16\_CC\_050609  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 5/6/2009 4:26:39 PM EDT  
Current Date: 5/7/2009  
Report Name: CSGB\_SSRReport

### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090506B01	1.000	1.00	1	5/6/2009 4:47:34 PM EDT
2	HEXANE BLANK	Unknown	090506B02	1.000	1.00	1	5/6/2009 5:55:09 PM EDT
3	ICAL 6.25 ng/mL	Standard	ICAL0506A	1.000	1.00	1	5/6/2009 7:03:04 PM EDT
4	ICAL 12.5 ng/mL	Standard	ICAL0506B	1.000	1.00	1	5/6/2009 8:11:05 PM EDT
5	ICAL 125 ng/mL	Standard	ICAL0506C	1.000	1.00	1	5/6/2009 9:18:53 PM EDT
6	ICAL 314 ng/mL	Standard	ICAL0506D	1.000	1.00	1	5/6/2009 10:26:40 PM EDT
7	ICAL 627 ng/mL	Standard	ICAL0506E	1.000	1.00	1	5/6/2009 11:34:24 PM EDT
8	HEXANE BLANK	Unknown	090506B03	1.000	1.00	1	5/7/2009 12:42:05 AM EDT
9	SUP CONG STD 200/5 ng/mL	Standard	SC0506A	1.000	1.00	1	5/7/2009 1:49:45 AM EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0506A	1.000	1.00	1	5/7/2009 2:57:27 AM EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0506B	1.000	1.00	1	5/7/2009 4:05:12 AM EDT
12	HEXANE BLANK	Unknown	090506B04	1.000	1.00	1	5/7/2009 5:12:58 AM EDT
13	CCC Std 122 ng/mL	Unknown	CCCS0506A	1.000	1.00	1	5/7/2009 6:20:45 AM EDT



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, New York 12308

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www.nealab.com

Sample Set Name: GC16\_053009d  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 05/30/2009 09:47:55  
Date Printed: 6/5/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090530B02	1.000	1.00	1	05/30/2009 09:47:55
2	CCC Std 122 ng/mL	Unknown	CCCS0530A	1.000	1.00	1	05/30/2009 10:55:50
3	METHOD BLANK	Unknown	AM06244B	1.000	5.00	5	05/30/2009 12:03:27
4	LAB CONTROL SPIKE	Unknown	AM06244L	1.000	5.00	5	05/30/2009 13:11:07
5	WFF-LOC5-090530-CT001	Unknown	AM06274	0.910	5.00	5	05/30/2009 14:18:44
6	WFF-LOC5-090530-CT001	Unknown	AM06274DL1	0.910	50.00	5	05/30/2009 15:26:19
7	WFF-WAFA-090529-CT001	Unknown	AM06244	1.040	5.00	5	05/30/2009 16:33:54
8	CCC Std 122 ng/mL	Unknown	CCCS0530B	1.000	1.00	1	05/30/2009 17:41:24
9	WFF-WAFA-090529-CT001	Unknown	AM06244DL1	1.040	10.00	5	05/30/2009 19:56:23
10	CCC Std 122 ng/mL	Unknown	CCCS0530C	1.000	1.00	1	05/30/2009 21:03:58
11	METHOD BLANK	Unknown	AM06245B	8.000	5.00	5	05/30/2009 22:11:27
12	LAB CONTROL SPIKE	Unknown	AM06245L	8.000	5.00	5	05/30/2009 23:18:49
13	WFF-FDBL-090527-BT001	Unknown	AM06245	8.460	5.00	5	05/31/2009 00:26:08
14	WFF-WAFA-090530-CT001	Unknown	AM06325	1.040	5.00	5	05/31/2009 01:33:22
15	CCC Std 122 ng/mL	Unknown	CCCS0530D	1.000	1.00	1	05/31/2009 03:47:46



Project Name: GC16\_May\_2009  
Sample Set Name: GC16\_053009d  
Date Printed: 6/5/2009

**Operating Conditions Gas Chromatography**

User Name: Inga Hotaling Injection Method: Splitless  
Sample Size: 0.5 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: Agilent DB-1; 30 meter; 0.25 micron phase thickness  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 28.8 psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector 1 GC16 Detector Type: ECD Detector Range: 4

# Sample GC Injection Log (GC-24)



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Sample Set Name: GC24\_CC\_051909  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 5/20/2009 12:45:29 AM EDT  
Current Date: 5/21/2009  
Report Name: CSGB\_SSReport

#### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090519B03	1.000	1.00	1	5/20/2009 12:51:04 AM EDT
2	HEXANE BLANK	Unknown	090519B04	1.000	1.00	1	5/20/2009 1:56:26 AM EDT
3	ICAL 6.25 ng/mL	Standard	ICAL0519A	1.000	1.00	1	5/20/2009 3:01:51 AM EDT
4	ICAL 12.5 ng/mL	Standard	ICAL0519B	1.000	1.00	1	5/20/2009 4:07:16 AM EDT
5	ICAL 125 ng/mL	Standard	ICAL0519C	1.000	1.00	1	5/20/2009 5:12:42 AM EDT
6	ICAL 314 ng/mL	Standard	ICAL0519D	1.000	1.00	1	5/20/2009 6:18:07 AM EDT
7	ICAL 627 ng/mL	Standard	ICAL0519E	1.000	1.00	1	5/20/2009 7:23:30 AM EDT
8	HEXANE BLANK	Unknown	090519B05	1.000	1.00	1	5/20/2009 8:28:58 AM EDT
9	SUP CONG STD 200/5 ng/mL	Standard	SC0519A	1.000	1.00	1	5/20/2009 9:34:29 AM EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0519A	1.000	1.00	1	5/20/2009 10:39:55 AM EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0519B	1.000	1.00	1	5/20/2009 11:45:24 AM EDT
12	HEXANE BLANK	Unknown	090519B06	1.000	1.00	1	5/20/2009 12:51:06 PM EDT
13	CCC Std 122 ng/mL	Unknown	CCCS0519A	1.000	1.00	1	5/20/2009 1:56:36 PM EDT



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Sample Set Name: GC24\_nea\_053109e  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 05/31/2009 09:17:05  
Date Printed: 06/02/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090531B01	1.000	1.00	1	05/31/2009 09:17:05
2	CCC Std 122 ng/mL	Unknown	CCCS0531A	1.000	1.00	1	05/31/2009 10:22:41
3	WFF-BDUP-090529-BT001	Unknown	AM06268DL1	1.040	50.00	5	05/31/2009 11:43:47
4	WFF-LHAL-090529-BT001	Unknown	AM06269DL1	1.040	50.00	5	05/31/2009 12:49:27
5	WFF-WAFO-090529-BT001	Unknown	AM06273DL1	1.000	50.00	5	05/31/2009 15:00:50
6	METHOD BLANK	Unknown	AM06270BRR1	1.000	5.00	5	05/31/2009 16:06:28
7	LAB CONTROL SPIKE	Unknown	AM06270LRR1	1.000	5.00	5	05/31/2009 17:12:09
8	WFF-WAFA-090529-BT001	Unknown	AM06272RR1	1.060	5.00	5	05/31/2009 18:17:49
9	WFF-WAFO-090529-BT001	Unknown	AM06273RR1	1.000	5.00	5	05/31/2009 19:23:25
10	WFF-BDUP-090529-BT001	Unknown	AM06268RR1	1.040	5.00	5	05/31/2009 20:29:12
11	CCC Std 122 ng/mL	Unknown	CCCS0531B	1.000	1.00	1	05/31/2009 21:34:42
12	WFF-LHAL-090529-BT001	Unknown	AM06269RR1	1.040	5.00	5	05/31/2009 22:40:04
13	WFF-LHPO-090529-BT001	Unknown	AM06270RR1	1.040	5.00	5	05/31/2009 23:45:28
14	WFF-LHPO-090529-BT001 MS	Unknown	AM06270MRR	1.060	5.00	5	06/01/2009 00:50:51
15	WFF-MOCO-090529-BT001	Unknown	AM06271RR1	1.060	5.00	5	06/01/2009 01:56:13
16	CCC Std 122 ng/mL	Unknown	CCCS0531C	1.000	1.00	1	06/01/2009 03:01:32
17	WFF-WAFA-090529-BT001	Unknown	AM06272DL2	1.060	50.00	5	06/01/2009 04:06:51
18	CCC Std 122 ng/mL	Unknown	CCCS0531D	1.000	1.00	1	06/01/2009 05:12:09



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Sample Set Name: GC24\_060109b  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 06/01/2009 22:16:53  
Date Printed: 06/02/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090601B03	1.000	1.00	1	06/01/2009 22:16:53
2	CCC Std 122 ng/mL	Unknown	CCCS0601B	1.000	1.00	1	06/01/2009 23:22:21
3	WFF-LOC5-090527-BT003	Unknown	AM06246RR1	1.020	5.00	5	06/02/2009 00:27:55
4	WFF-SCHU-090527-BT003	Unknown	AM06247RR1	0.980	5.00	5	06/02/2009 01:33:27
5	WFF-STWA-090527-BT001	Unknown	AM06248RR1	1.060	5.00	5	06/02/2009 02:39:02
6	WFF-THIS-090527-BT001	Unknown	AM06249RR1	1.000	5.00	5	06/02/2009 03:44:35
7	WFF-TIDA-090527-BT003	Unknown	AM06250RR1	1.000	5.00	5	06/02/2009 04:50:22
8	WFF-LOC5-090527-BT003	Unknown	AM06246DL2	1.020	50.00	5	06/02/2009 05:55:54
9	WFF-SCHU-090527-BT003	Unknown	AM06247DL2	0.980	50.00	5	06/02/2009 07:01:29
10	WFF-THIS-090527-BT001	Unknown	AM06249DL2	1.000	50.00	5	06/02/2009 08:07:04
11	WFF-TIDA-090527-BT003	Unknown	AM06250DL2	1.000	50.00	5	06/02/2009 09:12:44
12	CCC Std 122 ng/mL	Unknown	CCCS0601C	1.000	1.00	1	06/02/2009 10:18:21



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Project Name: GC24\_Mar\_2009  
Sample Set Name: GC24\_nea\_053109e  
Date Printed: 06/02/2009

**Operating Conditions Gas Chromatography**

User Name: Amy Jo Arndt Injection Method: Splitless  
Sample Size: 1.0 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 27.0psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector Type: ECD Detector Range: 4



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Project Name: GC24\_Mar\_2009  
Sample Set Name: GC24\_060109b  
Date Printed: 06/02/2009

**Operating Conditions Gas Chromatography**

User Name: Milca Mercado-Olivieri Injection Method: Splitless  
Sample Size: 1.0 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 27.0psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector Type: ECD Detector Range: 4

# Standards Summary Tables (GC-16)



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Sample Set Name: GC16\_CC\_050609  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 05/06/2009 16:26:39 EDT  
Current Date: 05/12/2009  
Report Name: CSGB\_SumRpt\_OCNArea

**ICAL OCN Area Summary Report**

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0506A	ICAL 6.25 ng/mL	05/06/2009 19:03:04 EDT	138855
2	ICAL0506B	ICAL 12.5 ng/mL	05/06/2009 20:11:05 EDT	133044
3	ICAL0506C	ICAL 125 ng/mL	05/06/2009 21:18:53 EDT	133957
4	ICAL0506D	ICAL 314 ng/mL	05/06/2009 22:26:40 EDT	131650
5	ICAL0506E	ICAL 627 ng/mL	05/06/2009 23:34:24 EDT	137822
Mean				135066



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System Name: Instrument\_16 Date Calibrated: 05/07/2009 14:40:50 EDT  
 Sample Set Name: GC16\_CC\_050609 Method Report: CSGB CCSum by RF  
 Sample Set Date: 05/06/2009 16:26:39 EDT User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_050609

**Calibration Component Summary Table  
 Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)
1	ICAL0506A	0.028292		0.013873	0.066504	0.463264	0.222303	0.134259			
2	ICAL0506B	0.026092		0.012661	0.065055	0.501977	0.232739	0.131829		0.355828	
3	ICAL0506C	0.026812		0.014258	0.061597	0.440505	0.213878	0.118251		0.335344	
4	ICAL0506D	0.025764		0.013903	0.063226	0.430586	0.207849	0.113347		0.330148	
5	ICAL0506E				0.059125					0.316962	
6	SC0506A		0.003220						0.169848		0.612513
Mean		0.027	0.003	0.014	0.063	0.459	0.219	0.124	0.170	0.335	0.613
Std. Dev.		0.001		0.001	0.003	0.032	0.011	0.010		0.016	
% RSD		4.20		5.10	4.59	6.90	4.93	8.20		4.83	

**Calibration Component Summary Table  
 Component Summary For RF**

	12 (11)	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)
1			0.446030	0.180620	0.535215	0.314625			0.388912	0.575038	0.610597
2		0.328700	0.393390	0.179178	0.585843	0.331653		0.546882	0.453827	0.511587	0.603115
3		0.315365	0.382114	0.175362	0.561213	0.308673		0.531418	0.409952	0.524335	0.564318
4		0.333841	0.372005	0.174108	0.551674	0.305814		0.523740	0.402217	0.545750	0.506156
5					0.522909						
6	0.060620						0.379022				
Mean	0.061	0.326	0.398	0.177	0.551	0.315	0.379	0.534	0.414	0.539	0.571
Std. Dev.		0.010	0.033	0.003	0.024	0.012		0.012	0.028	0.028	0.048
% RSD		2.93	8.27	1.74	4.40	3.67		2.21	6.79	5.15	8.37

**Calibration Component Summary Table  
 Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
1	0.644581	0.520697	0.455995	0.483187		0.463543		0.396085	0.777148	1.160590
2	0.653549	0.455725	0.446414	0.487499		0.471901		0.385667	0.753069	1.107084
3	0.576884	0.443627	0.412049	0.459940		0.387244		0.363912	0.711120	0.967076
4	0.551908	0.429028	0.407807	0.440280		0.391470		0.347777	0.685704	0.947968
5										
6					0.305306		0.300993			
Mean	0.607	0.462	0.431	0.468	0.305	0.429	0.301	0.373	0.732	1.046

**Calibration Component Summary Table  
Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
Std. Dev.	0.050	0.040	0.024	0.022		0.045		0.022	0.041	0.104
% RSD	8.25	8.75	5.62	4.69		10.60		5.81	5.61	9.98

**Calibration Component Summary Table  
Component Summary For RF**

	34 (48,75)	35 (62,65)	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)
1	0.780324			0.591260	0.416703	0.758663		0.532573		
2	0.707603			0.566961	0.504700	0.764347		0.496673		0.752826
3	0.668438			0.556990	0.431531	0.707794		0.550720		0.796915
4	0.657976			0.534082	0.417123	0.665115		0.540809		0.774943
5										
6		0.733346	0.299442				0.417595		0.573509	
Mean	0.704	0.733	0.299	0.562	0.443	0.724	0.418	0.530	0.574	0.775
Std. Dev.	0.055			0.024	0.042	0.047		0.024		0.022
% RSD	7.88			4.21	9.50	6.46		4.44		2.84

**Calibration Component Summary Table  
Component Summary For RF**

	45 (63)	46 (74,94,61)	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)
1	0.742944	1.162376	0.956701		0.623850	0.642609	0.853238	0.300248
2	0.835191	1.143624	0.972611		0.630132	0.522051	0.902629	0.307141
3	0.776881	1.063966	0.874548		0.569093	0.611778	0.852363	0.319786
4	0.751612	1.014300	0.808256		0.534951	0.599446	0.803002	0.301472
5								
6								
Mean	0.777	1.096	0.903		0.590	0.594	0.853	0.307
Std. Dev.	0.042	0.069	0.076		0.046	0.051	0.041	0.009
% RSD	5.36	6.32	8.46		7.73	8.63	4.77	2.91

**Calibration Component Summary Table  
Component Summary For RF**

	53 (90,101)	54 (79,99,113)	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)
1	0.744250	1.165174			0.986958		0.906168
2	0.718496	1.157416	1.602557	0.684260	0.948640		0.831830
3	0.713194	1.091409	1.893805	0.677320	0.919306		0.792834
4	0.682752	1.038930	1.570599	0.601462	0.873317		0.748621
5							
6							
Mean	0.715	1.113	1.689	0.654	0.932		0.820
Std. Dev.	0.025	0.060	0.178	0.046	0.048		0.067
% RSD	3.53	5.35	10.54	7.02	5.15		8.15

**Calibration Component Summary Table  
Component Summary For RF**

	60 (120,136)	61 (77,110,148)	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)
1	0.875386	0.740229		0.882757	0.853604	1.108347	0.434973		
2	0.796068	0.713167		0.903743	0.791125	1.232641	0.505084	0.812972	
3	0.794999	0.700358		0.846594	0.760958	1.263300	0.481711	0.736582	
4	0.757843	0.673242		0.788208	0.744866	1.211969	0.457340	0.650993	
5									
6			0.678919						0.782084
Mean	0.806	0.707	0.679	0.855	0.788	1.204	0.470	0.734	0.782
Std. Dev.	0.050	0.028		0.051	0.048	0.067	0.030	0.081	
% RSD	6.14	3.94		5.91	6.09	5.58	6.45	11.05	

**Calibration Component Summary Table  
Component Summary For RF**

	69 (106,118,139,149)	70 (140)	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)
1	0.973984		1.017740		0.980331	1.227896	1.202611
2	0.973995		0.843740	1.619288	0.903862	1.191761	1.187819
3	0.892848		0.929066	1.643894	0.915490	1.141639	1.096141
4	0.822088		0.870606	1.420795	0.851970	1.108177	1.008468
5							
6		0.791949					
Mean	0.916	0.792	0.915	1.561	0.913	1.167	1.124
Std. Dev.	0.073		0.077	0.122	0.053	0.053	0.090
% RSD	8.00		8.42	7.83	5.78	4.54	8.02

**Calibration Component Summary Table  
Component Summary For RF**

	76 (127,168,184)	77 (141)	78 (179)	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)
1		0.738366	0.856509		1.951884	1.168198	1.141712		0.426498
2		0.754568	0.791195	0.617448	1.679696	1.094858	1.187010	4.833400	0.476538
3		0.642774	0.839509	0.554369	1.634681	0.991157	1.016387	4.502191	
4		0.620560	0.785619	0.539341	1.538011	0.942543	0.984861	4.258010	0.484979
5									
6	0.708641								
Mean	0.709	0.689	0.818	0.570	1.701	1.049	1.082	4.531	0.463
Std. Dev.		0.067	0.035	0.041	0.177	0.102	0.097	0.289	0.032
% RSD		9.76	4.30	7.27	10.43	9.69	8.98	6.37	6.83

**Calibration Component Summary Table  
Component Summary For RF**

	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
1		1.074502		0.923772		1.542187	1.029649	0.918248	0.852459	5.717869
2	0.656351	1.075780	1.345589	0.956240	1.279061	1.513428	1.016291	0.860096	0.888166	6.274096
3	0.589901	0.969618	1.376130	0.895650	1.198461	1.274683	0.915861	0.789476	0.847127	5.988297
4	0.558835	0.917642	1.329152	0.886446	1.087004	1.225043	0.892474	0.784209	0.820749	5.889830

**Calibration Component Summary Table  
Component Summary For RF**

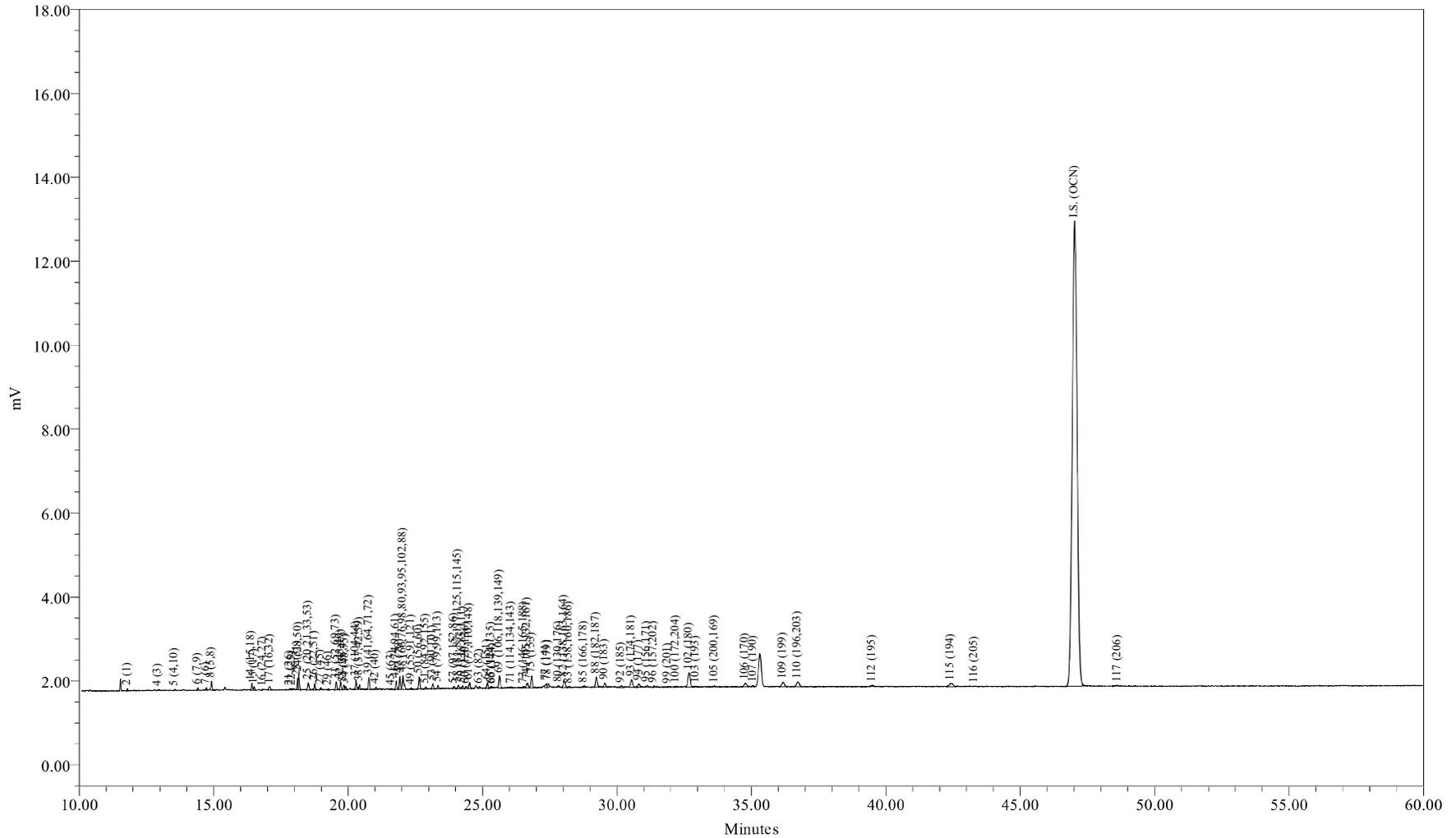
	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
5										
6										
Mean	0.602	1.009	1.350	0.916	1.188	1.389	0.964	0.838	0.852	5.968
Std. Dev.	0.050	0.079	0.024	0.031	0.096	0.162	0.069	0.064	0.028	0.233
% RSD	8.28	7.81	1.77	3.43	8.12	11.68	7.21	7.60	3.26	3.90

**Calibration Component Summary Table  
Component Summary For RF**

	98 (173)	99 (201)	100 (172,204)	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)
1		0.758114	0.748738		1.197579	0.767955		0.928593	1.640256	1.162535
2	1.283845	0.770988	0.792753	0.796177	1.171174	0.701329	0.811770	0.930118	1.762375	1.078889
3	1.245684	0.786572	0.769481	0.786988	1.101324	0.785107	0.692130	0.855296	1.627001	1.343003
4	1.119800	0.785123	0.738343	0.690943	1.027721	0.796211	0.806032	0.878545	1.587313	1.264685
5										
6										
Mean	1.216	0.775	0.762	0.758	1.124	0.763	0.770	0.898	1.654	1.212
Std. Dev.	0.086	0.013	0.024	0.058	0.076	0.043	0.067	0.037	0.076	0.116
% RSD	7.06	1.73	3.16	7.69	6.78	5.57	8.76	4.15	4.57	9.54

**Calibration Component Summary Table  
Component Summary For RF**

	108 (198)	109 (199)	110 (196,203)	111 (189)	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1		0.650432	0.701966		1.527464			1.603970	1.049466	1.170747	
2	1.171333	0.634683	0.690961	1.474251	1.649472	0.614347	1.320607	1.528319	1.002387	1.397839	1.518332
3	1.137699	0.611785	0.669920	1.312015	1.768196	0.629103	1.161184	1.466612	1.060232	1.316629	1.497880
4	1.136337	0.606589	0.665452	1.308615	1.720076	0.596660	1.220984	1.459884	1.115686	1.309488	1.469759
5											
6											
Mean	1.148	0.626	0.682	1.365	1.666	0.613	1.234	1.515	1.057	1.299	1.495
Std. Dev.	0.020	0.020	0.017	0.095	0.105	0.016	0.081	0.067	0.047	0.094	0.024
% RSD	1.73	3.26	2.54	6.94	6.28	2.65	6.53	4.42	4.40	7.26	1.63



Sample Name: ICAL0506A  
Sample ID: ICAL 6.25 ng/mL  
Date Acquired: 05/06/2009 19:03:04 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_050609  
LIMS File ID: GC16-664-3

Sample Name: ICAL0506A

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0506A Sample Amount: 1  
 Sample ID: ICAL 6.25 ng/mL Dilution: 1  
 Date Acquired: 05/06/2009 19:03:04 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 05/07/2009 14:12:42 EDT  
 Sample Set Name: GC16\_CC\_050609 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_050609 Current Date: 05/12/2009  
 Run Time: 60.0 Minutes Current Time: 15:22:13 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-664-3

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.794	95	0.439	0.439	0.028292
2	3 (2)	12.829				
3	4 (3)	12.936	27	0.256	0.256	0.013873
4	5 (4,10)	13.547	63	0.124	0.124	0.066504
5	6 (7,9)	14.412	155	0.044	0.044	0.463264
6	7 (6)	14.730	118	0.069	0.069	0.222303
7	8 (5,8)	14.917	525	0.512	0.512	0.134259
8	9 (14)	15.477				
9	10 (19)	15.561				
10	11 (30)	16.031				
11	12 (11)	16.090				
12	13 (12,13)	16.303				
13	14 (15,18)	16.421	461	0.135	0.135	0.446030
14	15 (17)	16.509	187	0.135	0.135	0.180620
15	16 (24,27)	16.822	39	0.009	0.009	0.535215
16	17 (16,32)	17.094	343	0.143	0.143	0.314625
17	19 (23,34,54)	17.526				
18	20 (29)	17.706				
19	21 (26)	17.838	78	0.026	0.026	0.388912
20	22 (25)	17.930	51	0.012	0.012	0.575038
21	23 (31)	18.118	703	0.151	0.151	0.610597
22	24 (28,50)	18.166	949	0.193	0.193	0.644581
23	25 (20,21,33,53)	18.522	577	0.145	0.145	0.520697
24	26 (22,51)	18.755	369	0.106	0.106	0.455995
25	27 (45)	18.976	120	0.033	0.033	0.483187
26	28 (36)	19.118				
27	29 (46)	19.259	52	0.015	0.015	0.463543
28	30 (39)	19.384				

**Peak Results**

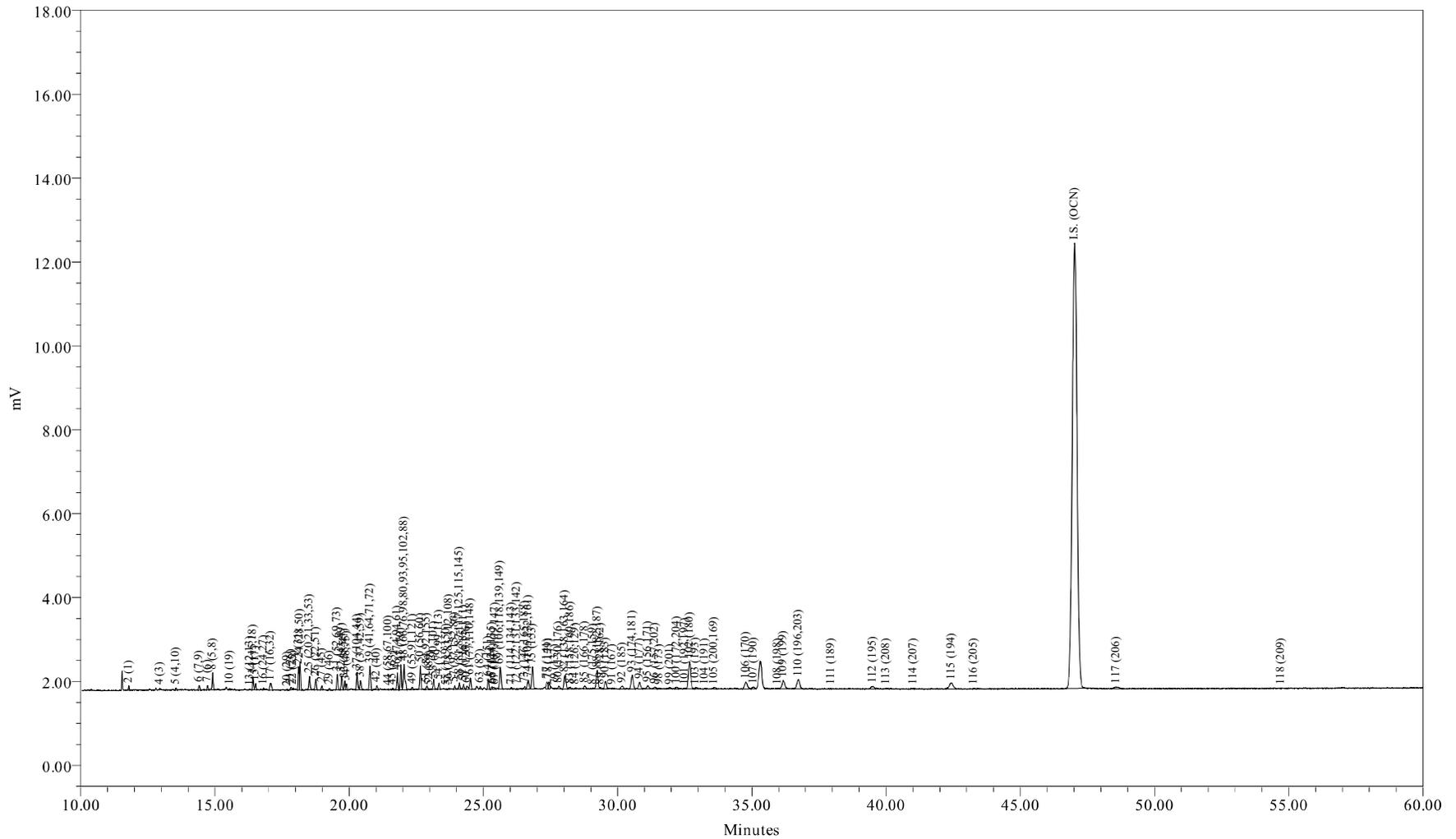
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.557	527	0.174	0.174	0.396085
30	32 (43,49)	19.724	499	0.084	0.084	0.777148
31	33 (38,47)	19.841	324	0.037	0.037	1.160590
32	34 (48,75)	19.904	218	0.037	0.037	0.780324
33	35 (62,65)	20.044				
34	36 (35)	20.122				
35	37 (104,44)	20.295	710	0.157	0.157	0.591260
36	38 (37,42,59)	20.430	302	0.095	0.095	0.416703
37	39 (41,64,71,72)	20.773	868	0.150	0.150	0.758663
38	41 (68,96)	20.936				
39	42 (40)	21.036	140	0.034	0.034	0.532573
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.455				
42	45 (63)	21.607	44	0.008	0.008	0.742944
43	46 (74,94,61)	21.791	616	0.069	0.069	1.162376
44	47 (70)	21.924	908	0.124	0.124	0.956701
45	48 (66,76,98,80,93,95,102,88)	22.043	1254	0.263	0.263	0.623850
46	49 (55,91,121)	22.349	91	0.019	0.019	0.642609
47	50 (56,60)	22.650	834	0.128	0.128	0.853238
48	51 (84,92,155)	22.884	151	0.066	0.066	0.300248
49	52 (89)	22.995				
50	53 (90,101)	23.150	374	0.066	0.066	0.744250
51	54 (79,99,113)	23.347	241	0.027	0.027	1.165174
52	55 (119,150)	23.626				
53	56 (78,83,112,108)	23.717				
54	57 (97,152,86)	23.931	154	0.020	0.020	0.986958
55	58 (81,87,117,125,115,145)	24.097	293	0.042	0.042	0.906168
56	59 (116,85,111)	24.256	203	0.026	0.026	1.037170
57	60 (120,136)	24.385	183	0.027	0.027	0.875386
58	61 (77,110,148)	24.519	440	0.078	0.078	0.740229
59	62 (154)	24.791				
60	63 (82)	24.875	108	0.016	0.016	0.882757
61	64 (151)	25.178	405	0.062	0.062	0.853604
62	65 (124,135)	25.320	90	0.011	0.011	1.108347
63	66 (144)	25.371	73	0.022	0.022	0.434973
64	67 (107,109,147)	25.452				
65	68 (123)	25.532				
66	69 (106,118,139,149)	25.632	1088	0.146	0.146	0.973984
67	70 (140)	25.744				
68	71 (114,134,143)	26.062	57	0.007	0.007	1.017740

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.248				
70	73 (146,165,188)	26.533	107	0.014	0.014	0.980331
71	74 (105,132,161)	26.669	464	0.050	0.050	1.227896
72	75 (153)	26.826	989	0.108	0.108	1.202611
73	76 (127,168,184)	26.937				
74	77 (141)	27.378	350	0.062	0.062	0.738366
75	78 (179)	27.439	349	0.053	0.053	0.856509
76	79 (137)	27.653				
77	80 (130,176)	27.826	142	0.009	0.009	1.951884
78	82 (138,163,164)	28.030	880	0.099	0.099	1.168198
79	83 (158,160,186)	28.213	80	0.009	0.009	1.141712
80	84 (126,129)	28.428				
81	85 (166,178)	28.771	131	0.040	0.040	0.426498
82	87 (175,159)	29.091				
83	88 (182,187)	29.232	1080	0.132	0.132	1.074502
84	89 (128,162)	29.370				
85	90 (183)	29.549	438	0.062	0.062	0.923772
86	91 (167)	29.835				
87	92 (185)	30.164	202	0.017	0.017	1.542187
88	93 (174,181)	30.546	920	0.117	0.117	1.029649
89	94 (177)	30.811	436	0.062	0.062	0.918248
90	95 (156,171)	31.119	188	0.029	0.029	0.852459
91	96 (157,202)	31.377	105	0.002	0.002	5.717869
92	98 (173)	31.560				
93	99 (201)	31.894	83	0.014	0.014	0.758114
94	100 (172,204)	32.198	117	0.020	0.020	0.748738
95	101 (192,197)	32.501				
96	102 (180)	32.686	2039	0.223	0.223	1.197579
97	103 (193)	32.942	90	0.015	0.015	0.767955
98	104 (191)	33.244				
99	105 (200,169)	33.626	111	0.016	0.016	0.928593
100	106 (170)	34.775	586	0.047	0.047	1.640256
101	107 (190)	35.079	136	0.015	0.015	1.162535
102	108 (198)	35.933				
103	109 (199)	36.185	763	0.154	0.154	0.650432
104	110 (196,203)	36.725	843	0.157	0.157	0.701966
105	111 (189)	37.915				
106	112 (195)	39.493	236	0.020	0.020	1.527464
107	113 (208)	40.023				
108	114 (207)	40.984				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.420	806	0.066	0.066	1.603970
110	116 (205)	43.299	32	0.004	0.004	1.049466
111	I.S. (OCN)	47.024	138855	18.180	18.180	7637.808296
112	117 (206)	48.623	222	0.025	0.025	1.170747
113	118 (209)	54.726				



Sample Name: ICAL0506B  
Sample ID: ICAL 12.5 ng/mL  
Date Acquired: 5/6/2009 8:11:05 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_050609  
LIMS File ID:

Sample Name: ICAL0506B

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
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Sample Name: ICAL0506B Sample Amount: 1  
 Sample ID: ICAL 12.5 ng/mL Dilution: 1  
 Date Acquired: 05/06/2009 20:11:05 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 05/07/2009 14:40:29 EDT  
 Sample Set Name: GC16\_CC\_050609 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_050609 Current Date: 05/12/2009  
 Run Time: 60.0 Minutes Current Time: 15:22:23 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-664-4

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.795	167	0.877	0.877	0.026092
2	3 (2)	12.829				
3	4 (3)	12.943	47	0.512	0.512	0.012661
4	5 (4,10)	13.549	118	0.249	0.249	0.065055
5	6 (7,9)	14.413	322	0.088	0.088	0.501977
6	7 (6)	14.728	237	0.139	0.139	0.232739
7	8 (5,8)	14.916	987	1.023	1.023	0.131829
8	9 (14)	15.477				
9	10 (19)	15.554	53	0.020	0.020	0.355828
10	11 (30)	16.031				
11	12 (11)	16.090				
12	13 (12,13)	16.301	47	0.020	0.020	0.328700
13	14 (15,18)	16.421	779	0.270	0.270	0.393390
14	15 (17)	16.511	355	0.270	0.270	0.179178
15	16 (24,27)	16.806	81	0.019	0.019	0.585843
16	17 (16,32)	17.069	692	0.285	0.285	0.331653
17	19 (23,34,54)	17.526				
18	20 (29)	17.691	16	0.004	0.004	0.546882
19	21 (26)	17.836	175	0.053	0.053	0.453827
20	22 (25)	17.912	88	0.023	0.023	0.511587
21	23 (31)	18.116	1330	0.301	0.301	0.603115
22	24 (28,50)	18.167	1845	0.386	0.386	0.653549
23	25 (20,21,33,53)	18.520	968	0.290	0.290	0.455725
24	26 (22,51)	18.752	693	0.212	0.212	0.446414
25	27 (45)	18.985	232	0.065	0.065	0.487499
26	28 (36)	19.118				
27	29 (46)	19.264	101	0.029	0.029	0.471901
28	30 (39)	19.384				

**Peak Results**

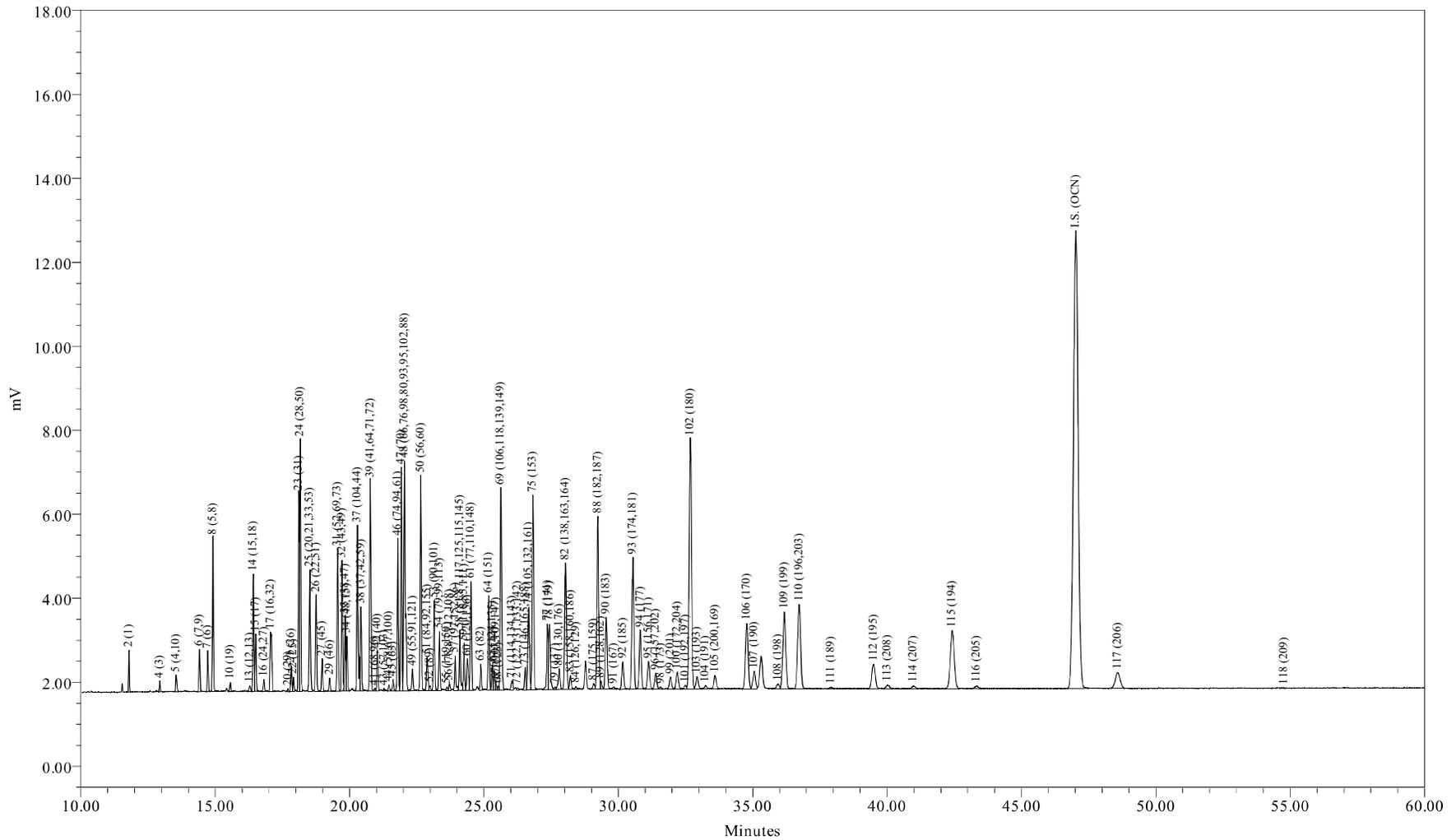
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.556	984	0.349	0.349	0.385667
30	32 (43,49)	19.722	927	0.168	0.168	0.753069
31	33 (38,47)	19.839	592	0.073	0.073	1.107084
32	34 (48,75)	19.903	379	0.073	0.073	0.707603
33	35 (62,65)	20.044				
34	36 (35)	20.122				
35	37 (104,44)	20.297	1304	0.314	0.314	0.566961
36	38 (37,42,59)	20.427	702	0.190	0.190	0.504700
37	39 (41,64,71,72)	20.775	1676	0.300	0.300	0.764347
38	41 (68,96)	20.936				
39	42 (40)	21.033	250	0.069	0.069	0.496673
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.463	44	0.008	0.008	0.752826
42	45 (63)	21.624	94	0.015	0.015	0.835191
43	46 (74,94,61)	21.794	1162	0.139	0.139	1.143624
44	47 (70)	21.925	1769	0.249	0.249	0.972611
45	48 (66,76,98,80,93,95,102,88)	22.042	2427	0.526	0.526	0.630132
46	49 (55,91,121)	22.350	142	0.037	0.037	0.522051
47	50 (56,60)	22.652	1690	0.256	0.256	0.902629
48	51 (84,92,155)	22.884	296	0.132	0.132	0.307141
49	52 (89)	22.994	33	0.007	0.007	0.612248
50	53 (90,101)	23.150	692	0.132	0.132	0.718496
51	54 (79,99,113)	23.347	458	0.054	0.054	1.157416
52	55 (119,150)	23.624	24	0.002	0.002	1.602557
53	56 (78,83,112,108)	23.716	55	0.011	0.011	0.684260
54	57 (97,152,86)	23.928	284	0.041	0.041	0.948640
55	58 (81,87,117,125,115,145)	24.105	516	0.085	0.085	0.831830
56	59 (116,85,111)	24.260	357	0.051	0.051	0.953560
57	60 (120,136)	24.379	319	0.055	0.055	0.796068
58	61 (77,110,148)	24.514	813	0.156	0.156	0.713167
59	62 (154)	24.791				
60	63 (82)	24.880	213	0.032	0.032	0.903743
61	64 (151)	25.178	719	0.124	0.124	0.791125
62	65 (124,135)	25.309	191	0.021	0.021	1.232641
63	66 (144)	25.371	162	0.044	0.044	0.505084
64	67 (107,109,147)	25.430	57	0.009	0.009	0.812972
65	68 (123)	25.532				
66	69 (106,118,139,149)	25.630	2084	0.292	0.292	0.973995
67	70 (140)	25.744				
68	71 (114,134,143)	26.040	91	0.015	0.015	0.843740

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.252	25	0.002	0.002	1.619288
70	73 (146,165,188)	26.541	189	0.029	0.029	0.903862
71	74 (105,132,161)	26.670	864	0.099	0.099	1.191761
72	75 (153)	26.827	1871	0.215	0.215	1.187819
73	76 (127,168,184)	26.937				
74	77 (141)	27.370	686	0.124	0.124	0.754568
75	78 (179)	27.435	618	0.107	0.107	0.791195
76	79 (137)	27.667	25	0.005	0.005	0.617448
77	80 (130,176)	27.805	233	0.019	0.019	1.679696
78	82 (138,163,164)	28.031	1581	0.197	0.197	1.094858
79	83 (158,160,186)	28.230	159	0.018	0.018	1.187010
80	84 (126,129)	28.423	33	0.001	0.001	4.833400
81	85 (166,178)	28.777	280	0.080	0.080	0.476538
82	87 (175,159)	29.081	70	0.015	0.015	0.656351
83	88 (182,187)	29.242	2072	0.263	0.263	1.075780
84	89 (128,162)	29.367	72	0.007	0.007	1.345589
85	90 (183)	29.549	870	0.124	0.124	0.956240
86	91 (167)	29.803	34	0.004	0.004	1.279061
87	92 (185)	30.168	380	0.034	0.034	1.513428
88	93 (174,181)	30.546	1740	0.234	0.234	1.016291
89	94 (177)	30.820	782	0.124	0.124	0.860096
90	95 (156,171)	31.125	375	0.058	0.058	0.888166
91	96 (157,202)	31.389	222	0.005	0.005	6.274096
92	98 (173)	31.549	26	0.003	0.003	1.283845
93	99 (201)	31.954	161	0.029	0.029	0.770988
94	100 (172,204)	32.206	237	0.041	0.041	0.792753
95	101 (192,197)	32.507	47	0.008	0.008	0.796177
96	102 (180)	32.685	3822	0.446	0.446	1.171174
97	103 (193)	32.909	158	0.031	0.031	0.701329
98	104 (191)	33.250	52	0.009	0.009	0.811770
99	105 (200,169)	33.588	214	0.031	0.031	0.930118
100	106 (170)	34.774	1207	0.094	0.094	1.762375
101	107 (190)	35.059	242	0.031	0.031	1.078889
102	108 (198)	35.968	75	0.009	0.009	1.171333
103	109 (199)	36.169	1426	0.307	0.307	0.634683
104	110 (196,203)	36.736	1589	0.314	0.314	0.690961
105	111 (189)	37.946	31	0.003	0.003	1.474251
106	112 (195)	39.504	488	0.040	0.040	1.649472
107	113 (208)	40.010	81	0.018	0.018	0.614347
108	114 (207)	41.014	66	0.007	0.007	1.320607

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.434	1472	0.132	0.132	1.528319
110	116 (205)	43.277	59	0.008	0.008	1.002387
111	I.S. (OCN)	47.017	133044	18.180	18.180	7318.128355
112	117 (206)	48.568	508	0.050	0.050	1.397839
113	118 (209)	54.710	10	0.001	0.001	1.518332



Sample Name: ICAL0506C  
Sample ID: ICAL 125 ng/mL  
Date Acquired: 5/6/2009 9:18:53 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_050609  
LIMS File ID:

Sample Name: ICAL0506C

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0506C Sample Amount: 1  
 Sample ID: ICAL 125 ng/mL Dilution: 1  
 Date Acquired: 05/06/2009 21:18:53 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 05/07/2009 14:39:24 EDT  
 Sample Set Name: GC16\_CC\_050609 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_050609 Current Date: 05/12/2009  
 Run Time: 60.0 Minutes Current Time: 15:22:31 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-664-5

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.793	1733	8.771	8.771	0.026812
2	3 (2)	12.829				
3	4 (3)	12.935	538	5.117	5.117	0.014258
4	5 (4,10)	13.545	1128	2.485	2.485	0.061597
5	6 (7,9)	14.414	2847	0.877	0.877	0.440505
6	7 (6)	14.724	2189	1.389	1.389	0.213878
7	8 (5,8)	14.915	8916	10.233	10.233	0.118251
8	9 (14)	15.477				
9	10 (19)	15.560	506	0.205	0.205	0.335344
10	11 (30)	16.031				
11	12 (11)	16.090				
12	13 (12,13)	16.289	453	0.195	0.195	0.315365
13	14 (15,18)	16.422	7615	2.704	2.704	0.382114
14	15 (17)	16.509	3495	2.704	2.704	0.175362
15	16 (24,27)	16.809	786	0.190	0.190	0.561213
16	17 (16,32)	17.062	6484	2.851	2.851	0.308673
17	19 (23,34,54)	17.526				
18	20 (29)	17.706	152	0.039	0.039	0.531418
19	21 (26)	17.833	1590	0.526	0.526	0.409952
20	22 (25)	17.917	904	0.234	0.234	0.524335
21	23 (31)	18.114	12531	3.014	3.014	0.564318
22	24 (28,50)	18.166	16396	3.857	3.857	0.576884
23	25 (20,21,33,53)	18.518	9490	2.903	2.903	0.443627
24	26 (22,51)	18.752	6436	2.120	2.120	0.412049
25	27 (45)	18.981	2204	0.650	0.650	0.459940
26	28 (36)	19.118				
27	29 (46)	19.257	834	0.292	0.292	0.387244
28	30 (39)	19.384				

**Peak Results**

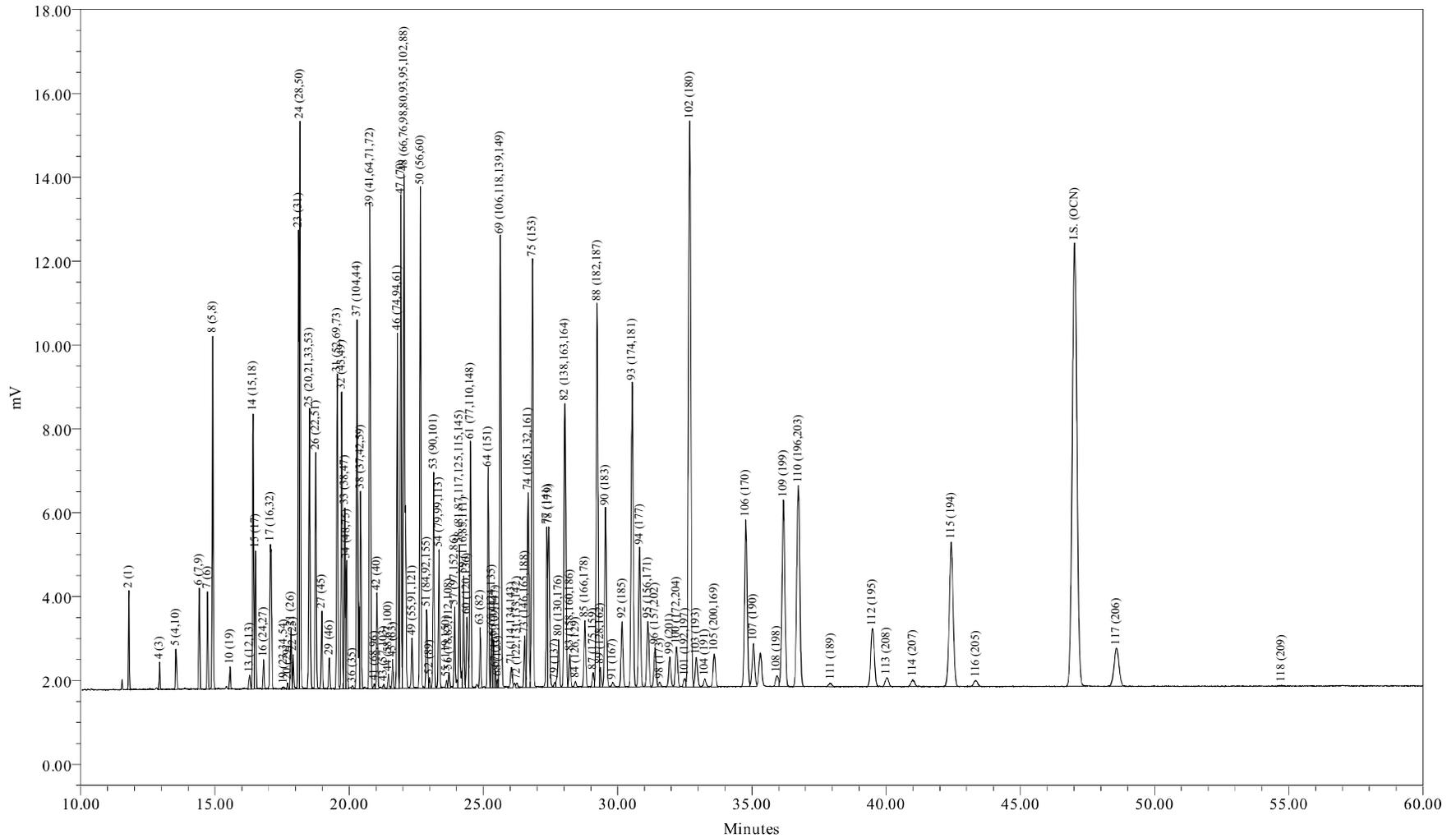
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.553	9349	3.487	3.487	0.363912
30	32 (43,49)	19.722	8809	1.681	1.681	0.711120
31	33 (38,47)	19.838	5209	0.731	0.731	0.967076
32	34 (48,75)	19.901	3601	0.731	0.731	0.668438
33	35 (62,65)	20.044				
34	36 (35)	20.122				
35	37 (104,44)	20.294	12900	3.143	3.143	0.556990
36	38 (37,42,59)	20.425	6043	1.901	1.901	0.431531
37	39 (41,64,71,72)	20.772	15630	2.997	2.997	0.707794
38	41 (68,96)	20.941	168			
39	42 (40)	21.034	2788	0.687	0.687	0.550720
40	43 (57,103)	21.286	162			
41	44 (58,67,100)	21.463	472	0.080	0.080	0.796915
42	45 (63)	21.620	879	0.154	0.154	0.776881
43	46 (74,94,61)	21.793	10888	1.389	1.389	1.063966
44	47 (70)	21.925	16014	2.485	2.485	0.874548
45	48 (66,76,98,80,93,95,102,88)	22.042	22068	5.263	5.263	0.569093
46	49 (55,91,121)	22.342	1681	0.373	0.373	0.611778
47	50 (56,60)	22.648	16067	2.558	2.558	0.852363
48	51 (84,92,155)	22.885	3100	1.316	1.316	0.319786
49	52 (89)	22.993	377	0.073	0.073	0.699208
50	53 (90,101)	23.148	6914	1.316	1.316	0.713194
51	54 (79,99,113)	23.344	4350	0.541	0.541	1.091409
52	55 (119,150)	23.620	286	0.020	0.020	1.893805
53	56 (78,83,112,108)	23.717	547	0.110	0.110	0.677320
54	57 (97,152,86)	23.931	2772	0.409	0.409	0.919306
55	58 (81,87,117,125,115,145)	24.104	4953	0.848	0.848	0.792834
56	59 (116,85,111)	24.258	3487	0.512	0.512	0.924806
57	60 (120,136)	24.382	3211	0.548	0.548	0.794999
58	61 (77,110,148)	24.512	8034	1.557	1.557	0.700358
59	62 (154)	24.791				
60	63 (82)	24.881	2006	0.322	0.322	0.846594
61	64 (151)	25.178	6967	1.243	1.243	0.760958
62	65 (124,135)	25.312	1974	0.212	0.212	1.263300
63	66 (144)	25.381	1557	0.439	0.439	0.481711
64	67 (107,109,147)	25.441	515	0.095	0.095	0.736582
65	68 (123)	25.537	273			
66	69 (106,118,139,149)	25.631	19235	2.924	2.924	0.892848
67	70 (140)	25.744				
68	71 (114,134,143)	26.040	1010	0.148	0.148	0.929066

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.254	258	0.021	0.021	1.643894
70	73 (146,165,188)	26.538	1923	0.285	0.285	0.915490
71	74 (105,132,161)	26.667	8331	0.990	0.990	1.141639
72	75 (153)	26.823	17387	2.153	2.153	1.096141
73	76 (127,168,184)	26.937				
74	77 (141)	27.363	5885	1.243	1.243	0.642774
75	78 (179)	27.435	6602	1.067	1.067	0.839509
76	79 (137)	27.648	224	0.055	0.055	0.554369
77	80 (130,176)	27.804	2288	0.190	0.190	1.634681
78	82 (138,163,164)	28.035	14414	1.974	1.974	0.991157
79	83 (158,160,186)	28.223	1368	0.183	0.183	1.016387
80	84 (126,129)	28.425	314	0.009	0.009	4.502191
81	85 (166,178)	28.776				
82	87 (175,159)	29.081	636	0.146	0.146	0.589901
83	88 (182,187)	29.235	18800	2.631	2.631	0.969618
84	89 (128,162)	29.362	741	0.073	0.073	1.376130
85	90 (183)	29.548	8200	1.243	1.243	0.895650
86	91 (167)	29.831	317	0.036	0.036	1.198461
87	92 (185)	30.166	3226	0.343	0.343	1.274683
88	93 (174,181)	30.544	15784	2.339	2.339	0.915861
89	94 (177)	30.814	7228	1.243	1.243	0.789476
90	95 (156,171)	31.124	3605	0.578	0.578	0.847127
91	96 (157,202)	31.392	2130	0.048	0.048	5.988297
92	98 (173)	31.580	255	0.028	0.028	1.245684
93	99 (201)	31.941	1653	0.285	0.285	0.786572
94	100 (172,204)	32.196	2320	0.409	0.409	0.769481
95	101 (192,197)	32.497	466	0.080	0.080	0.786988
96	102 (180)	32.681	36183	4.459	4.459	1.101324
97	103 (193)	32.924	1776	0.307	0.307	0.785107
98	104 (191)	33.241	447	0.088	0.088	0.692130
99	105 (200,169)	33.598	1981	0.314	0.314	0.855296
100	106 (170)	34.782	11216	0.936	0.936	1.627001
101	107 (190)	35.051	3038	0.307	0.307	1.343003
102	108 (198)	35.940	735	0.088	0.088	1.137699
103	109 (199)	36.174	13839	3.070	3.070	0.611785
104	110 (196,203)	36.729	15515	3.143	3.143	0.669920
105	111 (189)	37.908	282	0.029	0.029	1.312015
106	112 (195)	39.501	5266	0.404	0.404	1.768196
107	113 (208)	40.019	837	0.180	0.180	0.629103
108	114 (207)	40.984	582	0.068	0.068	1.161184

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.416	14218	1.316	1.316	1.466612
110	116 (205)	43.329	628	0.080	0.080	1.060232
111	I.S. (OCN)	47.023	133957	18.180	18.180	7368.380997
112	117 (206)	48.578	4821	0.497	0.497	1.316629
113	118 (209)	54.764	98	0.009	0.009	1.497880



Sample Name: ICAL0506D  
Sample ID: ICAL 314 ng/mL  
Date Acquired: 5/6/2009 10:26:40 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_050609  
LIMS File ID:



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0506D Sample Amount: 1  
 Sample ID: ICAL 314 ng/mL Dilution: 1  
 Date Acquired: 05/06/2009 22:26:40 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 05/07/2009 14:39:53 EDT  
 Sample Set Name: GC16\_CC\_050609 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_050609 Current Date: 05/12/2009  
 Run Time: 60.0 Minutes Current Time: 15:22:41 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-664-6

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.794	4091	21.928	21.928	0.025764
2	3 (2)	12.829				
3	4 (3)	12.935	1288	12.792	12.792	0.013903
4	5 (4,10)	13.545	2845	6.213	6.213	0.063226
5	6 (7,9)	14.413	6837	2.193	2.193	0.430586
6	7 (6)	14.725	5226	3.472	3.472	0.207849
7	8 (5,8)	14.915	20999	25.583	25.583	0.113347
8	9 (14)	15.477				
9	10 (19)	15.559	1224	0.512	0.512	0.330148
10	11 (30)	16.031				
11	12 (11)	16.090				
12	13 (12,13)	16.294	1179	0.488	0.488	0.333841
13	14 (15,18)	16.422	18214	6.761	6.761	0.372005
14	15 (17)	16.510	8525	6.761	6.761	0.174108
15	16 (24,27)	16.810	1897	0.475	0.475	0.551674
16	17 (16,32)	17.064	15782	7.127	7.127	0.305814
17	19 (23,34,54)	17.567	238			
18	20 (29)	17.705	368	0.097	0.097	0.523740
19	21 (26)	17.833	3832	1.316	1.316	0.402217
20	22 (25)	17.915	2311	0.585	0.585	0.545750
21	23 (31)	18.115	27615	7.534	7.534	0.506156
22	24 (28,50)	18.166	38540	9.643	9.643	0.551908
23	25 (20,21,33,53)	18.519	22550	7.258	7.258	0.429028
24	26 (22,51)	18.751	15650	5.300	5.300	0.407807
25	27 (45)	18.981	5185	1.626	1.626	0.440280
26	28 (36)	19.118				
27	29 (46)	19.256	2072	0.731	0.731	0.391470
28	30 (39)	19.384				

**Peak Results**

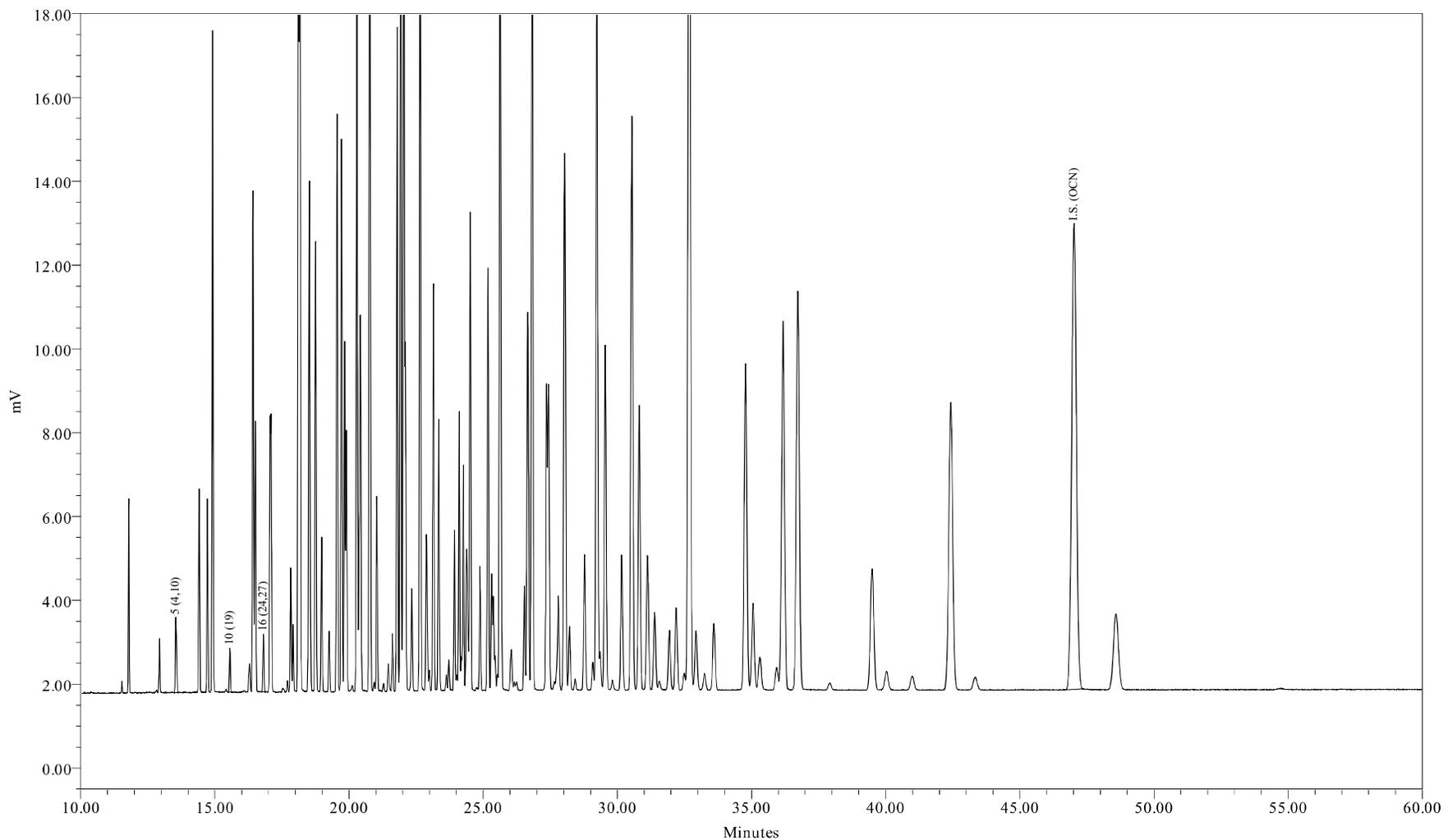
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.553	21952	8.716	8.716	0.347777
30	32 (43,49)	19.722	20870	4.203	4.203	0.685704
31	33 (38,47)	19.838	12546	1.828	1.828	0.947968
32	34 (48,75)	19.902	8708	1.828	1.828	0.657976
33	35 (62,65)	20.044				
34	36 (35)	20.122	301			
35	37 (104,44)	20.293	30390	7.858	7.858	0.534082
36	38 (37,42,59)	20.424	14352	4.751	4.751	0.417123
37	39 (41,64,71,72)	20.773	36086	7.492	7.492	0.665115
38	41 (68,96)	20.936	371			
39	42 (40)	21.036	6727	1.718	1.718	0.540809
40	43 (57,103)	21.288	386			
41	44 (58,67,100)	21.464	1128	0.201	0.201	0.774943
42	45 (63)	21.622	2089	0.384	0.384	0.751612
43	46 (74,94,61)	21.793	25502	3.472	3.472	1.014300
44	47 (70)	21.924	36364	6.213	6.213	0.808256
45	48 (66,76,98,80,93,95,102,88)	22.042	50968	13.157	13.157	0.534951
46	49 (55,91,121)	22.341	4046	0.932	0.932	0.599446
47	50 (56,60)	22.650	37190	6.396	6.396	0.803002
48	51 (84,92,155)	22.887	7181	3.289	3.289	0.301472
49	52 (89)	22.994	764	0.183	0.183	0.577012
50	53 (90,101)	23.148	16262	3.289	3.289	0.682752
51	54 (79,99,113)	23.343	10173	1.352	1.352	1.038930
52	55 (119,150)	23.624	583	0.051	0.051	1.570599
53	56 (78,83,112,108)	23.717	1193	0.274	0.274	0.601462
54	57 (97,152,86)	23.929	6471	1.023	1.023	0.873317
55	58 (81,87,117,125,115,145)	24.103	11491	2.120	2.120	0.748621
56	59 (116,85,111)	24.259	8360	1.279	1.279	0.902443
57	60 (120,136)	24.381	7521	1.370	1.370	0.757843
58	61 (77,110,148)	24.513	18975	3.892	3.892	0.673242
59	62 (154)	24.791				
60	63 (82)	24.881	4589	0.804	0.804	0.788208
61	64 (151)	25.178	16756	3.106	3.106	0.744866
62	65 (124,135)	25.313	4652	0.530	0.530	1.211969
63	66 (144)	25.379	3632	1.097	1.097	0.457340
64	67 (107,109,147)	25.440	1119	0.237	0.237	0.650993
65	68 (123)	25.533	533			
66	69 (106,118,139,149)	25.629	43514	7.309	7.309	0.822088
67	70 (140)	25.744				
68	71 (114,134,143)	26.042	2326	0.369	0.369	0.870606

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.249	547	0.053	0.053	1.420795
70	73 (146,165,188)	26.536	4398	0.713	0.713	0.851970
71	74 (105,132,161)	26.664	19869	2.476	2.476	1.108177
72	75 (153)	26.824	39303	5.382	5.382	1.008468
73	76 (127,168,184)	26.937				
74	77 (141)	27.366	13960	3.106	3.106	0.620560
75	78 (179)	27.436	15179	2.668	2.668	0.785619
76	79 (137)	27.653	535	0.137	0.137	0.539341
77	80 (130,176)	27.806	5289	0.475	0.475	1.538011
78	82 (138,163,164)	28.033	33882	4.964	4.964	0.942543
79	83 (158,160,186)	28.217	3257	0.457	0.457	0.984861
80	84 (126,129)	28.434	729	0.024	0.024	4.258010
81	85 (166,178)	28.779	7059	2.010	2.010	0.484979
82	87 (175,159)	29.088	1479	0.366	0.366	0.558835
83	88 (182,187)	29.234	43714	6.578	6.578	0.917642
84	89 (128,162)	29.356	1759	0.183	0.183	1.329152
85	90 (183)	29.549	19941	3.106	3.106	0.886446
86	91 (167)	29.811	706	0.090	0.090	1.087004
87	92 (185)	30.165	7617	0.859	0.859	1.225043
88	93 (174,181)	30.541	37791	5.847	5.847	0.892474
89	94 (177)	30.815	17641	3.106	3.106	0.784209
90	95 (156,171)	31.124	8582	1.444	1.444	0.820749
91	96 (157,202)	31.392	5148	0.121	0.121	5.889830
92	98 (173)	31.565	563	0.069	0.069	1.119800
93	99 (201)	31.944	4053	0.713	0.713	0.785123
94	100 (172,204)	32.194	5471	1.023	1.023	0.738343
95	101 (192,197)	32.504	1006	0.201	0.201	0.690943
96	102 (180)	32.686	82958	11.147	11.147	1.027721
97	103 (193)	32.932	4425	0.768	0.768	0.796211
98	104 (191)	33.250	1280	0.219	0.219	0.806032
99	105 (200,169)	33.601	4999	0.786	0.786	0.878545
100	106 (170)	34.772	26885	2.339	2.339	1.587313
101	107 (190)	35.055	7029	0.768	0.768	1.264685
102	108 (198)	35.927	1804	0.219	0.219	1.136337
103	109 (199)	36.174	33713	7.675	7.675	0.606589
104	110 (196,203)	36.726	37865	7.858	7.858	0.665452
105	111 (189)	37.934	691	0.073	0.073	1.308615
106	112 (195)	39.485	12585	1.010	1.010	1.720076
107	113 (208)	40.019	1950	0.451	0.451	0.596660
108	114 (207)	40.996	1503	0.170	0.170	1.220984

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.426	34773	3.289	3.289	1.459884
110	116 (205)	43.344	1624	0.201	0.201	1.115686
111	I.S. (OCN)	47.015	131650	18.180	18.180	7241.468157
112	117 (206)	48.571	11781	1.242	1.242	1.309488
113	118 (209)	54.726	236	0.022	0.022	1.469759



Sample Name: ICAL0506E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 5/6/2009 11:34:24 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_050609  
LIMS File ID:

Sample Name: ICAL0506E

1 of 1



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Sample Name: ICAL0506E Sample Amount: 1  
 Sample ID: ICAL 627 ng/mL Dilution: 1  
 Date Acquired: 05/06/2009 23:34:24 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 05/07/2009 14:13:02 EDT  
 Sample Set Name: GC16\_CC\_050609 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_050609 Current Date: 05/12/2009  
 Run Time: 60.0 Minutes Current Time: 15:22:52 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-664-7

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792				
2	3 (2)	12.829				
3	4 (3)	12.937				
4	5 (4,10)	13.544	5570	12.426	12.426	0.059125
5	6 (7,9)	14.414				
6	7 (6)	14.723				
7	8 (5,8)	14.915				
8	9 (14)	15.477				
9	10 (19)	15.559	2460	1.024	1.024	0.316962
10	11 (30)	16.031				
11	12 (11)	16.090				
12	13 (12,13)	16.303				
13	14 (15,18)	16.421				
14	15 (17)	16.509				
15	16 (24,27)	16.809	3765	0.950	0.950	0.522909
16	17 (16,32)	17.078				
17	19 (23,34,54)	17.526				
18	20 (29)	17.706				
19	21 (26)	17.829				
20	22 (25)	17.915				
21	23 (31)	18.114				
22	24 (28,50)	18.165				
23	25 (20,21,33,53)	18.517				
24	26 (22,51)	18.752				
25	27 (45)	18.982				
26	28 (36)	19.118				
27	29 (46)	19.257				
28	30 (39)	19.384				

**Peak Results**

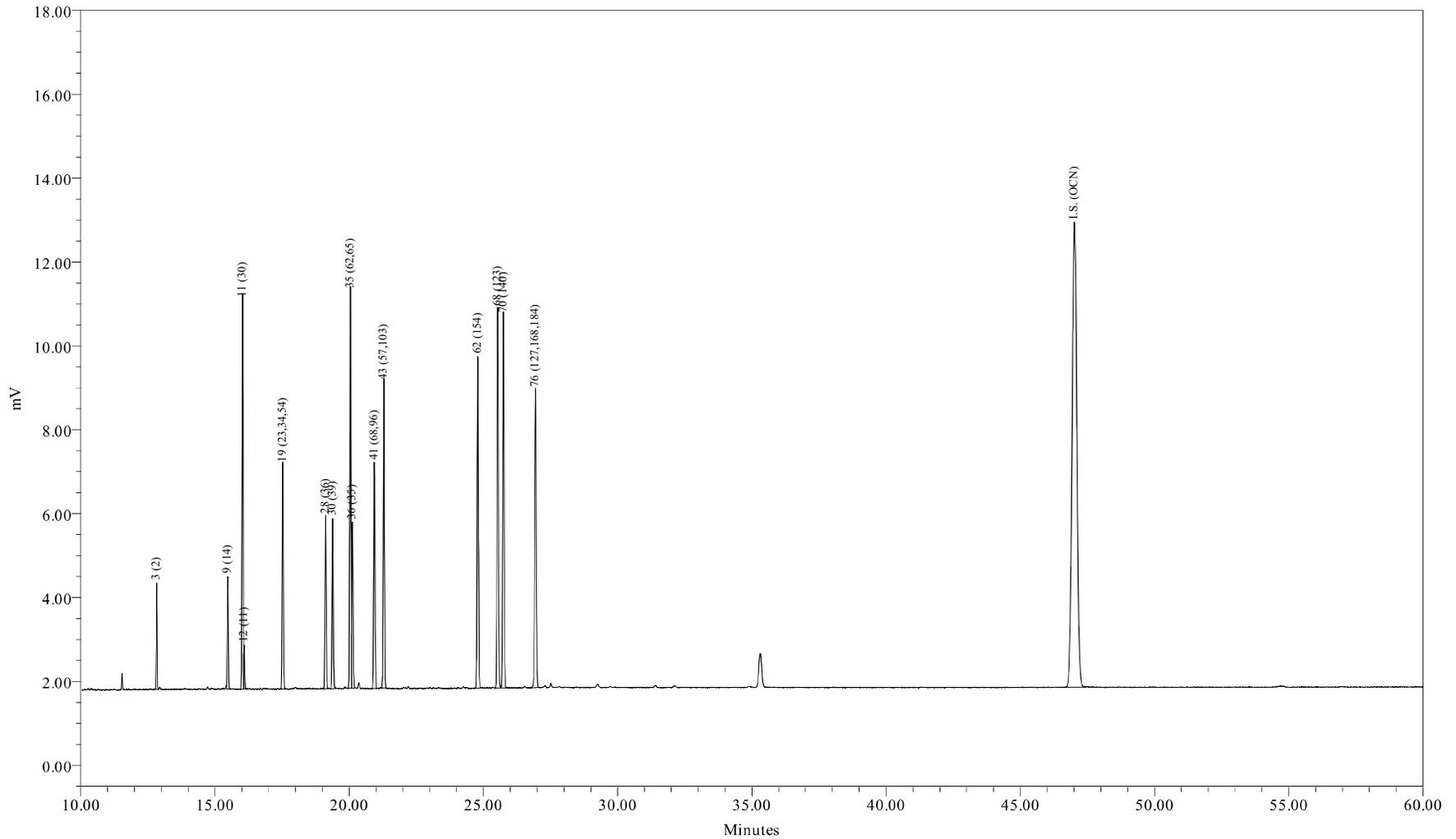
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552				
30	32 (43,49)	19.721				
31	33 (38,47)	19.837				
32	34 (48,75)	19.901				
33	35 (62,65)	20.044				
34	36 (35)	20.122				
35	37 (104,44)	20.294				
36	38 (37,42,59)	20.426				
37	39 (41,64,71,72)	20.774				
38	41 (68,96)	20.936				
39	42 (40)	21.035				
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.455				
42	45 (63)	21.622				
43	46 (74,94,61)	21.791				
44	47 (70)	21.924				
45	48 (66,76,98,80,93,95,102,88)	22.041				
46	49 (55,91,121)	22.344				
47	50 (56,60)	22.647				
48	51 (84,92,155)	22.891				
49	52 (89)	22.995				
50	53 (90,101)	23.147				
51	54 (79,99,113)	23.344				
52	55 (119,150)	23.626				
53	56 (78,83,112,108)	23.717				
54	57 (97,152,86)	23.931				
55	58 (81,87,117,125,115,145)	24.107				
56	59 (116,85,111)	24.259				
57	60 (120,136)	24.384				
58	61 (77,110,148)	24.511				
59	62 (154)	24.791				
60	63 (82)	24.880				
61	64 (151)	25.179				
62	65 (124,135)	25.312				
63	66 (144)	25.377				
64	67 (107,109,147)	25.452				
65	68 (123)	25.532				
66	69 (106,118,139,149)	25.631				
67	70 (140)	25.744				
68	71 (114,134,143)	26.040				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.248				
70	73 (146,165,188)	26.538				
71	74 (105,132,161)	26.660				
72	75 (153)	26.825				
73	76 (127,168,184)	26.937				
74	77 (141)	27.361				
75	78 (179)	27.433				
76	79 (137)	27.653				
77	80 (130,176)	27.808				
78	82 (138,163,164)	28.032				
79	83 (158,160,186)	28.222				
80	84 (126,129)	28.428				
81	85 (166,178)	28.776				
82	87 (175,159)	29.091				
83	88 (182,187)	29.240				
84	89 (128,162)	29.370				
85	90 (183)	29.550				
86	91 (167)	29.835				
87	92 (185)	30.167				
88	93 (174,181)	30.540				
89	94 (177)	30.815				
90	95 (156,171)	31.121				
91	96 (157,202)	31.386				
92	98 (173)	31.560				
93	99 (201)	31.939				
94	100 (172,204)	32.196				
95	101 (192,197)	32.501				
96	102 (180)	32.688				
97	103 (193)	32.938				
98	104 (191)	33.244				
99	105 (200,169)	33.599				
100	106 (170)	34.779				
101	107 (190)	35.054				
102	108 (198)	35.933				
103	109 (199)	36.175				
104	110 (196,203)	36.725				
105	111 (189)	37.915				
106	112 (195)	39.489				
107	113 (208)	40.023				
108	114 (207)	40.984				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.426				
110	116 (205)	43.327				
111	I.S. (OCN)	47.024	137822	18.180	18.180	7580.988142
112	117 (206)	48.575				
113	118 (209)	54.726				



Sample Name: SC0506A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 5/7/2009 1:49:45 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_050609  
LIMS File ID:

Sample Name: SC0506A

1 of 1



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Sample Name: SC0506A Sample Amount: 1  
 Sample ID: SUP CONG STD 200/5 ng/mL Dilution: 1  
 Date Acquired: 05/07/2009 01:49:45 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 05/07/2009 14:13:09 EDT  
 Sample Set Name: GC16\_CC\_050609 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_050609 Current Date: 05/12/2009  
 Run Time: 60.0 Minutes Current Time: 15:23:02 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-664-9

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792				
2	3 (2)	12.830	4889	200.000	200.000	0.003220
3	4 (3)	12.937				
4	5 (4,10)	13.544				
5	6 (7,9)	14.414				
6	7 (6)	14.723				
7	8 (5,8)	14.915				
8	9 (14)	15.478	6446	5.000	5.000	0.169848
9	10 (19)	15.561				
10	11 (30)	16.029	23245	5.000	5.000	0.612513
11	12 (11)	16.090	2301	5.000	5.000	0.060620
12	13 (12,13)	16.303				
13	14 (15,18)	16.421				
14	15 (17)	16.509				
15	16 (24,27)	16.806				
16	17 (16,32)	17.078				
17	19 (23,34,54)	17.526	14384	5.000	5.000	0.379022
18	20 (29)	17.706				
19	21 (26)	17.829				
20	22 (25)	17.915				
21	23 (31)	18.114				
22	24 (28,50)	18.165				
23	25 (20,21,33,53)	18.517				
24	26 (22,51)	18.752				
25	27 (45)	18.982				
26	28 (36)	19.119	11586	5.000	5.000	0.305306
27	29 (46)	19.257				
28	30 (39)	19.384	11423	5.000	5.000	0.300993

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552				
30	32 (43,49)	19.721				
31	33 (38,47)	19.837				
32	34 (48,75)	19.901				
33	35 (62,65)	20.044	27830	5.000	5.000	0.733346
34	36 (35)	20.123	11364	5.000	5.000	0.299442
35	37 (104,44)	20.294				
36	38 (37,42,59)	20.426				
37	39 (41,64,71,72)	20.774				
38	41 (68,96)	20.936	15848	5.000	5.000	0.417595
39	42 (40)	21.035				
40	43 (57,103)	21.291	21765	5.000	5.000	0.573509
41	44 (58,67,100)	21.455				
42	45 (63)	21.622				
43	46 (74,94,61)	21.791				
44	47 (70)	21.924				
45	48 (66,76,98,80,93,95,102,88)	22.041				
46	49 (55,91,121)	22.344				
47	50 (56,60)	22.647				
48	51 (84,92,155)	22.891				
49	52 (89)	22.995				
50	53 (90,101)	23.147				
51	54 (79,99,113)	23.344				
52	55 (119,150)	23.626				
53	56 (78,83,112,108)	23.717				
54	57 (97,152,86)	23.931				
55	58 (81,87,117,125,115,145)	24.107				
56	59 (116,85,111)	24.259				
57	60 (120,136)	24.384				
58	61 (77,110,148)	24.511				
59	62 (154)	24.792	25765	5.000	5.000	0.678919
60	63 (82)	24.880				
61	64 (151)	25.179				
62	65 (124,135)	25.312				
63	66 (144)	25.377				
64	67 (107,109,147)	25.452				
65	68 (123)	25.533	29680	5.000	5.000	0.782084
66	69 (106,118,139,149)	25.631				
67	70 (140)	25.744	30054	5.000	5.000	0.791949
68	71 (114,134,143)	26.040				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.248				
70	73 (146,165,188)	26.538				
71	74 (105,132,161)	26.660				
72	75 (153)	26.825				
73	76 (127,168,184)	26.937	26893	5.000	5.000	0.708641
74	77 (141)	27.361				
75	78 (179)	27.433				
76	79 (137)	27.653				
77	80 (130,176)	27.808				
78	82 (138,163,164)	28.032				
79	83 (158,160,186)	28.222				
80	84 (126,129)	28.428				
81	85 (166,178)	28.776				
82	87 (175,159)	29.091				
83	88 (182,187)	29.240				
84	89 (128,162)	29.370				
85	90 (183)	29.550				
86	91 (167)	29.835				
87	92 (185)	30.167				
88	93 (174,181)	30.540				
89	94 (177)	30.815				
90	95 (156,171)	31.121				
91	96 (157,202)	31.386				
92	98 (173)	31.560				
93	99 (201)	31.939				
94	100 (172,204)	32.196				
95	101 (192,197)	32.501				
96	102 (180)	32.688				
97	103 (193)	32.938				
98	104 (191)	33.244				
99	105 (200,169)	33.599				
100	106 (170)	34.779				
101	107 (190)	35.054				
102	108 (198)	35.933				
103	109 (199)	36.175				
104	110 (196,203)	36.725				
105	111 (189)	37.915				
106	112 (195)	39.489				
107	113 (208)	40.023				
108	114 (207)	40.984				

**Peak Results**

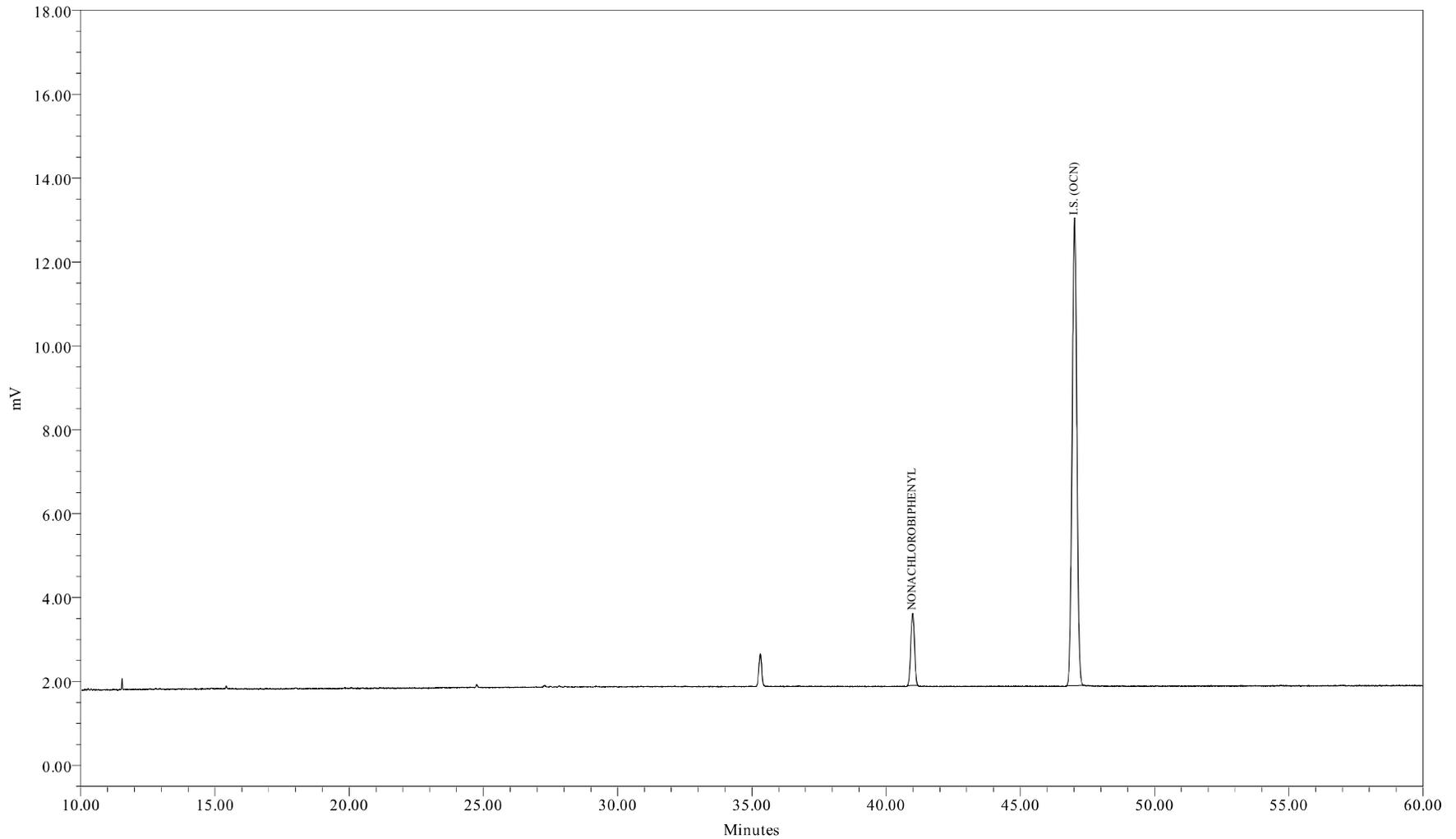
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.426				
110	116 (205)	43.327				
111	I.S. (OCN)	47.005	137985	18.180	18.180	7589.946625
112	117 (206)	48.575				
113	118 (209)	54.726				



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Sample Name: SS0506A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 5/7/2009 2:57:27 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_2\_050609  
LIMS File ID:

Sample Name: SS0506A

1 of 1

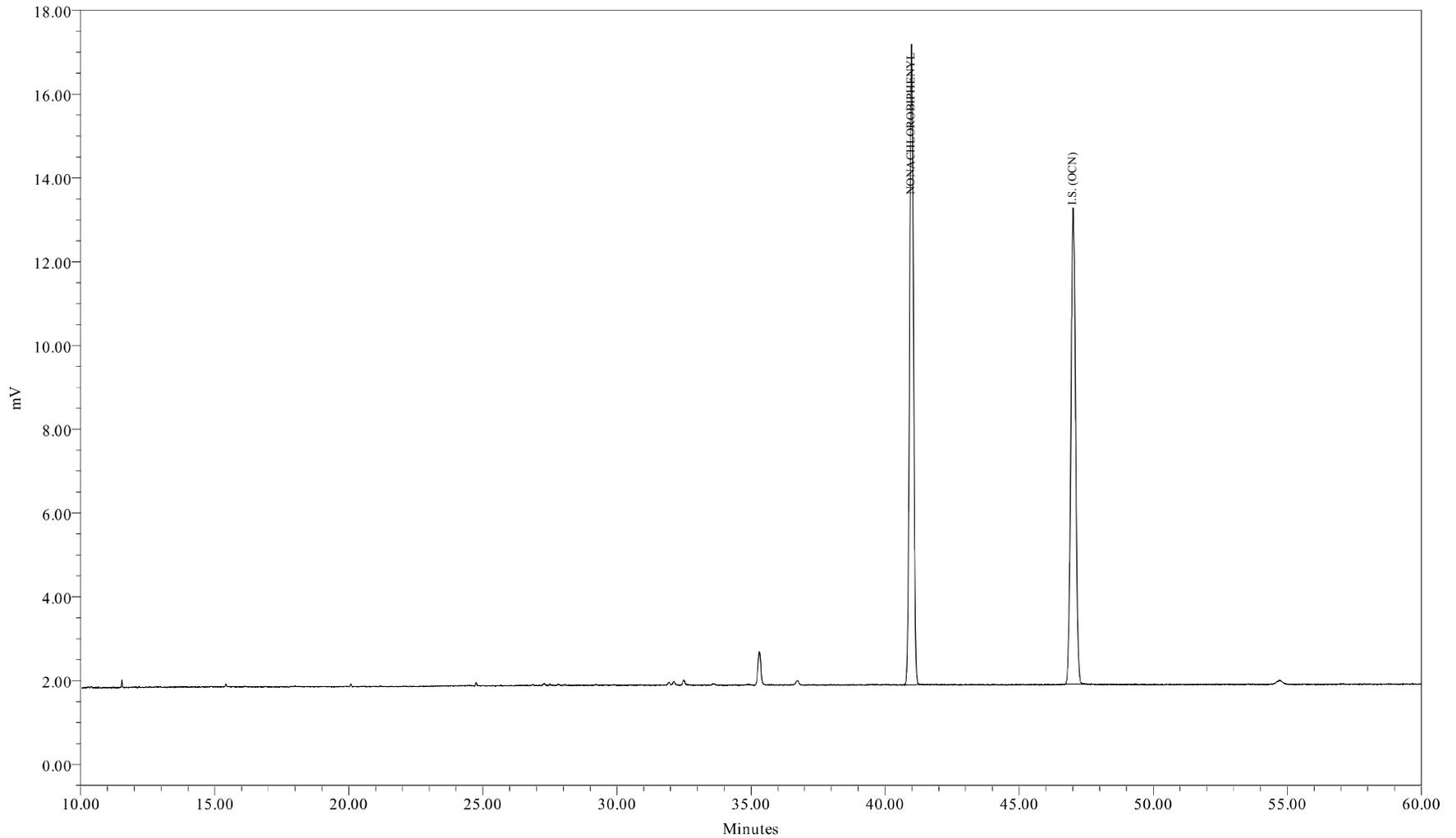


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Sample Name: SS0506A Sample Amount: 1  
Sample ID: Surr Std (207) 2.0 ng/mL Dilution: 1  
Date Acquired: 05/07/2009 02:57:27 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 05/07/2009 15:01:53 EDT  
Sample Set Name: GC16\_CC\_050609 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_2\_050609 Current Date: 05/12/2009  
Run Time: 60.0 Minutes Current Time: 15:23:11 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-664-10

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.989	16351	2.000	2.000	1.087935
2	I.S. (OCN)	47.023	136621	18.180	18.180	7514.891985



Sample Name: SS0506B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 5/7/2009 4:05:12 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_20\_050609  
LIMS File ID:

Sample Name: SS0506B

1 of 1



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Sample Name: SS0506B Sample Amount: 1  
Sample ID: Surr Std (207) 20.0 ng/mL Dilution: 1  
Date Acquired: 05/07/2009 04:05:12 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 05/07/2009 15:04:56 EDT  
Sample Set Name: GC16\_CC\_050609 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_20\_050609 Current Date: 05/12/2009  
Run Time: 60.0 Minutes Current Time: 15:23:12 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-664-11

**Peak Results**

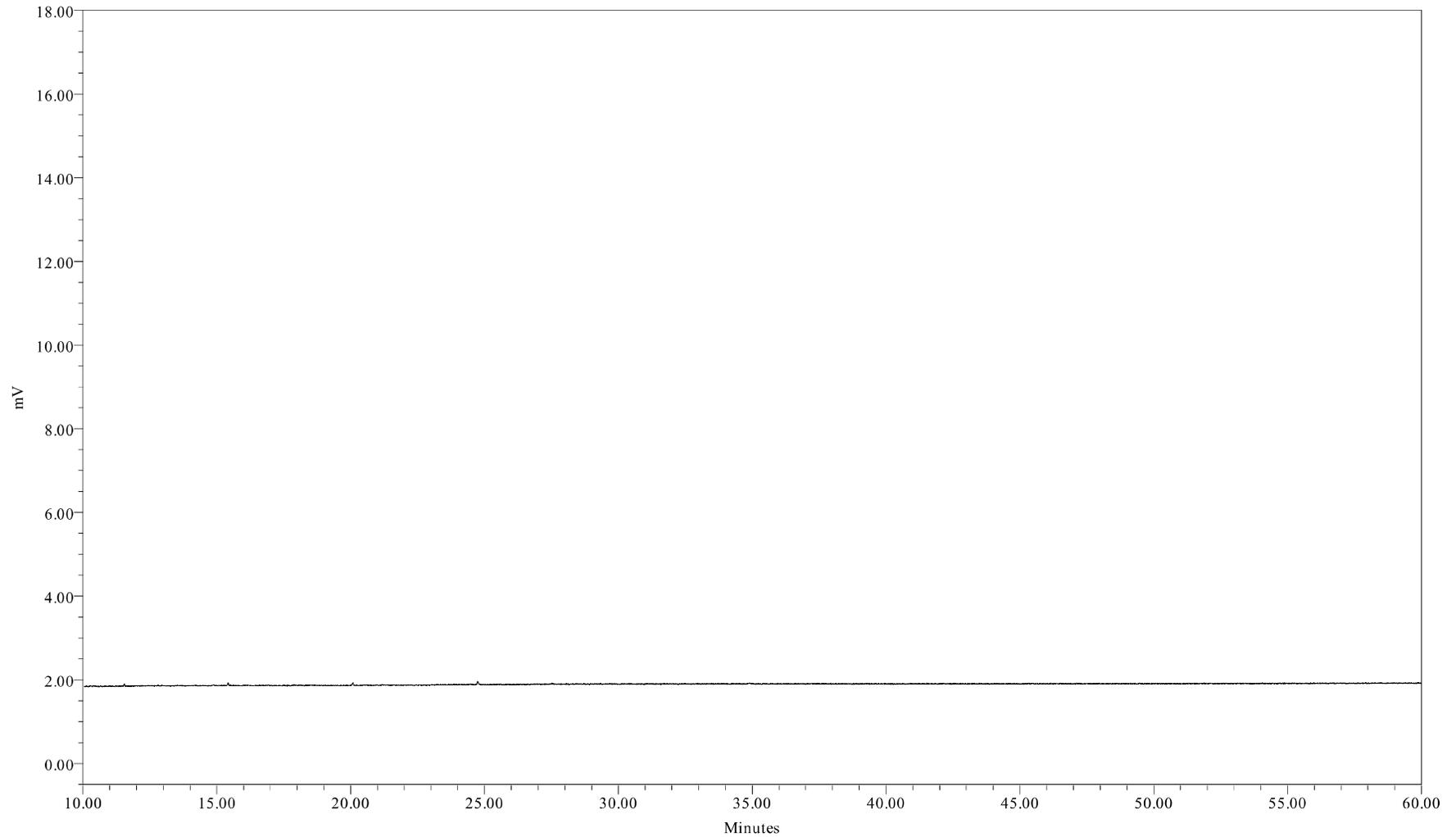
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.990	151773	20.000	20.000	0.991062
2	I.S. (OCN)	47.008	139206	18.180	18.180	7657.101195



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Sample Name: 090506B04  
Sample ID: HEXANE BLANK  
Date Acquired: 5/7/2009 5:12:58 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_050609  
LIMS File ID:

Sample Name: 090506B04

1 of 1

**Northeast Analytical, Inc.**  
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: Northeast Analytical, Inc. SGD NO: 09050311  
 ELAP ID No: 11078  
 INSTRUMENT ID: GC16  
 GC COLUMN: Agilent DB-1; 30 meter; 0.25 micron phase thickness

**Continuing Calibration Standard CCCS0530C**

Lab File ID:	<u>GC16-691-12</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>05/30/2009</u>	Calculated Amount:	<u>119 ng/ml</u>
Time:	<u>21:03:58</u>	OCN (I.S.) Peak Area:	<u>159617</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>118</u>

**Continuing Calibration Standard CCCS0530D**

Lab File ID:	<u>GC16-691-18</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>05/31/2009</u>	Calculated Amount:	<u>117 ng/ml</u>
Time:	<u>03:47:46</u>	OCN (I.S.) Peak Area:	<u>159227</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>118</u>

Lab File ID:	<u>  </u>	Known Amount:	<u>  </u>
Date:	<u>  </u>	Calculated Amount:	<u>  </u>
Time:	<u>  </u>	OCN (I.S.) Peak Area:	<u>  </u>
		% Recovery of I.S. ( 50 - 150 %):	<u>  </u>

# Northeast Analytical, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0530C File ID: GC16-691-12		Continuing Calibration CCCS0530D File ID: GC16-691-18		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.18	-12.2	1.16	-13.9		
37 (104,44)	3.06	+/-15	3.07	0.333	3.01	-1.53		
47 (70)	2.42	+/-15	2.35	-2.96	2.27	-6.17		
93 (174,181)	2.28	+/-15	2.22	-2.55	2.20	-3.62		
102 (180)	4.35	+/-15	4.24	-2.53	4.21	-3.12		
116 (205)	0.0788	+/-30	0.0786	-0.294	0.0769	-2.44		
Total CCCS Conc.	122	+/-15	119	-2.73	117	-4.39		

### Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0530C	1621 uV	810.5 uV	404 uV
CCCS0530D	1605 uV	802.5 uV	392 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0530C	2020 uV	673.3 uV	56 uV
CCCS0530D	1989 uV	663 uV	56 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0530C	CCCS0530C File ID: GC16-691-12		CCCS0530D File ID: GC16-691-18		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.79		11.79			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.93		12.93			
4	5 (4,10)	+/-0.07	13.54		13.54			
5	6 (7,9)	+/-0.07	14.41		14.41			
6	7 (6)	+/-0.07	14.72		14.72			
7	8 (5,8)	+/-0.07	14.91		14.91			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.56		15.55			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.28		16.28			
13	14 (15,18)	+/-0.07	16.42		16.42			
14	15 (17)	+/-0.07	16.51		16.50			
15	16 (24,27)	+/-0.07	16.80		16.80			
16	17 (16,32)	+/-0.07	17.06		17.06			
17	19 (23,34,54)	+/-0.07	17.52		17.53			
18	20 (29)	+/-0.07	17.70		17.70			
19	21 (26)	+/-0.07	17.83		17.83			
20	22 (25)	+/-0.07	17.91		17.91			
21	23 (31)	+/-0.07	18.11		18.11			
22	24 (28,50)	+/-0.07	18.16		18.16			
23	25 (20,21,33,53)	+/-0.07	18.51		18.51			
24	26 (22,51)	+/-0.07	18.75		18.75			
25	27 (45)	+/-0.07	18.97		18.98			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.25		19.25			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.55		19.55			
30	32 (43,49)	+/-0.07	19.72		19.72			
31	33 (38,47)	+/-0.07	19.83		19.83			
32	34 (48,75)	+/-0.07	19.90		19.90			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.11		20.12			
35	37 (104,44)	+/-0.07	20.29		20.29			
36	38 (37,42,59)	+/-0.07	20.42		20.42			
37	39 (41,64,71,72)	+/-0.07	20.77		20.77			
38	41 (68,96)	+/-0.07	20.93		20.93			
39	42 (40)	+/-0.07	21.03		21.03			
40	43 (57,103)	+/-0.07	21.28		21.28			
41	44 (58,67,100)	+/-0.07	21.46		21.46			
42	45 (63)	+/-0.07	21.61		21.61			
43	46 (74,94,61)	+/-0.07	21.79		21.79			
44	47 (70)	+/-0.07	21.92		21.92			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	22.04		22.03			
46	49 (55,91,121)	+/-0.07	22.33		22.34			
47	50 (56,60)	+/-0.07	22.64		22.64			
48	51 (84,92,155)	+/-0.07	22.88		22.88			
49	52 (89)	+/-0.07	22.98		22.99			
50	53 (90,101)	+/-0.07	23.14		23.14			
51	54 (79,99,113)	+/-0.07	23.34		23.34			
52	55 (119,150)	+/-0.07	23.62		23.62			
53	56 (78,83,112,108)	+/-0.07	23.71		23.71			
54	57 (97,152,86)	+/-0.07	23.92		23.92			
55	58 (81,87,117,125,115,145)	+/-0.07	24.10		24.10			
56	59 (116,85,111)	+/-0.07	24.25		24.25			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0530C	CCCS0530C File ID: GC16-691-12		CCCS0530D File ID: GC16-691-18		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	24.38		24.37			
58	61 (77,110,148)	+/-0.07	24.51		24.51			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.88		24.88			
61	64 (151)	+/-0.07	25.17		25.17			
62	65 (124,135)	+/-0.07	25.31		25.31			
63	66 (144)	+/-0.07	25.37		25.37			
64	67 (107,109,147)	+/-0.07	25.44		25.44			
65	68 (123)	+/-0.07	25.52		25.53			
66	69 (106,118,139,149)	+/-0.07	25.62		25.62			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	26.03		26.03			
69	72 (122,131,133,142)	+/-0.07	26.26		26.23			
70	73 (146,165,188)	+/-0.07	26.53		26.53			
71	74 (105,132,161)	+/-0.07	26.66		26.66			
72	75 (153)	+/-0.07	26.82		26.82			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.36		27.35			
75	78 (179)	+/-0.07	27.43		27.43			
76	79 (137)	+/-0.07	27.65		27.64			
77	80 (130,176)	+/-0.07	27.80		27.79			
78	82 (138,163,164)	+/-0.07	28.03		28.03			
79	83 (158,160,186)	+/-0.07	28.21		28.21			
80	84 (126,129)	+/-0.07	28.42		28.42			
81	85 (166,178)	+/-0.07	28.77		28.77			
82	87 (175,159)	+/-0.07	29.07		29.08			
83	88 (182,187)	+/-0.07	29.22		29.22			
84	89 (128,162)	+/-0.07	29.34		29.35			
85	90 (183)	+/-0.07	29.54		29.54			
86	91 (167)	+/-0.07	29.80		29.82			
87	92 (185)	+/-0.07	30.15		30.15			
88	93 (174,181)	+/-0.07	30.53		30.53			
89	94 (177)	+/-0.07	30.80		30.80			
90	95 (156,171)	+/-0.07	31.11		31.11			
91	96 (157,202)	+/-0.07	31.38		31.37			
92	98 (173)	+/-0.07	31.56		31.55			
93	99 (201)	+/-0.07	31.93		31.93			
94	100 (172,204)	+/-0.07	32.19		32.18			
95	101 (192,197)	+/-0.07	32.48		32.47			
96	102 (180)	+/-0.07	32.67		32.67			
97	103 (193)	+/-0.07	32.92		32.92			
98	104 (191)	+/-0.07	33.24		33.22			
99	105 (200,169)	+/-0.07	33.59		33.59			
100	106 (170)	+/-0.07	34.76		34.76			
101	107 (190)	+/-0.07	35.04		35.04			
102	108 (198)	+/-0.07	35.91		35.92			
103	109 (199)	+/-0.07	36.16		36.16			
104	110 (196,203)	+/-0.07	36.71		36.70			
105	111 (189)	+/-0.07	37.88		37.89			
106	112 (195)	+/-0.07	39.47		39.49			
107	113 (208)	+/-0.07	40.02		40.01			
108	114 (207)	+/-0.07	40.98		40.94			
109	115 (194)	+/-0.07	42.40		42.40			
110	116 (205)	+/-0.07	43.33		43.33			
111	117 (206)	+/-0.07	48.56		48.56			
112	118 (209)	+/-0.07	54.73		54.75			

# Standards Summary Tables (GC-24)



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
Phone: (518) 346-4592 Fax: (518) 381-6055  
www.nealab.com

Sample Set Name: GC24\_CC\_051909  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 5/20/2009 12:45:29 AM EDT  
Current Date: 5/21/2009  
Report Name: CSGB\_SumRpt\_OCNArea

**ICAL OCN Area Summary Report**

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0519A	ICAL 6.25 ng/mL	5/20/2009 3:01:51 AM EDT	115508
2	ICAL0519B	ICAL 12.5 ng/mL	5/20/2009 4:07:16 AM EDT	113259
3	ICAL0519C	ICAL 125 ng/mL	5/20/2009 5:12:42 AM EDT	120264
4	ICAL0519D	ICAL 314 ng/mL	5/20/2009 6:18:07 AM EDT	113677
5	ICAL0519E	ICAL 627 ng/mL	5/20/2009 7:23:30 AM EDT	115526
Mean				115647



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

System Name: Instrument\_24 Date Calibrated: 5/20/2009 11:56:25 PM EDT  
 Sample Set Name: GC24\_CC\_051909 Method Report: CSGB CCSum by RF  
 Sample Set Date: 5/20/2009 12:45:29 AM EDT User Name: Amy Jo Arndt (AmyJoA)  
 Processing Method: CSGB\_LL1X\_051909

**Calibration Component Summary Table**  
**Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)	12 (11)
1	ICAL0519A	0.032701		0.014260	0.074641	0.531596	0.258880	0.145949				
2	ICAL0519B	0.035623		0.014948	0.079209	0.562511	0.299401	0.157068		0.323895		
3	ICAL0519C	0.032189		0.016288	0.074828	0.497221	0.249550	0.128791		0.382629		
4	ICAL0519D	0.030565		0.016197	0.073546	0.480311	0.234250	0.123200		0.381492		
5	ICAL0519E				0.068985					0.373668		
6	SC0519A		0.003728						0.180830		0.665724	0.063731
Mean		0.033	0.004	0.015	0.074	0.518	0.261	0.139	0.181	0.365	0.666	0.064
Std. Dev.		0.002		0.001	0.004	0.037	0.028	0.016		0.028		
% RSD		6.44		6.40	4.92	7.07	10.69	11.23		7.65		

**Calibration Component Summary Table**  
**Component Summary For RF**

	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)	24 (28,50)
1		0.509255	0.195531	0.658608	0.392257			0.473617	0.612551	0.670453	0.697306
2	0.311469	0.481604	0.231583	0.720465	0.386268		0.689968	0.438938	0.535220	0.682429	0.716202
3	0.350407	0.406244	0.194232	0.605589	0.344358		0.654986	0.457836	0.593239	0.561191	0.616725
4	0.386280	0.390223	0.185310	0.637637	0.326894		0.680215	0.437865	0.575715	0.521189	0.588396
5				0.599053							
6						0.400202					
Mean	0.349	0.447	0.202	0.644	0.362	0.400	0.675	0.452	0.579	0.609	0.655
Std. Dev.	0.037	0.058	0.020	0.049	0.032		0.018	0.017	0.033	0.080	0.062
% RSD	10.71	12.89	10.14	7.60	8.79		2.67	3.77	5.69	13.13	9.43

**Calibration Component Summary Table**  
**Component Summary For RF**

	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)	34 (48,75)	35 (62,65)
1	0.537784	0.534519	0.489242		0.545204		0.429412	0.827587	1.155859	0.931970	
2	0.557426	0.528497	0.537424		0.395815		0.435869	0.845528		0.877721	
3	0.478875	0.456102	0.512914		0.460900		0.376288	0.745600	1.092150	0.779695	
4	0.453664	0.433349	0.485167		0.433191		0.351580	0.703633	0.987210	0.713773	
5											
6				0.310499		0.304119					0.798101
Mean	0.507	0.488	0.506	0.310	0.459	0.304	0.398	0.781	1.078	0.826	0.798
Std. Dev.	0.049	0.051	0.024		0.063		0.041	0.067	0.085	0.098	

**Calibration Component Summary Table  
Component Summary For RF**

	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)	34 (48,75)	35 (62,65)
% RSD	9.61	10.45	4.77		13.84		10.30	8.62	7.90	11.83	

**Calibration Component Summary Table  
Component Summary For RF**

	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)	45 (63)	46 (74,94,61)
1		0.677929	0.540900	0.849862		0.607076			0.968206	1.301996
2		0.722494	0.559923	0.879519		0.556951		0.832497	0.776727	1.294494
3		0.585726	0.471125	0.755367		0.635094		0.926655	0.904329	1.106475
4		0.547992	0.443883	0.709365		0.592131		0.863402	0.841010	1.053355
5										
6	0.297423				0.422509		0.586988			
Mean	0.297	0.634	0.504	0.799	0.423	0.598	0.587	0.874	0.873	1.189
Std. Dev.		0.081	0.055	0.080		0.033		0.048	0.082	0.128
% RSD		12.72	10.98	9.97		5.44		5.49	9.44	10.76

**Calibration Component Summary Table  
Component Summary For RF**

	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)	53 (90,101)	54 (79,99,113)	
1	1.037323		0.716609	0.833499	1.056863	0.352568		0.754445	1.215887
2	1.029744		0.684181	0.744363	1.063910	0.322250	0.712683	0.836571	1.285500
3	0.889367		0.593796	0.706887	0.895220	0.350620	0.723003	0.753347	1.176137
4	0.834610		0.554887	0.657445	0.852205	0.323222	0.647455	0.691109	1.073776
5									
6									
Mean	0.948		0.637	0.736	0.967	0.337	0.694	0.759	1.188
Std. Dev.	0.102		0.076	0.074	0.109	0.017	0.041	0.060	0.088
% RSD	10.72		11.87	10.11	11.30	4.95	5.90	7.86	7.45

**Calibration Component Summary Table  
Component Summary For RF**

	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)	60 (120,136)	61 (77,110,148)	
1			1.047645		0.924048	1.056556	1.083997	0.856854
2	1.750404	0.607228	0.988532		0.870128	1.090907	0.956474	0.849647
3	1.899943	0.702747	1.008825		0.853374	1.025562	0.847203	0.745139
4	1.637212	0.661522	0.939696		0.788100	0.979317	0.795367	0.694890
5								
6								
Mean	1.763	0.657	0.996		0.859	1.038	0.921	0.787
Std. Dev.	0.132	0.048	0.045		0.056	0.047	0.128	0.080
% RSD	7.48	7.29	4.51		6.52	4.57	13.89	10.13

**Calibration Component Summary Table  
Component Summary For RF**

	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)	69 (106,118,139,149)	70 (140)
1		0.767312	0.947097	1.469912	0.429047			1.062540	
2		0.905310	0.922601	1.587430	0.547757	0.746864		1.064306	

**Calibration Component Summary Table  
Component Summary For RF**

	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)	69 (106,118,139,149)	70 (140)
3		0.923689	0.815272	1.391560	0.536020	0.766414		0.907822	
4		0.874673	0.764332	1.380972	0.485862	0.643012		0.842589	
5									
6	0.693516						0.804415		0.816790
Mean	0.694	0.868	0.862	1.457	0.500	0.719	0.804	0.969	0.817
Std. Dev.		0.070	0.087	0.095	0.054	0.066		0.112	
% RSD		8.06	10.07	6.54	10.85	9.23		11.54	

**Calibration Component Summary Table  
Component Summary For RF**

	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)	76 (127,168,184)	77 (141)	78 (179)
1	0.955047		0.845478	1.146729	1.266991		0.725337	0.762881
2	0.940886	1.505490	1.056948	1.310901	1.310995		0.780203	0.960735
3	1.014576	1.412708	0.985080	1.244623	1.114454		0.713308	0.845949
4	0.968429	1.601538	0.946114	1.157982	1.037880		0.651692	0.779644
5								
6						0.711537		
Mean	0.970	1.507	0.958	1.215	1.183	0.712	0.718	0.837
Std. Dev.	0.032	0.094	0.088	0.077	0.128		0.053	0.090
% RSD	3.29	6.27	9.20	6.37	10.83		7.35	10.72

**Calibration Component Summary Table  
Component Summary For RF**

	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)	87 (175,159)	88 (182,187)	89 (128,162)
1		2.126652	1.207628	1.269474		0.670849		1.182546	
2	0.552376	2.128086	1.277972	1.211091	5.011101	0.560877	0.530807	1.198884	1.251130
3	0.555094	2.007793	1.057194	1.251996	5.228137	0.564860	0.625183	1.016742	1.405506
4	0.476035	1.768430	0.986010	1.142354	4.630207	0.531663	0.594554	0.951718	1.333478
5									
6									
Mean	0.528	2.008	1.132	1.219	4.956	0.582	0.584	1.087	1.330
Std. Dev.	0.045	0.169	0.134	0.056	0.303	0.061	0.048	0.122	0.077
% RSD	8.50	8.43	11.84	4.64	6.11	10.48	8.25	11.25	5.81

**Calibration Component Summary Table  
Component Summary For RF**

	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)	98 (173)	99 (201)	100 (172,204)
1	1.033866		1.200077	1.146693	0.866524	1.083934	6.322028		0.887410	1.089679
2	1.020188	1.532273	1.356916	1.089429	0.900809	0.944231	6.086169	1.402184	0.851869	0.870650
3	0.988686	1.595375	1.444156	0.982434	0.893274	0.984763	6.735016	1.308403	0.887960	0.879738
4	0.923452	1.338721	1.372793	0.931059	0.828783	0.920213	6.419408	1.185049	0.905992	0.855942
5										
6										
Mean	0.992	1.489	1.343	1.037	0.872	0.983	6.391	1.299	0.883	0.924
Std. Dev.	0.049	0.134	0.103	0.098	0.033	0.072	0.269	0.109	0.023	0.111

**Calibration Component Summary Table  
Component Summary For RF**

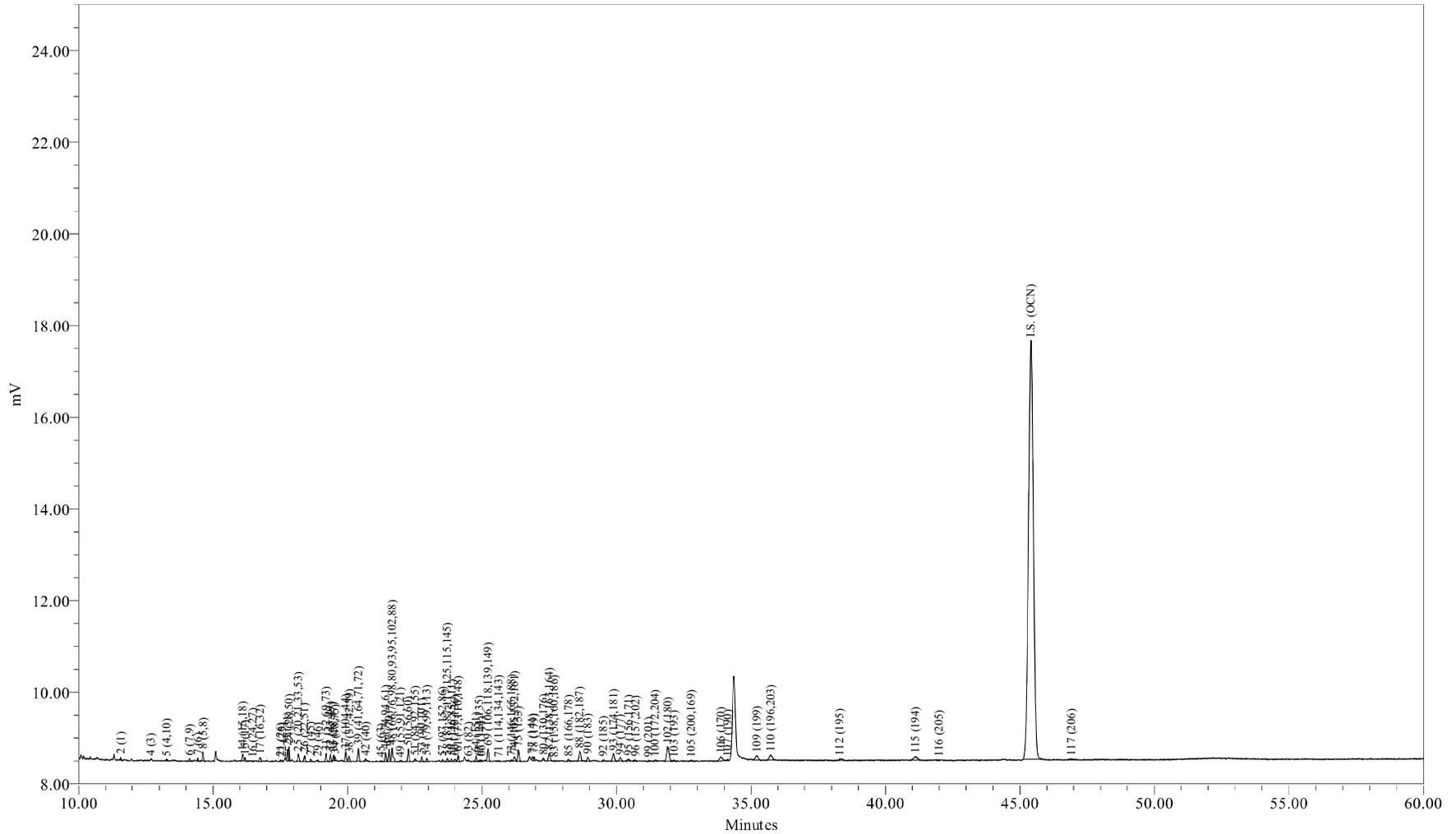
	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)	98 (173)	99 (201)	100 (172,204)
% RSD	4.96	8.98	7.66	9.47	3.73	7.34	4.21	8.39	2.57	12.00

**Calibration Component Summary Table  
Component Summary For RF**

	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)	108 (198)	109 (199)	110 (196,203)	111 (189)
1		1.351556	0.754223		1.051451	2.171353	1.166873		0.753773	0.850938	
2	0.839692	1.359305	0.810471	0.931893	0.946117	1.881771	1.186928	1.662372	0.767017	0.864528	1.875780
3	0.706563	1.161064	0.932155	0.871880	1.008903	1.738049	1.316736	1.793480	0.686178	0.739808	1.862511
4	0.741878	1.089379	0.888938	0.855658	0.971757	1.691392	1.461534	1.597722	0.642230	0.701422	1.705027
5											
6											
Mean	0.763	1.240	0.846	0.886	0.995	1.871	1.283	1.685	0.712	0.789	1.814
Std. Dev.	0.069	0.136	0.079	0.040	0.046	0.216	0.136	0.100	0.059	0.081	0.095
% RSD	9.04	10.98	9.39	4.53	4.61	11.56	10.62	5.92	8.23	10.25	5.24

**Calibration Component Summary Table  
Component Summary For RF**

	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1	1.984911			1.788471	1.220529	1.453446	
2	2.067736	0.595678	1.523566	1.850039	1.379985	1.552965	2.073059
3	2.017876	0.661639	1.423679	1.674666	1.362208	1.519662	2.108532
4	1.930349	0.693306	1.366176	1.558477	1.314935	1.497507	1.814449
5							
6							
Mean	2.000	0.650	1.438	1.718	1.319	1.506	1.999
Std. Dev.	0.058	0.050	0.080	0.129	0.071	0.042	0.161
% RSD	2.88	7.66	5.54	7.49	5.41	2.77	8.03



Sample Name: ICAL0519A  
Sample ID: ICAL 6.25 ng/mL  
Date Acquired: 5/20/2009 3:01:51 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID:

Sample Name: ICAL0519A

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0519A Sample Amount: 1  
Sample ID: ICAL 6.25 ng/mL Dilution: 1  
Date Acquired: 5/20/2009 3:01:51 AM EDT Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 5/20/2009 11:56:16 PM EDT  
Sample Set Name: GC24\_CC\_051909 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: CSGB\_LL1X\_051909 Current Date: 5/21/2009  
Run Time: 60.0 Minutes Current Time: 6:59:34 AM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID:

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.569	91	0.439	0.439	0.032701
2	3 (2)	12.578				
3	4 (3)	12.684	23	0.256	0.256	0.014260
4	5 (4,10)	13.278	59	0.124	0.124	0.074641
5	6 (7,9)	14.120	148	0.044	0.044	0.531596
6	7 (6)	14.434	114	0.069	0.069	0.258880
7	8 (5,8)	14.622	474	0.512	0.512	0.145949
8	9 (14)	15.175				
9	10 (19)	15.258				
10	11 (30)	15.717				
11	12 (11)	15.777				
12	13 (12,13)	15.977				
13	14 (15,18)	16.102	438	0.135	0.135	0.509255
14	15 (17)	16.190	168	0.135	0.135	0.195531
15	16 (24,27)	16.473	40	0.009	0.009	0.658608
16	17 (16,32)	16.748	355	0.143	0.143	0.392257
17	19 (23,34,54)	17.196				
18	20 (29)	17.373				
19	21 (26)	17.508	79	0.026	0.026	0.473617
20	22 (25)	17.574	46	0.012	0.012	0.612551
21	23 (31)	17.775	642	0.151	0.151	0.670453
22	24 (28,50)	17.824	854	0.193	0.193	0.697306
23	25 (20,21,33,53)	18.174	496	0.145	0.145	0.537784
24	26 (22,51)	18.405	360	0.106	0.106	0.534519
25	27 (45)	18.629	101	0.033	0.033	0.489242
26	28 (36)	18.768				
27	29 (46)	18.890	51	0.015	0.015	0.545204
28	30 (39)	19.029				

**Peak Results**

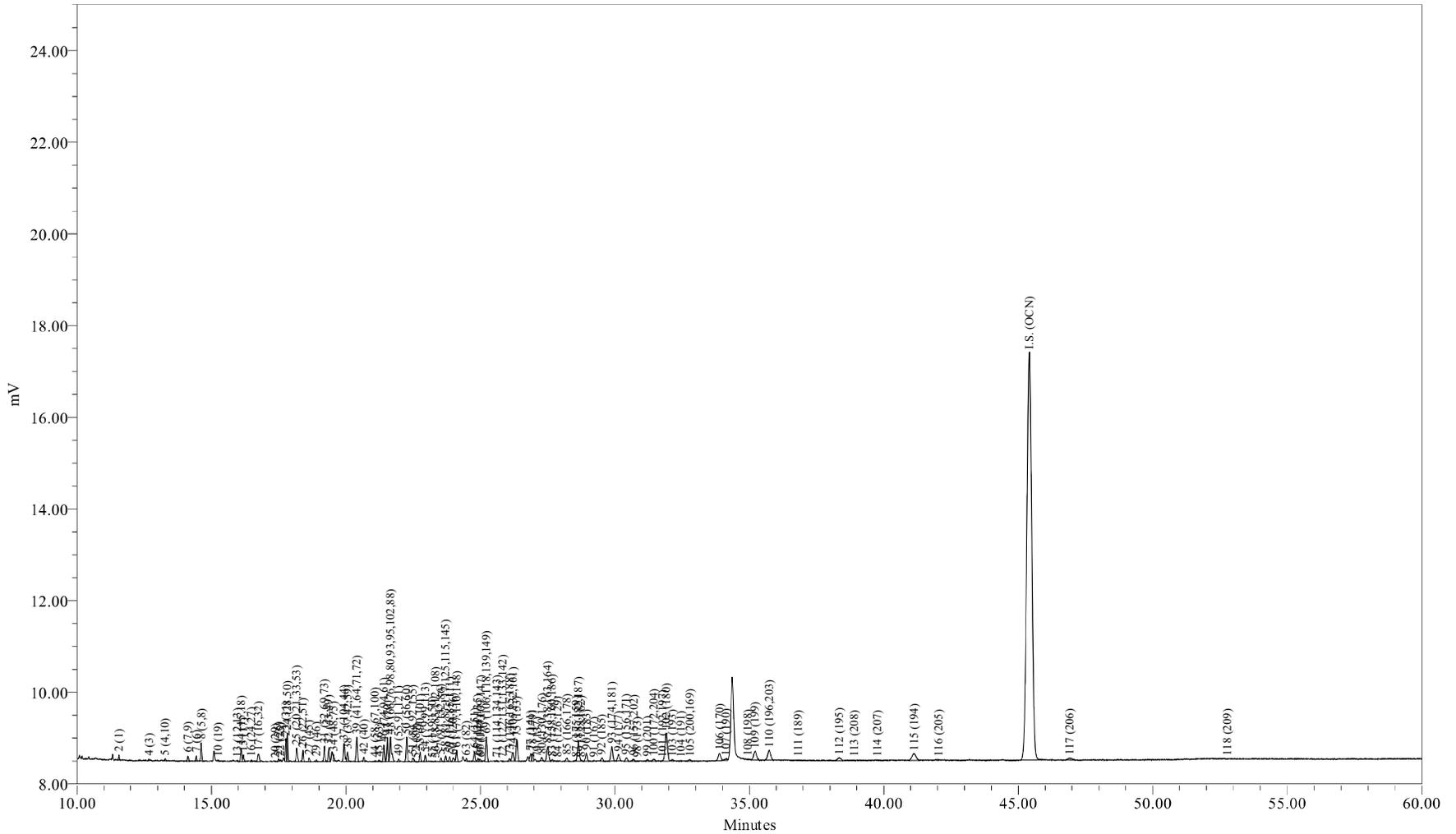
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.199	476	0.174	0.174	0.429412
30	32 (43,49)	19.366	442	0.084	0.084	0.827587
31	33 (38,47)	19.486	268	0.037	0.037	1.155859
32	34 (48,75)	19.528	216	0.037	0.037	0.931970
33	35 (62,65)	19.679				
34	36 (35)	19.759				
35	37 (104,44)	19.934	677	0.157	0.157	0.677929
36	38 (37,42,59)	20.059	327	0.095	0.095	0.540900
37	39 (41,64,71,72)	20.405	809	0.150	0.150	0.849862
38	41 (68,96)	20.572				
39	42 (40)	20.676	133	0.034	0.034	0.607076
40	43 (57,103)	20.925				
41	44 (58,67,100)	21.089				
42	45 (63)	21.245	47	0.008	0.008	0.968206
43	46 (74,94,61)	21.411	574	0.069	0.069	1.301996
44	47 (70)	21.545	819	0.124	0.124	1.037323
45	48 (66,76,98,80,93,95,102,88)	21.659	1198	0.263	0.263	0.716609
46	49 (55,91,121)	21.958	99	0.019	0.019	0.833499
47	50 (56,60)	22.262	859	0.128	0.128	1.056863
48	51 (84,92,155)	22.513	147	0.066	0.066	0.352568
49	52 (89)	22.615				
50	53 (90,101)	22.760	315	0.066	0.066	0.754445
51	54 (79,99,113)	22.944	209	0.027	0.027	1.215887
52	55 (119,150)	23.234				
53	56 (78,83,112,108)	23.327				
54	57 (97,152,86)	23.537	136	0.020	0.020	1.047645
55	58 (81,87,117,125,115,145)	23.709	249	0.042	0.042	0.924048
56	59 (116,85,111)	23.868	172	0.026	0.026	1.056556
57	60 (120,136)	23.991	189	0.027	0.027	1.083997
58	61 (77,110,148)	24.113	424	0.078	0.078	0.856854
59	62 (154)	24.394				
60	63 (82)	24.494	78	0.016	0.016	0.767312
61	64 (151)	24.776	374	0.062	0.062	0.947097
62	65 (124,135)	24.904	99	0.011	0.011	1.469912
63	66 (144)	24.978	60	0.022	0.022	0.429047
64	67 (107,109,147)	25.041				
65	68 (123)	25.129				
66	69 (106,118,139,149)	25.224	987	0.146	0.146	1.062540
67	70 (140)	25.334				
68	71 (114,134,143)	25.619	45	0.007	0.007	0.955047
69	72 (122,131,133,142)	25.817				
70	73 (146,165,188)	26.082	77	0.014	0.014	0.845478

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.202	361	0.050	0.050	1.146729
72	75 (153)	26.355	866	0.108	0.108	1.266991
73	76 (127,168,184)	26.465				
74	77 (141)	26.865	286	0.062	0.062	0.725337
75	78 (179)	26.935	259	0.053	0.053	0.762881
76	79 (137)	27.128				
77	80 (130,176)	27.279	128	0.009	0.009	2.126652
78	82 (138,163,164)	27.508	757	0.099	0.099	1.207628
79	83 (158,160,186)	27.686	74	0.009	0.009	1.269474
80	84 (126,129)	27.875				
81	85 (166,178)	28.217	171	0.040	0.040	0.670849
82	87 (175,159)	28.508				
83	88 (182,187)	28.634	989	0.132	0.132	1.182546
84	89 (128,162)	28.763				
85	90 (183)	28.929	408	0.062	0.062	1.033866
86	91 (167)	29.194				
87	92 (185)	29.518	131	0.017	0.017	1.200077
88	93 (174,181)	29.884	852	0.117	0.117	1.146693
89	94 (177)	30.137	342	0.062	0.062	0.866524
90	95 (156,171)	30.446	199	0.029	0.029	1.083934
91	96 (157,202)	30.700	97	0.002	0.002	6.322028
92	98 (173)	30.848				
93	99 (201)	31.189	80	0.014	0.014	0.887410
94	100 (172,204)	31.429	142	0.020	0.020	1.089679
95	101 (192,197)	31.713				
96	102 (180)	31.903	1914	0.223	0.223	1.351556
97	103 (193)	32.144	74	0.015	0.015	0.754223
98	104 (191)	32.452				
99	105 (200,169)	32.777	105	0.016	0.016	1.051451
100	106 (170)	33.880	645	0.047	0.047	2.171353
101	107 (190)	34.140	114	0.015	0.015	1.166873
102	108 (198)	34.980				
103	109 (199)	35.220	735	0.154	0.154	0.753773
104	110 (196,203)	35.733	850	0.157	0.157	0.850938
105	111 (189)	36.858				
106	112 (195)	38.302	255	0.020	0.020	1.984911
107	113 (208)	38.853				
108	114 (207)	39.764				
109	115 (194)	41.105	748	0.066	0.066	1.788471
110	116 (205)	41.995	31	0.004	0.004	1.220529
111	I.S. (OCN)	45.408	115508	18.180	18.180	6353.581306
112	117 (206)	46.902	229	0.025	0.025	1.453446

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.762				



Sample Name: ICAL0519B  
Sample ID: ICAL 12.5 ng/mL  
Date Acquired: 5/20/2009 4:07:16 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID:

Sample Name: ICAL0519B

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name:	ICAL0519B	Sample Amount:	1
Sample ID:	ICAL 12.5 ng/mL	Dilution:	1
Date Acquired:	5/20/2009 4:07:16 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	5/20/2009 11:56:23 PM EDT
Sample Set Name:	GC24_CC_051909	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_051909	Current Date:	5/21/2009
Run Time:	60.0 Minutes	Current Time:	6:59:44 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.566	195	0.877	0.877	0.035623
2	3 (2)	12.578				
3	4 (3)	12.676	48	0.512	0.512	0.014948
4	5 (4,10)	13.278	123	0.249	0.249	0.079209
5	6 (7,9)	14.124	307	0.088	0.088	0.562511
6	7 (6)	14.437	259	0.139	0.139	0.299401
7	8 (5,8)	14.622	1001	1.023	1.023	0.157068
8	9 (14)	15.175				
9	10 (19)	15.249	41	0.020	0.020	0.323895
10	11 (30)	15.717				
11	12 (11)	15.777				
12	13 (12,13)	15.970	38	0.020	0.020	0.311469
13	14 (15,18)	16.105	811	0.270	0.270	0.481604
14	15 (17)	16.192	390	0.270	0.270	0.231583
15	16 (24,27)	16.489	85	0.019	0.019	0.720465
16	17 (16,32)	16.746	686	0.285	0.285	0.386268
17	19 (23,34,54)	17.196				
18	20 (29)	17.376	17	0.004	0.004	0.689968
19	21 (26)	17.496	144	0.053	0.053	0.438938
20	22 (25)	17.565	78	0.023	0.023	0.535220
21	23 (31)	17.773	1281	0.301	0.301	0.682429
22	24 (28,50)	17.822	1721	0.386	0.386	0.716202
23	25 (20,21,33,53)	18.174	1008	0.290	0.290	0.557426
24	26 (22,51)	18.401	698	0.212	0.212	0.528497
25	27 (45)	18.633	218	0.065	0.065	0.537424
26	28 (36)	18.768				
27	29 (46)	18.904	72	0.029	0.029	0.395815
28	30 (39)	19.029				

**Peak Results**

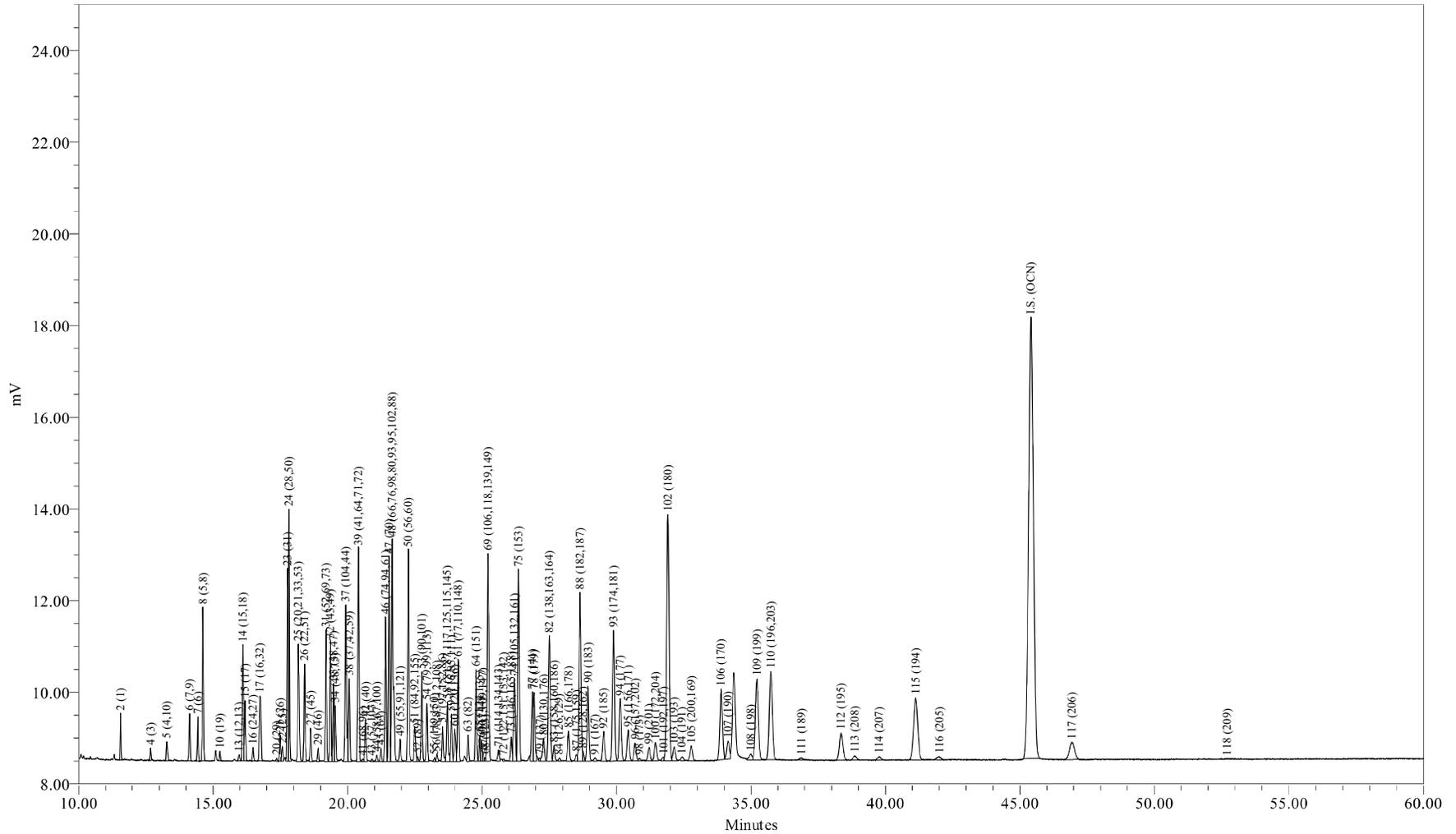
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.200	947	0.349	0.349	0.435869
30	32 (43,49)	19.366	886	0.168	0.168	0.845528
31	33 (38,47)	19.480				
32	34 (48,75)	19.534	400	0.073	0.073	0.877721
33	35 (62,65)	19.679				
34	36 (35)	19.759				
35	37 (104,44)	19.932	1415	0.314	0.314	0.722494
36	38 (37,42,59)	20.059	663	0.190	0.190	0.559923
37	39 (41,64,71,72)	20.403	1642	0.300	0.300	0.879519
38	41 (68,96)	20.572				
39	42 (40)	20.671	238	0.069	0.069	0.556951
40	43 (57,103)	20.925				
41	44 (58,67,100)	21.079	42	0.008	0.008	0.832497
42	45 (63)	21.231	74	0.015	0.015	0.776727
43	46 (74,94,61)	21.410	1120	0.139	0.139	1.294494
44	47 (70)	21.545	1594	0.249	0.249	1.029744
45	48 (66,76,98,80,93,95,102,88)	21.661	2243	0.526	0.526	0.684181
46	49 (55,91,121)	21.960	173	0.037	0.037	0.744363
47	50 (56,60)	22.261	1696	0.256	0.256	1.063910
48	51 (84,92,155)	22.493	264	0.132	0.132	0.322250
49	52 (89)	22.607	32	0.007	0.007	0.712683
50	53 (90,101)	22.759	686	0.132	0.132	0.836571
51	54 (79,99,113)	22.952	433	0.054	0.054	1.285500
52	55 (119,150)	23.218	22	0.002	0.002	1.750404
53	56 (78,83,112,108)	23.333	41	0.011	0.011	0.607228
54	57 (97,152,86)	23.533	252	0.041	0.041	0.988532
55	58 (81,87,117,125,115,145)	23.713	460	0.085	0.085	0.870128
56	59 (116,85,111)	23.863	348	0.051	0.051	1.090907
57	60 (120,136)	23.992	327	0.055	0.055	0.956474
58	61 (77,110,148)	24.115	824	0.156	0.156	0.849647
59	62 (154)	24.394				
60	63 (82)	24.477	181	0.032	0.032	0.905310
61	64 (151)	24.782	714	0.124	0.124	0.922601
62	65 (124,135)	24.907	210	0.021	0.021	1.587430
63	66 (144)	24.978	150	0.044	0.044	0.547757
64	67 (107,109,147)	25.018	44	0.009	0.009	0.746864
65	68 (123)	25.129				
66	69 (106,118,139,149)	25.223	1939	0.292	0.292	1.064306
67	70 (140)	25.334				
68	71 (114,134,143)	25.622	87	0.015	0.015	0.940886
69	72 (122,131,133,142)	25.825	20	0.002	0.002	1.505490
70	73 (146,165,188)	26.081	188	0.029	0.029	1.056948

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.212	809	0.099	0.099	1.310901
72	75 (153)	26.358	1758	0.215	0.215	1.310995
73	76 (127,168,184)	26.465				
74	77 (141)	26.869	604	0.124	0.124	0.780203
75	78 (179)	26.942	639	0.107	0.107	0.960735
76	79 (137)	27.113	19	0.005	0.005	0.552376
77	80 (130,176)	27.289	252	0.019	0.019	2.128086
78	82 (138,163,164)	27.504	1571	0.197	0.197	1.277972
79	83 (158,160,186)	27.664	138	0.018	0.018	1.211091
80	84 (126,129)	27.879	30	0.001	0.001	5.011101
81	85 (166,178)	28.220	281	0.080	0.080	0.560877
82	87 (175,159)	28.556	48	0.015	0.015	0.530807
83	88 (182,187)	28.647	1965	0.263	0.263	1.198884
84	89 (128,162)	28.745	57	0.007	0.007	1.251130
85	90 (183)	28.939	790	0.124	0.124	1.020188
86	91 (167)	29.220	34	0.004	0.004	1.532273
87	92 (185)	29.518	290	0.034	0.034	1.356916
88	93 (174,181)	29.884	1587	0.234	0.234	1.089429
89	94 (177)	30.133	697	0.124	0.124	0.900809
90	95 (156,171)	30.420	340	0.058	0.058	0.944231
91	96 (157,202)	30.704	183	0.005	0.005	6.086169
92	98 (173)	30.831	24	0.003	0.003	1.402184
93	99 (201)	31.210	151	0.029	0.029	0.851869
94	100 (172,204)	31.447	222	0.041	0.041	0.870650
95	101 (192,197)	31.769	42	0.008	0.008	0.839692
96	102 (180)	31.911	3776	0.446	0.446	1.359305
97	103 (193)	32.136	155	0.031	0.031	0.810471
98	104 (191)	32.475	51	0.009	0.009	0.931893
99	105 (200,169)	32.793	185	0.031	0.031	0.946117
100	106 (170)	33.900	1097	0.094	0.094	1.881771
101	107 (190)	34.142	227	0.031	0.031	1.186928
102	108 (198)	34.943	91	0.009	0.009	1.662372
103	109 (199)	35.216	1467	0.307	0.307	0.767017
104	110 (196,203)	35.744	1693	0.314	0.314	0.864528
105	111 (189)	36.822	34	0.003	0.003	1.875780
106	112 (195)	38.351	521	0.040	0.040	2.067736
107	113 (208)	38.898	67	0.018	0.018	0.595678
108	114 (207)	39.758	65	0.007	0.007	1.523566
109	115 (194)	41.124	1516	0.132	0.132	1.850039
110	116 (205)	42.040	69	0.008	0.008	1.379985
111	I.S. (OCN)	45.412	113259	18.180	18.180	6229.871832
112	117 (206)	46.916	481	0.050	0.050	1.552965

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.774	12	0.001	0.001	2.073059



Sample Name: ICAL0519C  
Sample ID: ICAL 125 ng/mL  
Date Acquired: 5/20/2009 5:12:42 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID:

Sample Name: ICAL0519C

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0519C Sample Amount: 1  
 Sample ID: ICAL 125 ng/mL Dilution: 1  
 Date Acquired: 5/20/2009 5:12:42 AM EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 5/20/2009 11:49:30 PM EDT  
 Sample Set Name: GC24\_CC\_051909 User Name: Amy Jo Arndt (AmyJoA)  
 Processing Method: CSGB\_LL1X\_051909 Current Date: 5/21/2009  
 Run Time: 60.0 Minutes Current Time: 6:59:50 AM US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID:

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.567	1868	8.771	8.771	0.032189
2	3 (2)	12.578				
3	4 (3)	12.678	551	5.117	5.117	0.016288
4	5 (4,10)	13.280	1230	2.485	2.485	0.074828
5	6 (7,9)	14.126	2885	0.877	0.877	0.497221
6	7 (6)	14.434	2293	1.389	1.389	0.249550
7	8 (5,8)	14.621	8719	10.233	10.233	0.128791
8	9 (14)	15.175				
9	10 (19)	15.256	518	0.205	0.205	0.382629
10	11 (30)	15.717				
11	12 (11)	15.777				
12	13 (12,13)	15.975	452	0.195	0.195	0.350407
13	14 (15,18)	16.106	7268	2.704	2.704	0.406244
14	15 (17)	16.192	3475	2.704	2.704	0.194232
15	16 (24,27)	16.486	761	0.190	0.190	0.605589
16	17 (16,32)	16.745	6494	2.851	2.851	0.344358
17	19 (23,34,54)	17.196				
18	20 (29)	17.370	168	0.039	0.039	0.654986
19	21 (26)	17.498	1594	0.526	0.526	0.457836
20	22 (25)	17.579	918	0.234	0.234	0.593239
21	23 (31)	17.774	11188	3.014	3.014	0.561191
22	24 (28,50)	17.822	15737	3.857	3.857	0.616725
23	25 (20,21,33,53)	18.175	9197	2.903	2.903	0.478875
24	26 (22,51)	18.403	6396	2.120	2.120	0.456102
25	27 (45)	18.629	2207	0.650	0.650	0.512914
26	28 (36)	18.768				
27	29 (46)	18.908	892	0.292	0.292	0.460900
28	30 (39)	19.029				

**Peak Results**

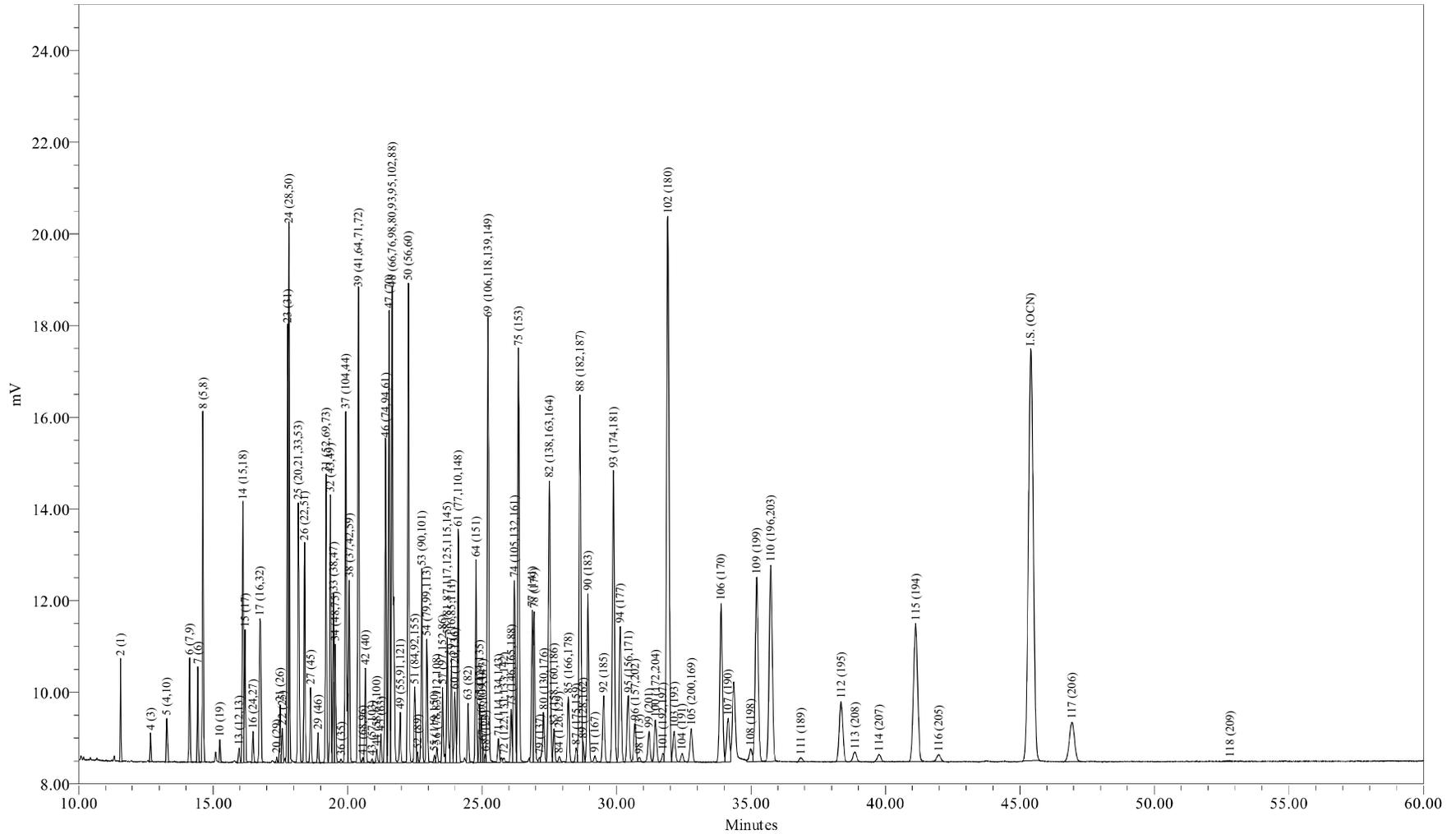
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.199	8679	3.487	3.487	0.376288
30	32 (43,49)	19.366	8292	1.681	1.681	0.745600
31	33 (38,47)	19.478	5282	0.731	0.731	1.092150
32	34 (48,75)	19.542	3771	0.731	0.731	0.779695
33	35 (62,65)	19.679				
34	36 (35)	19.759				
35	37 (104,44)	19.932	12179	3.143	3.143	0.585726
36	38 (37,42,59)	20.061	5923	1.901	1.901	0.471125
37	39 (41,64,71,72)	20.404	14975	2.997	2.997	0.755367
38	41 (68,96)	20.576	169			
39	42 (40)	20.668	2887	0.687	0.687	0.635094
40	43 (57,103)	20.906	216			
41	44 (58,67,100)	21.092	493	0.080	0.080	0.926655
42	45 (63)	21.245	918	0.154	0.154	0.904329
43	46 (74,94,61)	21.412	10165	1.389	1.389	1.106475
44	47 (70)	21.547	14621	2.485	2.485	0.889367
45	48 (66,76,98,80,93,95,102,88)	21.660	20673	5.263	5.263	0.593796
46	49 (55,91,121)	21.957	1743	0.373	0.373	0.706887
47	50 (56,60)	22.261	15150	2.558	2.558	0.895220
48	51 (84,92,155)	22.503	3052	1.316	1.316	0.350620
49	52 (89)	22.615	350	0.073	0.073	0.723003
50	53 (90,101)	22.761	6557	1.316	1.316	0.753347
51	54 (79,99,113)	22.953	4208	0.541	0.541	1.176137
52	55 (119,150)	23.235	258	0.020	0.020	1.899943
53	56 (78,83,112,108)	23.323	509	0.110	0.110	0.702747
54	57 (97,152,86)	23.537	2731	0.409	0.409	1.008825
55	58 (81,87,117,125,115,145)	23.710	4787	0.848	0.848	0.853374
56	59 (116,85,111)	23.862	3472	0.512	0.512	1.025562
57	60 (120,136)	23.990	3072	0.548	0.548	0.847203
58	61 (77,110,148)	24.114	7674	1.557	1.557	0.745139
59	62 (154)	24.394				
60	63 (82)	24.482	1965	0.322	0.322	0.923689
61	64 (151)	24.777	6701	1.243	1.243	0.815272
62	65 (124,135)	24.914	1952	0.212	0.212	1.391560
63	66 (144)	24.974	1555	0.439	0.439	0.536020
64	67 (107,109,147)	25.028	482	0.095	0.095	0.766414
65	68 (123)	25.120	213			
66	69 (106,118,139,149)	25.223	17559	2.924	2.924	0.907822
67	70 (140)	25.334				
68	71 (114,134,143)	25.617	991	0.148	0.148	1.014576
69	72 (122,131,133,142)	25.804	199	0.021	0.021	1.412708
70	73 (146,165,188)	26.088	1858	0.285	0.285	0.985080

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.201	8154	0.990	0.990	1.244623
72	75 (153)	26.358	15871	2.153	2.153	1.114454
73	76 (127,168,184)	26.465				
74	77 (141)	26.874	5863	1.243	1.243	0.713308
75	78 (179)	26.939	5972	1.067	1.067	0.845949
76	79 (137)	27.152	201	0.055	0.055	0.555094
77	80 (130,176)	27.290	2523	0.190	0.190	2.007793
78	82 (138,163,164)	27.506	13803	1.974	1.974	1.057194
79	83 (158,160,186)	27.679	1513	0.183	0.183	1.251996
80	84 (126,129)	27.872	327	0.009	0.009	5.228137
81	85 (166,178)	28.214	3004	0.804	0.804	0.564860
82	87 (175,159)	28.506	605	0.146	0.146	0.625183
83	88 (182,187)	28.647	17699	2.631	2.631	1.016742
84	89 (128,162)	28.753	680	0.073	0.073	1.405506
85	90 (183)	28.941	8127	1.243	1.243	0.988686
86	91 (167)	29.199	378	0.036	0.036	1.595375
87	92 (185)	29.524	3281	0.343	0.343	1.444156
88	93 (174,181)	29.889	15201	2.339	2.339	0.982434
89	94 (177)	30.141	7343	1.243	1.243	0.893274
90	95 (156,171)	30.436	3762	0.578	0.578	0.984763
91	96 (157,202)	30.689	2151	0.048	0.048	6.735016
92	98 (173)	30.850	240	0.028	0.028	1.308403
93	99 (201)	31.215	1675	0.285	0.285	0.887960
94	100 (172,204)	31.449	2382	0.409	0.409	0.879738
95	101 (192,197)	31.752	376	0.080	0.080	0.706563
96	102 (180)	31.909	34247	4.459	4.459	1.161064
97	103 (193)	32.145	1893	0.307	0.307	0.932155
98	104 (191)	32.443	506	0.088	0.088	0.871880
99	105 (200,169)	32.784	2098	0.314	0.314	1.008903
100	106 (170)	33.889	10757	0.936	0.936	1.738049
101	107 (190)	34.148	2674	0.307	0.307	1.316736
102	108 (198)	34.991	1040	0.088	0.088	1.793480
103	109 (199)	35.224	13935	3.070	3.070	0.686178
104	110 (196,203)	35.738	15382	3.143	3.143	0.739808
105	111 (189)	36.875	359	0.029	0.029	1.862511
106	112 (195)	38.348	5395	0.404	0.404	2.017876
107	113 (208)	38.855	790	0.180	0.180	0.661639
108	114 (207)	39.761	640	0.068	0.068	1.423679
109	115 (194)	41.130	14576	1.316	1.316	1.674666
110	116 (205)	42.009	724	0.080	0.080	1.362208
111	I.S. (OCN)	45.407	120264	18.180	18.180	6615.206440
112	117 (206)	46.936	4996	0.497	0.497	1.519662

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.700	124	0.009	0.009	2.108532



Sample Name: ICAL0519D  
Sample ID: ICAL 314 ng/mL  
Date Acquired: 5/20/2009 6:18:07 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID:

Sample Name: ICAL0519D

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
Phone: (518) 346-4592 Fax: (518) 381-6055  
www.nealab.com

Sample Name: ICAL0519D Sample Amount: 1  
Sample ID: ICAL 314 ng/mL Dilution: 1  
Date Acquired: 5/20/2009 6:18:07 AM EDT Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 5/20/2009 11:50:20 PM EDT  
Sample Set Name: GC24\_CC\_051909 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: CSGB\_LL1X\_051909 Current Date: 5/21/2009  
Run Time: 60.0 Minutes Current Time: 6:59:52 AM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID:

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.567	4191	21.928	21.928	0.030565
2	3 (2)	12.578				
3	4 (3)	12.678	1296	12.792	12.792	0.016197
4	5 (4,10)	13.280	2857	6.213	6.213	0.073546
5	6 (7,9)	14.126	6585	2.193	2.193	0.480311
6	7 (6)	14.434	5086	3.472	3.472	0.234250
7	8 (5,8)	14.621	19708	25.583	25.583	0.123200
8	9 (14)	15.175				
9	10 (19)	15.255	1221	0.512	0.512	0.381492
10	11 (30)	15.717				
11	12 (11)	15.777				
12	13 (12,13)	15.973	1178	0.488	0.488	0.386280
13	14 (15,18)	16.105	16497	6.761	6.761	0.390223
14	15 (17)	16.192	7834	6.761	6.761	0.185310
15	16 (24,27)	16.488	1893	0.475	0.475	0.637637
16	17 (16,32)	16.742	14567	7.127	7.127	0.326894
17	19 (23,34,54)	17.196				
18	20 (29)	17.370	413	0.097	0.097	0.680215
19	21 (26)	17.495	3602	1.316	1.316	0.437865
20	22 (25)	17.577	2105	0.585	0.585	0.575715
21	23 (31)	17.774	24553	7.534	7.534	0.521189
22	24 (28,50)	17.822	35478	9.643	9.643	0.588396
23	25 (20,21,33,53)	18.173	20589	7.258	7.258	0.453664
24	26 (22,51)	18.403	14360	5.300	5.300	0.433349
25	27 (45)	18.630	4933	1.626	1.626	0.485167
26	28 (36)	18.768				
27	29 (46)	18.904	1980	0.731	0.731	0.433191
28	30 (39)	19.029				

**Peak Results**

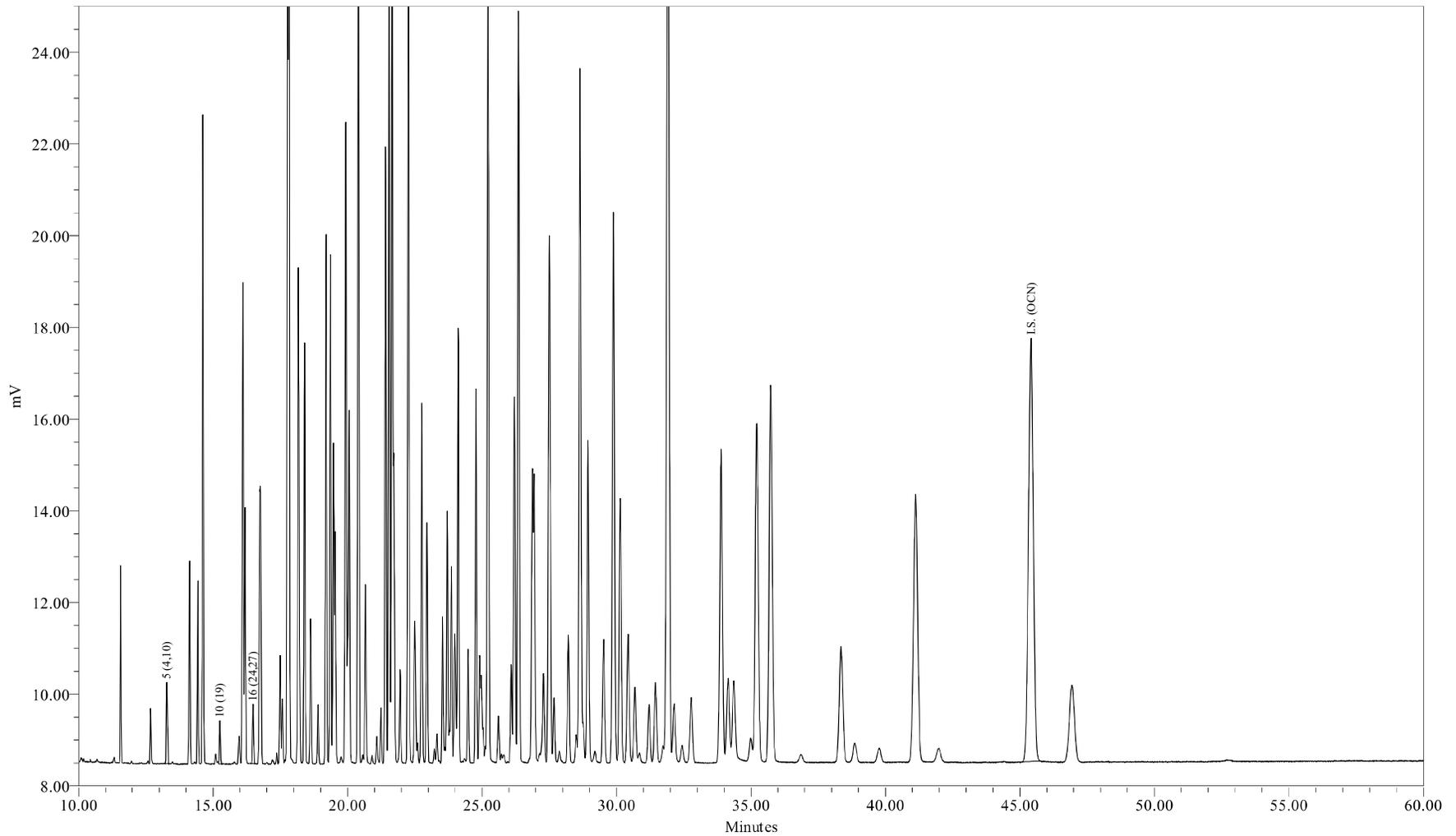
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.200	19162	8.716	8.716	0.351580
30	32 (43,49)	19.364	18492	4.203	4.203	0.703633
31	33 (38,47)	19.478	11282	1.828	1.828	0.987210
32	34 (48,75)	19.541	8157	1.828	1.828	0.713773
33	35 (62,65)	19.679				
34	36 (35)	19.756	294			
35	37 (104,44)	19.932	26925	7.858	7.858	0.547992
36	38 (37,42,59)	20.060	13187	4.751	4.751	0.443883
37	39 (41,64,71,72)	20.404	33232	7.492	7.492	0.709365
38	41 (68,96)	20.570	349			
39	42 (40)	20.667	6360	1.718	1.718	0.592131
40	43 (57,103)	20.913	313			
41	44 (58,67,100)	21.084	1085	0.201	0.201	0.863402
42	45 (63)	21.242	2018	0.384	0.384	0.841010
43	46 (74,94,61)	21.413	22868	3.472	3.472	1.053355
44	47 (70)	21.544	32423	6.213	6.213	0.834610
45	48 (66,76,98,80,93,95,102,88)	21.659	45649	13.157	13.157	0.554887
46	49 (55,91,121)	21.960	3832	0.932	0.932	0.657445
47	50 (56,60)	22.262	34081	6.396	6.396	0.852205
48	51 (84,92,155)	22.502	6648	3.289	3.289	0.323222
49	52 (89)	22.606	740	0.183	0.183	0.647455
50	53 (90,101)	22.760	14214	3.289	3.289	0.691109
51	54 (79,99,113)	22.950	9079	1.352	1.352	1.073776
52	55 (119,150)	23.230	524	0.051	0.051	1.637212
53	56 (78,83,112,108)	23.324	1133	0.274	0.274	0.661522
54	57 (97,152,86)	23.536	6012	1.023	1.023	0.939696
55	58 (81,87,117,125,115,145)	23.707	10446	2.120	2.120	0.788100
56	59 (116,85,111)	23.860	7834	1.279	1.279	0.979317
57	60 (120,136)	23.988	6816	1.370	1.370	0.795367
58	61 (77,110,148)	24.114	16912	3.892	3.892	0.694890
59	62 (154)	24.394				
60	63 (82)	24.479	4397	0.804	0.804	0.874673
61	64 (151)	24.777	14847	3.106	3.106	0.764332
62	65 (124,135)	24.912	4577	0.530	0.530	1.380972
63	66 (144)	24.973	3331	1.097	1.097	0.485862
64	67 (107,109,147)	25.023	955	0.237	0.237	0.643012
65	68 (123)	25.123	503			
66	69 (106,118,139,149)	25.222	38511	7.309	7.309	0.842589
67	70 (140)	25.334				
68	71 (114,134,143)	25.613	2234	0.369	0.369	0.968429
69	72 (122,131,133,142)	25.814	533	0.053	0.053	1.601538
70	73 (146,165,188)	26.084	4217	0.713	0.713	0.946114

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.204	17927	2.476	2.476	1.157982
72	75 (153)	26.357	34927	5.382	5.382	1.037880
73	76 (127,168,184)	26.465				
74	77 (141)	26.870	12659	3.106	3.106	0.651692
75	78 (179)	26.940	13007	2.668	2.668	0.779644
76	79 (137)	27.145	408	0.137	0.137	0.476035
77	80 (130,176)	27.287	5251	0.475	0.475	1.768430
78	82 (138,163,164)	27.507	30605	4.964	4.964	0.986010
79	83 (158,160,186)	27.678	3262	0.457	0.457	1.142354
80	84 (126,129)	27.872	685	0.024	0.024	4.630207
81	85 (166,178)	28.208	6682	2.010	2.010	0.531663
82	87 (175,159)	28.500	1359	0.366	0.366	0.594554
83	88 (182,187)	28.644	39148	6.578	6.578	0.951718
84	89 (128,162)	28.756	1524	0.183	0.183	1.333478
85	90 (183)	28.938	17937	3.106	3.106	0.923452
86	91 (167)	29.194	751	0.090	0.090	1.338721
87	92 (185)	29.524	7370	0.859	0.859	1.372793
88	93 (174,181)	29.886	34042	5.847	5.847	0.931059
89	94 (177)	30.140	16098	3.106	3.106	0.828783
90	95 (156,171)	30.438	8308	1.444	1.444	0.920213
91	96 (157,202)	30.685	4845	0.121	0.121	6.419408
92	98 (173)	30.840	515	0.069	0.069	1.185049
93	99 (201)	31.215	4038	0.713	0.713	0.905992
94	100 (172,204)	31.447	5476	1.023	1.023	0.855942
95	101 (192,197)	31.725	932	0.201	0.201	0.741878
96	102 (180)	31.907	75930	11.147	11.147	1.089379
97	103 (193)	32.145	4266	0.768	0.768	0.888938
98	104 (191)	32.444	1173	0.219	0.219	0.855658
99	105 (200,169)	32.783	4774	0.786	0.786	0.971757
100	106 (170)	33.886	24737	2.339	2.339	1.691392
101	107 (190)	34.148	7014	0.768	0.768	1.461534
102	108 (198)	34.983	2190	0.219	0.219	1.597722
103	109 (199)	35.217	30821	7.675	7.675	0.642230
104	110 (196,203)	35.734	34463	7.858	7.858	0.701422
105	111 (189)	36.857	777	0.073	0.073	1.705027
106	112 (195)	38.356	12195	1.010	1.010	1.930349
107	113 (208)	38.874	1956	0.451	0.451	0.693306
108	114 (207)	39.756	1452	0.170	0.170	1.366176
109	115 (194)	41.125	32053	3.289	3.289	1.558477
110	116 (205)	41.989	1653	0.201	0.201	1.314935
111	I.S. (OCN)	45.397	113677	18.180	18.180	6252.849632
112	117 (206)	46.934	11633	1.242	1.242	1.497507

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.810	252	0.022	0.022	1.814449



Sample Name: ICAL0519E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 5/20/2009 7:23:30 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID:

Sample Name: ICAL0519E

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0519E Sample Amount: 1  
 Sample ID: ICAL 627 ng/mL Dilution: 1  
 Date Acquired: 5/20/2009 7:23:30 AM EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 5/20/2009 11:50:16 PM EDT  
 Sample Set Name: GC24\_CC\_051909 User Name: Amy Jo Arndt (AmyJoA)  
 Processing Method: CSGB\_LL1X\_051909 Current Date: 5/21/2009  
 Run Time: 60.0 Minutes Current Time: 6:59:57 AM US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID:

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.568				
2	3 (2)	12.578				
3	4 (3)	12.679				
4	5 (4,10)	13.280	5447	12.426	12.426	0.068985
5	6 (7,9)	14.129				
6	7 (6)	14.436				
7	8 (5,8)	14.623				
8	9 (14)	15.175				
9	10 (19)	15.255	2431	1.024	1.024	0.373668
10	11 (30)	15.717				
11	12 (11)	15.777				
12	13 (12,13)	15.977				
13	14 (15,18)	16.108				
14	15 (17)	16.194				
15	16 (24,27)	16.487	3616	0.950	0.950	0.599053
16	17 (16,32)	16.754				
17	19 (23,34,54)	17.196				
18	20 (29)	17.373				
19	21 (26)	17.496				
20	22 (25)	17.579				
21	23 (31)	17.778				
22	24 (28,50)	17.823				
23	25 (20,21,33,53)	18.175				
24	26 (22,51)	18.406				
25	27 (45)	18.632				
26	28 (36)	18.768				
27	29 (46)	18.906				
28	30 (39)	19.029				

**Peak Results**

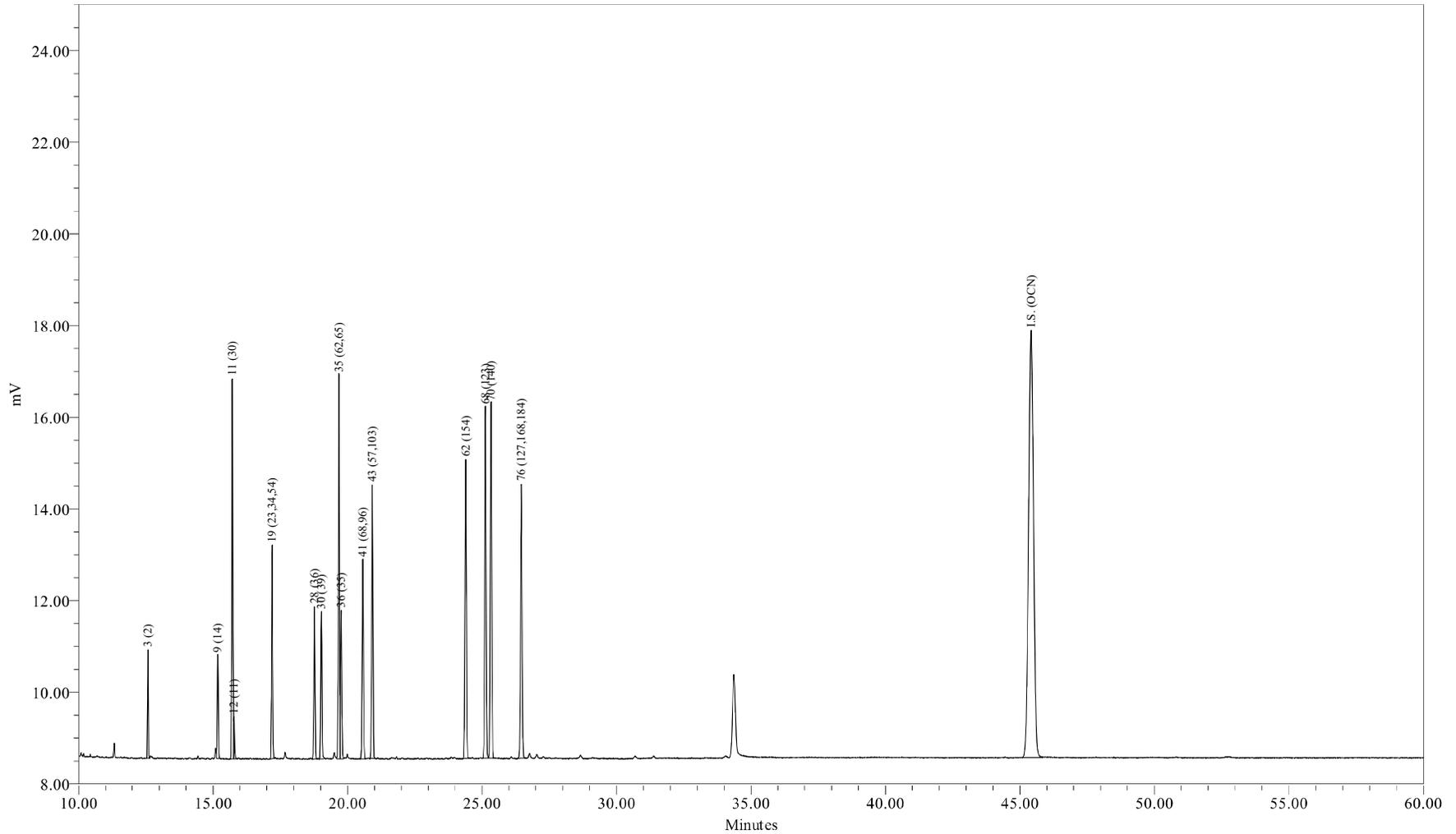
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.201				
30	32 (43,49)	19.368				
31	33 (38,47)	19.480				
32	34 (48,75)	19.543				
33	35 (62,65)	19.679				
34	36 (35)	19.759				
35	37 (104,44)	19.932				
36	38 (37,42,59)	20.061				
37	39 (41,64,71,72)	20.407				
38	41 (68,96)	20.572				
39	42 (40)	20.667				
40	43 (57,103)	20.925				
41	44 (58,67,100)	21.089				
42	45 (63)	21.245				
43	46 (74,94,61)	21.414				
44	47 (70)	21.549				
45	48 (66,76,98,80,93,95,102,88)	21.662				
46	49 (55,91,121)	21.962				
47	50 (56,60)	22.264				
48	51 (84,92,155)	22.507				
49	52 (89)	22.615				
50	53 (90,101)	22.763				
51	54 (79,99,113)	22.955				
52	55 (119,150)	23.234				
53	56 (78,83,112,108)	23.327				
54	57 (97,152,86)	23.539				
55	58 (81,87,117,125,115,145)	23.710				
56	59 (116,85,111)	23.862				
57	60 (120,136)	23.992				
58	61 (77,110,148)	24.116				
59	62 (154)	24.394				
60	63 (82)	24.484				
61	64 (151)	24.779				
62	65 (124,135)	24.915				
63	66 (144)	24.980				
64	67 (107,109,147)	25.041				
65	68 (123)	25.129				
66	69 (106,118,139,149)	25.223				
67	70 (140)	25.334				
68	71 (114,134,143)	25.616				
69	72 (122,131,133,142)	25.817				
70	73 (146,165,188)	26.085				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.201				
72	75 (153)	26.362				
73	76 (127,168,184)	26.465				
74	77 (141)	26.872				
75	78 (179)	26.942				
76	79 (137)	27.128				
77	80 (130,176)	27.291				
78	82 (138,163,164)	27.508				
79	83 (158,160,186)	27.680				
80	84 (126,129)	27.875				
81	85 (166,178)	28.213				
82	87 (175,159)	28.508				
83	88 (182,187)	28.651				
84	89 (128,162)	28.763				
85	90 (183)	28.945				
86	91 (167)	29.194				
87	92 (185)	29.528				
88	93 (174,181)	29.891				
89	94 (177)	30.147				
90	95 (156,171)	30.432				
91	96 (157,202)	30.692				
92	98 (173)	30.848				
93	99 (201)	31.208				
94	100 (172,204)	31.447				
95	101 (192,197)	31.713				
96	102 (180)	31.903				
97	103 (193)	32.145				
98	104 (191)	32.452				
99	105 (200,169)	32.780				
100	106 (170)	33.895				
101	107 (190)	34.151				
102	108 (198)	34.980				
103	109 (199)	35.220				
104	110 (196,203)	35.744				
105	111 (189)	36.858				
106	112 (195)	38.350				
107	113 (208)	38.853				
108	114 (207)	39.764				
109	115 (194)	41.123				
110	116 (205)	41.979				
111	I.S. (OCN)	45.417	115526	18.180	18.180	6354.547362
112	117 (206)	46.935				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.762				



Sample Name: SC0519A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 5/20/2009 9:34:29 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID:

Sample Name: SC0519A

1 of 1



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Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: SC0519A Sample Amount: 1  
Sample ID: SUP CONG STD 200/5 ng/mL Dilution: 1  
Date Acquired: 5/20/2009 9:34:29 AM EDT Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 5/20/2009 11:49:44 PM EDT  
Sample Set Name: GC24\_CC\_051909 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: CSGB\_LL1X\_051909 Current Date: 5/21/2009  
Run Time: 60.0 Minutes Current Time: 7:00:03 AM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID:

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.568				
2	3 (2)	12.578	4860	200.000	200.000	0.003728
3	4 (3)	12.679				
4	5 (4,10)	13.283				
5	6 (7,9)	14.129				
6	7 (6)	14.436				
7	8 (5,8)	14.623				
8	9 (14)	15.175	5893	5.000	5.000	0.180830
9	10 (19)	15.258				
10	11 (30)	15.716	21697	5.000	5.000	0.665724
11	12 (11)	15.777	2077	5.000	5.000	0.063731
12	13 (12,13)	15.977				
13	14 (15,18)	16.108				
14	15 (17)	16.194				
15	16 (24,27)	16.490				
16	17 (16,32)	16.754				
17	19 (23,34,54)	17.195	13043	5.000	5.000	0.400202
18	20 (29)	17.373				
19	21 (26)	17.496				
20	22 (25)	17.579				
21	23 (31)	17.778				
22	24 (28,50)	17.823				
23	25 (20,21,33,53)	18.175				
24	26 (22,51)	18.406				
25	27 (45)	18.632				
26	28 (36)	18.767	10120	5.000	5.000	0.310499
27	29 (46)	18.906				
28	30 (39)	19.027	9912	5.000	5.000	0.304119

**Peak Results**

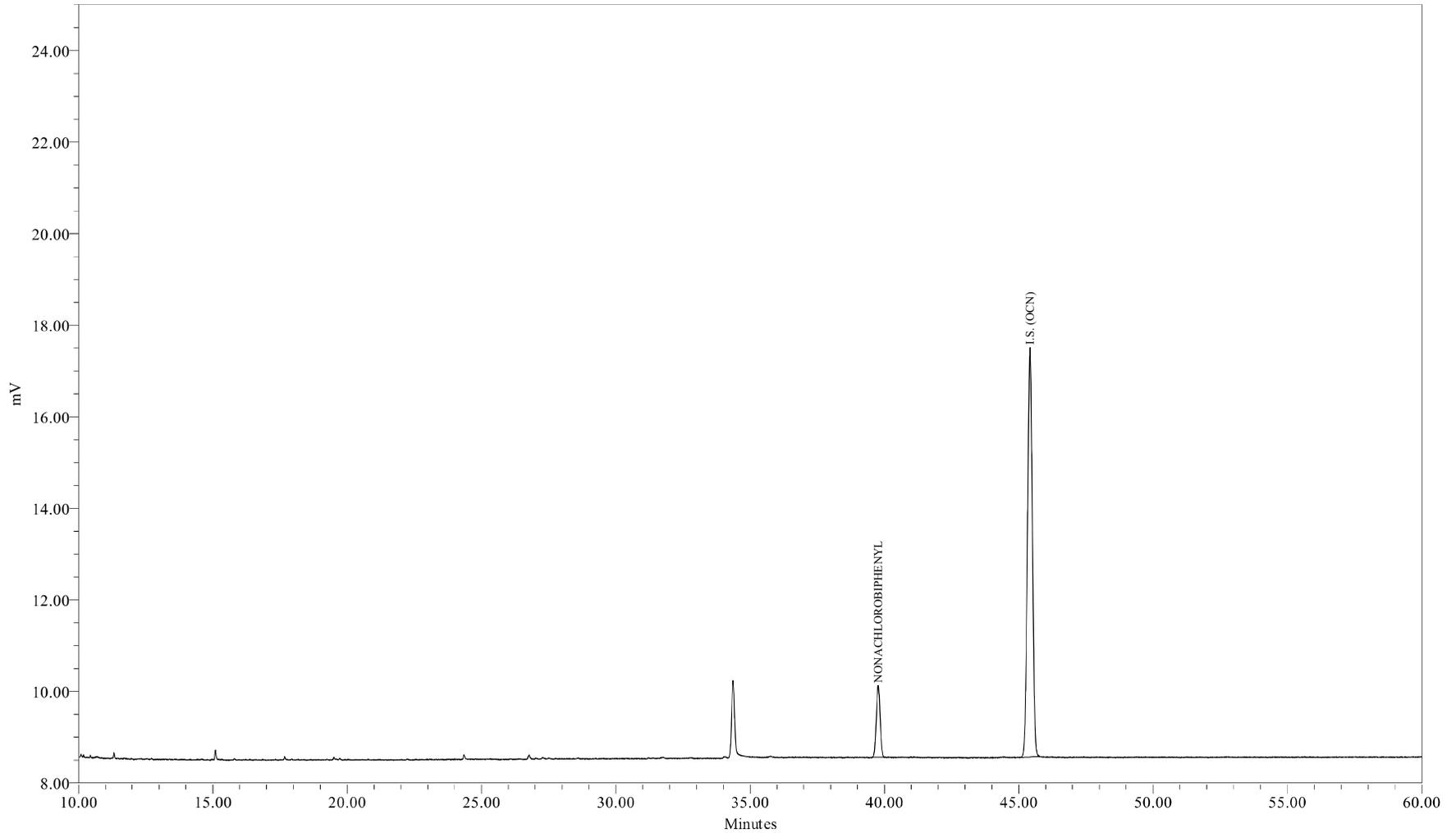
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.201				
30	32 (43,49)	19.368				
31	33 (38,47)	19.480				
32	34 (48,75)	19.543				
33	35 (62,65)	19.680	26011	5.000	5.000	0.798101
34	36 (35)	19.760	9693	5.000	5.000	0.297423
35	37 (104,44)	19.932				
36	38 (37,42,59)	20.061				
37	39 (41,64,71,72)	20.407				
38	41 (68,96)	20.570	13770	5.000	5.000	0.422509
39	42 (40)	20.667				
40	43 (57,103)	20.922	19131	5.000	5.000	0.586988
41	44 (58,67,100)	21.089				
42	45 (63)	21.245				
43	46 (74,94,61)	21.414				
44	47 (70)	21.549				
45	48 (66,76,98,80,93,95,102,88)	21.662				
46	49 (55,91,121)	21.962				
47	50 (56,60)	22.264				
48	51 (84,92,155)	22.507				
49	52 (89)	22.615				
50	53 (90,101)	22.763				
51	54 (79,99,113)	22.955				
52	55 (119,150)	23.234				
53	56 (78,83,112,108)	23.327				
54	57 (97,152,86)	23.539				
55	58 (81,87,117,125,115,145)	23.710				
56	59 (116,85,111)	23.862				
57	60 (120,136)	23.992				
58	61 (77,110,148)	24.116				
59	62 (154)	24.393	22602	5.000	5.000	0.693516
60	63 (82)	24.484				
61	64 (151)	24.779				
62	65 (124,135)	24.915				
63	66 (144)	24.980				
64	67 (107,109,147)	25.041				
65	68 (123)	25.126	26217	5.000	5.000	0.804415
66	69 (106,118,139,149)	25.223				
67	70 (140)	25.336	26620	5.000	5.000	0.816790
68	71 (114,134,143)	25.616				
69	72 (122,131,133,142)	25.817				
70	73 (146,165,188)	26.085				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.201				
72	75 (153)	26.362				
73	76 (127,168,184)	26.462	23190	5.000	5.000	0.711537
74	77 (141)	26.872				
75	78 (179)	26.942				
76	79 (137)	27.128				
77	80 (130,176)	27.291				
78	82 (138,163,164)	27.508				
79	83 (158,160,186)	27.680				
80	84 (126,129)	27.875				
81	85 (166,178)	28.213				
82	87 (175,159)	28.508				
83	88 (182,187)	28.651				
84	89 (128,162)	28.763				
85	90 (183)	28.945				
86	91 (167)	29.194				
87	92 (185)	29.528				
88	93 (174,181)	29.891				
89	94 (177)	30.147				
90	95 (156,171)	30.432				
91	96 (157,202)	30.692				
92	98 (173)	30.848				
93	99 (201)	31.208				
94	100 (172,204)	31.447				
95	101 (192,197)	31.713				
96	102 (180)	31.903				
97	103 (193)	32.145				
98	104 (191)	32.452				
99	105 (200,169)	32.780				
100	106 (170)	33.895				
101	107 (190)	34.151				
102	108 (198)	34.980				
103	109 (199)	35.220				
104	110 (196,203)	35.744				
105	111 (189)	36.858				
106	112 (195)	38.350				
107	113 (208)	38.853				
108	114 (207)	39.764				
109	115 (194)	41.123				
110	116 (205)	41.979				
111	I.S. (OCN)	45.416	118501	18.180	18.180	6518.215015
112	117 (206)	46.935				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.762				



Sample Name: SS0519A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 5/20/2009 10:39:55 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_2\_051909  
LIMS File ID:

Sample Name: SS0519A

1 of 1



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Sample Name:	SS0519A	Sample Amount:	1
Sample ID:	Surr Std (207) 2.0 ng/mL	Dilution:	1
Date Acquired:	5/20/2009 10:39:55 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	5/21/2009 6:50:14 AM EDT
Sample Set Name:	GC24_CC_051909	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_S_2_051909	Current Date:	5/21/2009
Run Time:	60.0 Minutes	Current Time:	7:11:50 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	

#### Peak Results

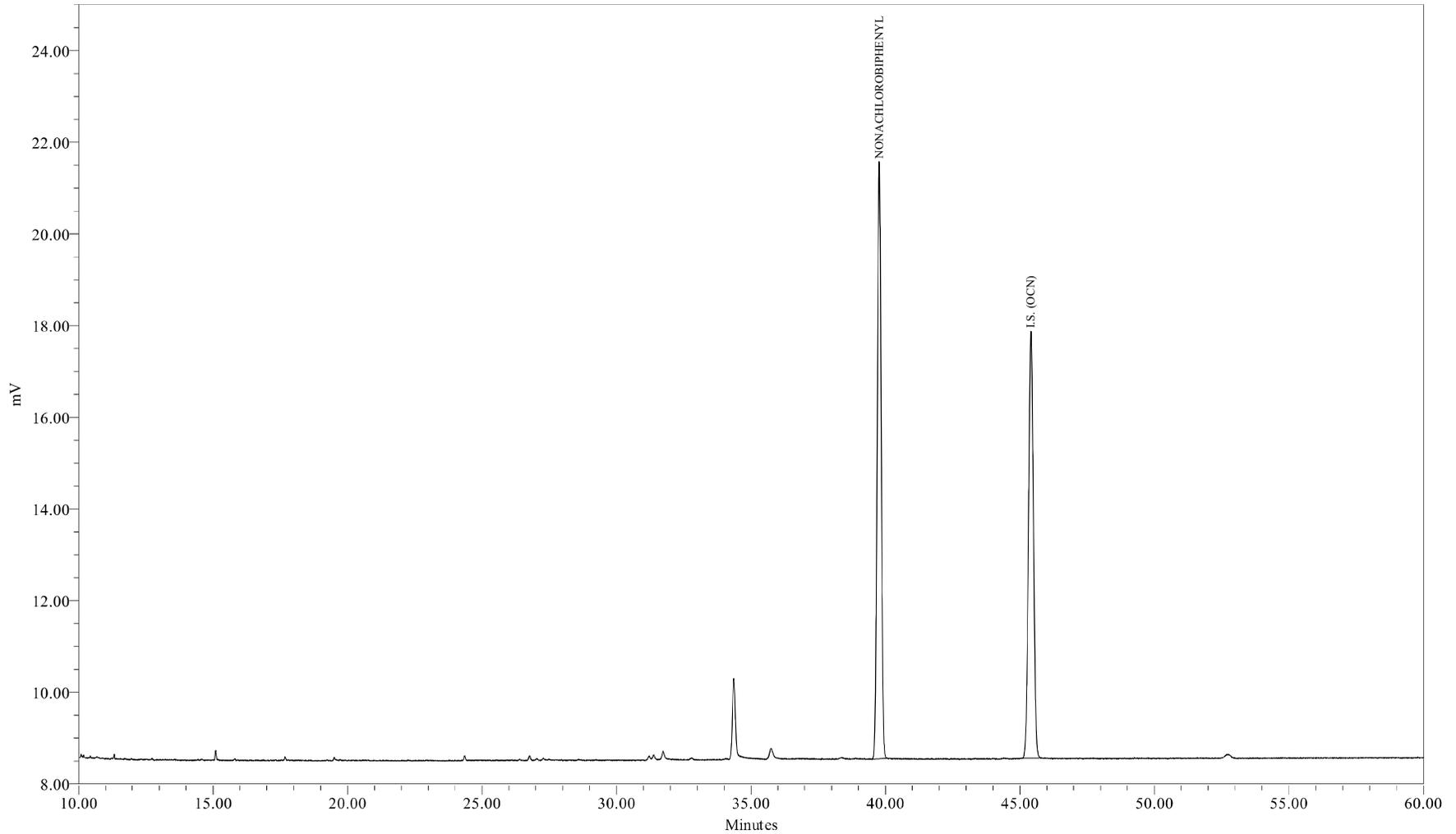
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	39.769	15501	2.000	2.000	1.248187
2	I.S. (OCN)	45.419	112884	18.180	18.180	6209.233752



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Sample Name: SS0519B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 5/20/2009 11:45:24 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_20\_051909  
LIMS File ID:

Sample Name: SS0519B

1 of 1



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Sample Name:	SS0519B	Sample Amount:	1
Sample ID:	Surr Std (207) 20.0 ng/mL	Dilution:	1
Date Acquired:	5/20/2009 11:45:24 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	5/21/2009 6:51:57 AM EDT
Sample Set Name:	GC24_CC_051909	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_S_20_051909	Current Date:	5/21/2009
Run Time:	60.0 Minutes	Current Time:	7:12:00 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	

#### Peak Results

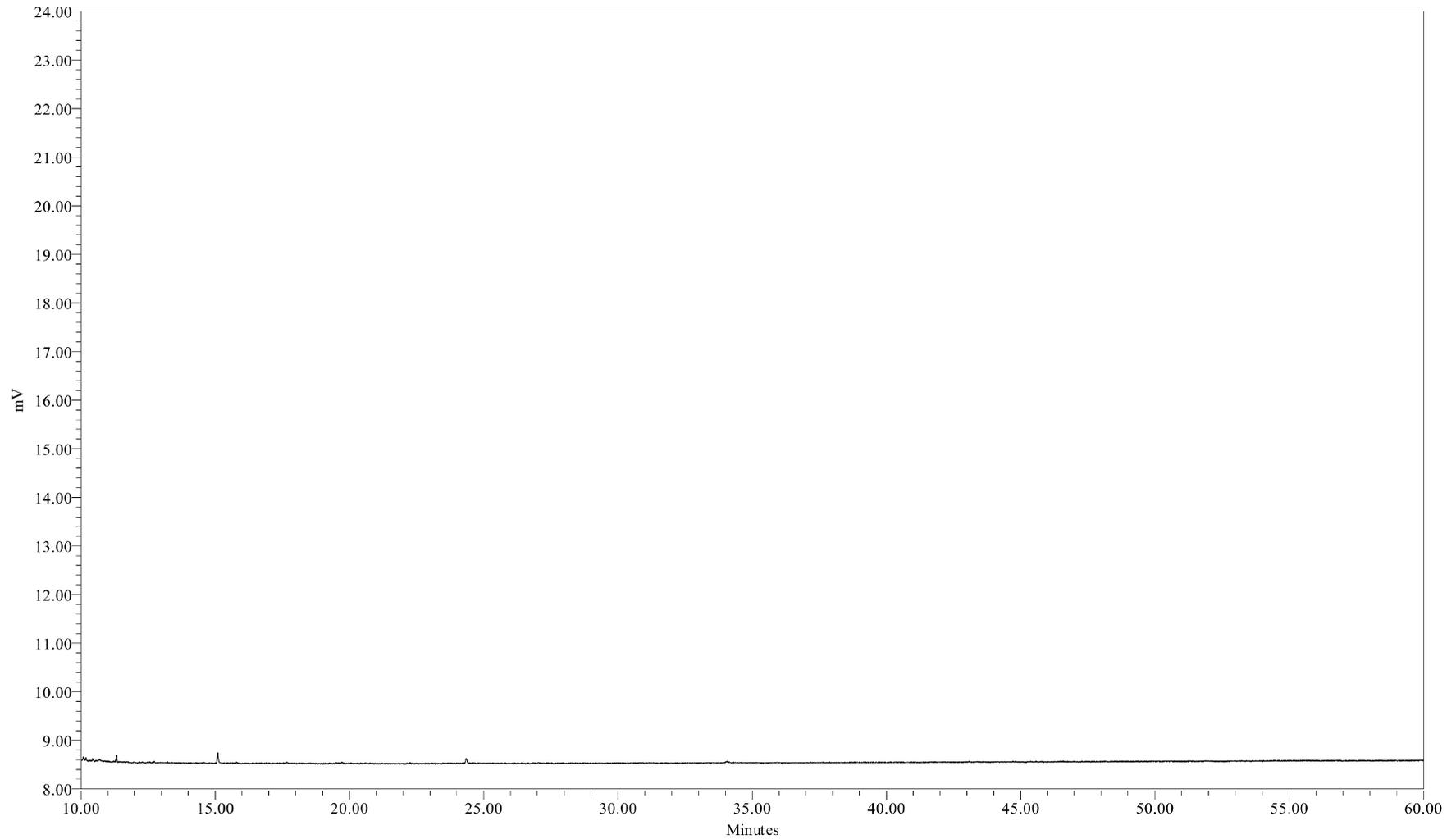
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	39.770	134078	20.000	20.000	1.033917
2	I.S. (OCN)	45.403	117879	18.180	18.180	6483.992463



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Sample Name: 090519B06  
Sample ID: HEXANE BLANK  
Date Acquired: 5/20/2009 12:51:06 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID:

Sample Name: 090519B06

1 of 1



**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**

LAB NAME: <u>Northeast Analytical, Inc.</u>	SGD NO: <u>09050311</u>
ELAP ID No: <u>11078</u>	
INSTRUMENT ID: <u>GC24</u>	
GC COLUMN: <u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm</u>	

**Continuing Calibration Standard CCCS0601C**

Lab File ID: <u>GC24-74-17</u>	Known Amount: <u>122 ng/ml</u>
Date: <u>06/02/2009</u>	Calculated Amount: <u>113 ng/ml</u>
Time: <u>10:18:21</u>	OCN (I.S.) Peak Area: <u>138779</u>
	% Recovery of I.S. ( 50 - 150 %): <u>120</u>

Lab File ID: _____	Known Amount: _____
Date: _____	Calculated Amount: _____
Time: _____	OCN (I.S.) Peak Area: _____
	% Recovery of I.S. ( 50 - 150 %): _____

Lab File ID: _____	Known Amount: _____
Date: _____	Calculated Amount: _____
Time: _____	OCN (I.S.) Peak Area: _____
	% Recovery of I.S. ( 50 - 150 %): _____

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**122 ng/mL LOW LEVEL STANDARD**

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0531A File ID: GC24-73-2		Continuing Calibration CCCS0531B File ID: GC24-73-12		Continuing Calibration CCCS0601B File ID: GC24-74-7	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.17	-13.0	1.19	-12.0	1.23	-8.53
37 (104,44)	3.06	+/-15	2.98	-2.72	3.03	-1.11	3.11	1.66
47 (70)	2.42	+/-15	2.23	-8.03	2.25	-6.86	2.32	-4.15
93 (174,181)	2.28	+/-15	2.14	-6.07	2.14	-5.98	2.22	-2.47
102 (180)	4.35	+/-15	4.03	-7.43	4.03	-7.41	4.18	-3.89
116 (205)	0.0788	+/-30	0.0736	-6.55	0.0679	-13.8	0.0723	-8.19
Total CCCS Conc.	122	+/-15	115	-6.09	117	-4.07	120	-1.79

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0531A	1422 uV	711 uV	369 uV
CCCS0531B	1464 uV	732 uV	384 uV
CCCS0601B	1396 uV	698 uV	364 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0531A	1709 uV	569.7 uV	82 uV
CCCS0531B	1742 uV	580.7 uV	98 uV
CCCS0601B	1681 uV	560.3 uV	77 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
 PCB CONTINUING CALIBRATION SUMMARY  
 122 ng/mL LOW LEVEL STANDARD

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0601C File ID: GC24-74-17		Continuing Calibration		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.15	-14.5				
37 (104,44)	3.06	+/-15	2.94	-3.94				
47 (70)	2.42	+/-15	2.20	-9.01				
93 (174,181)	2.28	+/-15	2.07	-9.09				
102 (180)	4.35	+/-15	3.94	-9.52				
116 (205)	0.0788	+/-30	0.0786	-0.204				
Total CCCS Conc.	122	+/-15	113	-7.60				

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0601C	1416 uV	708 uV	366 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0601C	1655 uV	551.7 uV	81 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0531A	CCCS0531A File ID: GC24-73-2		CCCS0531B File ID: GC24-73-12		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.57		11.57			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.68		12.68			
4	5 (4,10)	+/-0.07	13.28		13.28			
5	6 (7,9)	+/-0.07	14.13		14.13			
6	7 (6)	+/-0.07	14.43		14.43			
7	8 (5,8)	+/-0.07	14.62		14.62			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.25		15.25			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	15.97		15.98			
13	14 (15,18)	+/-0.07	16.11		16.11			
14	15 (17)	+/-0.07	16.19		16.19			
15	16 (24,27)	+/-0.07	16.49		16.49			
16	17 (16,32)	+/-0.07	16.74		16.74			
17	19 (23,34,54)	+/-0.07	17.18		17.20			
18	20 (29)	+/-0.07	17.36		17.37			
19	21 (26)	+/-0.07	17.49		17.49			
20	22 (25)	+/-0.07	17.58		17.58			
21	23 (31)	+/-0.07	17.77		17.78			
22	24 (28,50)	+/-0.07	17.82		17.82			
23	25 (20,21,33,53)	+/-0.07	18.17		18.17			
24	26 (22,51)	+/-0.07	18.40		18.40			
25	27 (45)	+/-0.07	18.63		18.63			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	18.90		18.90			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.20		19.20			
30	32 (43,49)	+/-0.07	19.36		19.36			
31	33 (38,47)	+/-0.07	19.48		19.48			
32	34 (48,75)	+/-0.07	19.54		19.54			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	19.76		19.73			
35	37 (104,44)	+/-0.07	19.93		19.93			
36	38 (37,42,59)	+/-0.07	20.06		20.06			
37	39 (41,64,71,72)	+/-0.07	20.40		20.40			
38	41 (68,96)	+/-0.07	20.57		20.57			
39	42 (40)	+/-0.07	20.67		20.67			
40	43 (57,103)	+/-0.07	20.91		20.91			
41	44 (58,67,100)	+/-0.07	21.08		21.09			
42	45 (63)	+/-0.07	21.24		21.24			
43	46 (74,94,61)	+/-0.07	21.41		21.41			
44	47 (70)	+/-0.07	21.55		21.54			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.66		21.66			
46	49 (55,91,121)	+/-0.07	21.96		21.96			
47	50 (56,60)	+/-0.07	22.26		22.26			
48	51 (84,92,155)	+/-0.07	22.50		22.50			
49	52 (89)	+/-0.07	22.60		22.61			
50	53 (90,101)	+/-0.07	22.76		22.76			
51	54 (79,99,113)	+/-0.07	22.95		22.95			
52	55 (119,150)	+/-0.07	23.22		23.23			
53	56 (78,83,112,108)	+/-0.07	23.32		23.32			
54	57 (97,152,86)	+/-0.07	23.53		23.54			
55	58 (81,87,117,125,115,145)	+/-0.07	23.71		23.71			
56	59 (116,85,111)	+/-0.07	23.86		23.86			

Nea Lims Version : 4.4.4.1

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0531A	CCCS0531A File ID: GC24-73-2		CCCS0531B File ID: GC24-73-12		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	23.99		23.99			
58	61 (77,110,148)	+/-0.07	24.11		24.11			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.48		24.48			
61	64 (151)	+/-0.07	24.78		24.78			
62	65 (124,135)	+/-0.07	24.91		24.91			
63	66 (144)	+/-0.07	24.97		24.97			
64	67 (107,109,147)	+/-0.07	25.03		25.02			
65	68 (123)	+/-0.07	25.13		25.12			
66	69 (106,118,139,149)	+/-0.07	25.22		25.22			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.61		25.61			
69	72 (122,131,133,142)	+/-0.07	25.82		25.82			
70	73 (146,165,188)	+/-0.07	26.09		26.08			
71	74 (105,132,161)	+/-0.07	26.21		26.21			
72	75 (153)	+/-0.07	26.36		26.36			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	26.87		26.87			
75	78 (179)	+/-0.07	26.94		26.94			
76	79 (137)	+/-0.07	27.14		27.16			
77	80 (130,176)	+/-0.07	27.29		27.29			
78	82 (138,163,164)	+/-0.07	27.50		27.50			
79	83 (158,160,186)	+/-0.07	27.68		27.68			
80	84 (126,129)	+/-0.07	27.88		27.88			
81	85 (166,178)	+/-0.07	28.21		28.21			
82	87 (175,159)	+/-0.07	28.50		28.49			
83	88 (182,187)	+/-0.07	28.65		28.64			
84	89 (128,162)	+/-0.07	28.74		28.75			
85	90 (183)	+/-0.07	28.94		28.94			
86	91 (167)	+/-0.07	29.20		29.20			
87	92 (185)	+/-0.07	29.52		29.52			
88	93 (174,181)	+/-0.07	29.88		29.88			
89	94 (177)	+/-0.07	30.14		30.14			
90	95 (156,171)	+/-0.07	30.43		30.43			
91	96 (157,202)	+/-0.07	30.68		30.69			
92	98 (173)	+/-0.07	30.84		30.86			
93	99 (201)	+/-0.07	31.21		31.21			
94	100 (172,204)	+/-0.07	31.45		31.44			
95	101 (192,197)	+/-0.07	31.74		31.74			
96	102 (180)	+/-0.07	31.91		31.91			
97	103 (193)	+/-0.07	32.15		32.15			
98	104 (191)	+/-0.07	32.43		32.43			
99	105 (200,169)	+/-0.07	32.78		32.78			
100	106 (170)	+/-0.07	33.89		33.89			
101	107 (190)	+/-0.07	34.15		34.14			
102	108 (198)	+/-0.07	34.99		34.98			
103	109 (199)	+/-0.07	35.21		35.22			
104	110 (196,203)	+/-0.07	35.73		35.74			
105	111 (189)	+/-0.07	36.86		36.88			
106	112 (195)	+/-0.07	38.35		38.35			
107	113 (208)	+/-0.07	38.86		38.87			
108	114 (207)	+/-0.07	39.77		39.76			
109	115 (194)	+/-0.07	41.12		41.12			
110	116 (205)	+/-0.07	41.99		41.96			
111	117 (206)	+/-0.07	46.92		46.93			
112	118 (209)	+/-0.07	52.77		52.76			

Nea Lims Version : 4.4.4.1

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0601B	CCCS0601B File ID: GC24-74-7		CCCS0601C File ID: GC24-74-17		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.57		11.57			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.68		12.68			
4	5 (4,10)	+/-0.07	13.28		13.28			
5	6 (7,9)	+/-0.07	14.13		14.13			
6	7 (6)	+/-0.07	14.43		14.43			
7	8 (5,8)	+/-0.07	14.62		14.62			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.25		15.25			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	15.97		15.97			
13	14 (15,18)	+/-0.07	16.10		16.11			
14	15 (17)	+/-0.07	16.19		16.19			
15	16 (24,27)	+/-0.07	16.48		16.48			
16	17 (16,32)	+/-0.07	16.74		16.74			
17	19 (23,34,54)	+/-0.07	17.19		17.21			
18	20 (29)	+/-0.07	17.37		17.37			
19	21 (26)	+/-0.07	17.49		17.49			
20	22 (25)	+/-0.07	17.57		17.58			
21	23 (31)	+/-0.07	17.77		17.77			
22	24 (28,50)	+/-0.07	17.82		17.82			
23	25 (20,21,33,53)	+/-0.07	18.17		18.17			
24	26 (22,51)	+/-0.07	18.40		18.40			
25	27 (45)	+/-0.07	18.63		18.63			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	18.90		18.90			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.20		19.20			
30	32 (43,49)	+/-0.07	19.36		19.36			
31	33 (38,47)	+/-0.07	19.48		19.48			
32	34 (48,75)	+/-0.07	19.54		19.54			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	19.76		19.73			
35	37 (104,44)	+/-0.07	19.93		19.93			
36	38 (37,42,59)	+/-0.07	20.06		20.06			
37	39 (41,64,71,72)	+/-0.07	20.40		20.40			
38	41 (68,96)	+/-0.07	20.57		20.58			
39	42 (40)	+/-0.07	20.67		20.66			
40	43 (57,103)	+/-0.07	20.91		20.90			
41	44 (58,67,100)	+/-0.07	21.09		21.08			
42	45 (63)	+/-0.07	21.24		21.24			
43	46 (74,94,61)	+/-0.07	21.41		21.41			
44	47 (70)	+/-0.07	21.54		21.54			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.66		21.66			
46	49 (55,91,121)	+/-0.07	21.96		21.96			
47	50 (56,60)	+/-0.07	22.26		22.26			
48	51 (84,92,155)	+/-0.07	22.50		22.50			
49	52 (89)	+/-0.07	22.60		22.60			
50	53 (90,101)	+/-0.07	22.76		22.76			
51	54 (79,99,113)	+/-0.07	22.95		22.95			
52	55 (119,150)	+/-0.07	23.23		23.24			
53	56 (78,83,112,108)	+/-0.07	23.33		23.32			
54	57 (97,152,86)	+/-0.07	23.53		23.53			
55	58 (81,87,117,125,115,145)	+/-0.07	23.71		23.71			
56	59 (116,85,111)	+/-0.07	23.86		23.86			

Nea Lims Version : 4.4.4.1

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0601B	CCCS0601B File ID: GC24-74-7		CCCS0601C File ID: GC24-74-17		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	23.98		23.99			
58	61 (77,110,148)	+/-0.07	24.11		24.11			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.48		24.48			
61	64 (151)	+/-0.07	24.77		24.78			
62	65 (124,135)	+/-0.07	24.91		24.91			
63	66 (144)	+/-0.07	24.97		24.97			
64	67 (107,109,147)	+/-0.07	25.03		25.03			
65	68 (123)	+/-0.07	25.12		25.12			
66	69 (106,118,139,149)	+/-0.07	25.22		25.22			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.61		25.61			
69	72 (122,131,133,142)	+/-0.07	25.80		25.81			
70	73 (146,165,188)	+/-0.07	26.08		26.09			
71	74 (105,132,161)	+/-0.07	26.20		26.20			
72	75 (153)	+/-0.07	26.36		26.36			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	26.87		26.87			
75	78 (179)	+/-0.07	26.94		26.94			
76	79 (137)	+/-0.07	27.13		27.14			
77	80 (130,176)	+/-0.07	27.28		27.29			
78	82 (138,163,164)	+/-0.07	27.50		27.51			
79	83 (158,160,186)	+/-0.07	27.68		27.68			
80	84 (126,129)	+/-0.07	27.87		27.88			
81	85 (166,178)	+/-0.07	28.21		28.21			
82	87 (175,159)	+/-0.07	28.50		28.51			
83	88 (182,187)	+/-0.07	28.64		28.64			
84	89 (128,162)	+/-0.07	28.75		28.74			
85	90 (183)	+/-0.07	28.94		28.94			
86	91 (167)	+/-0.07	29.18		29.20			
87	92 (185)	+/-0.07	29.52		29.52			
88	93 (174,181)	+/-0.07	29.88		29.89			
89	94 (177)	+/-0.07	30.14		30.14			
90	95 (156,171)	+/-0.07	30.43		30.43			
91	96 (157,202)	+/-0.07	30.69		30.69			
92	98 (173)	+/-0.07	30.86		30.83			
93	99 (201)	+/-0.07	31.20		31.20			
94	100 (172,204)	+/-0.07	31.45		31.45			
95	101 (192,197)	+/-0.07	31.72		31.71			
96	102 (180)	+/-0.07	31.91		31.91			
97	103 (193)	+/-0.07	32.14		32.15			
98	104 (191)	+/-0.07	32.43		32.43			
99	105 (200,169)	+/-0.07	32.78		32.78			
100	106 (170)	+/-0.07	33.89		33.89			
101	107 (190)	+/-0.07	34.14		34.15			
102	108 (198)	+/-0.07	34.99		34.99			
103	109 (199)	+/-0.07	35.21		35.21			
104	110 (196,203)	+/-0.07	35.73		35.74			
105	111 (189)	+/-0.07	36.84		36.86			
106	112 (195)	+/-0.07	38.35		38.35			
107	113 (208)	+/-0.07	38.84		38.87			
108	114 (207)	+/-0.07	39.75		39.78			
109	115 (194)	+/-0.07	41.12		41.12			
110	116 (205)	+/-0.07	41.97		41.97			
111	117 (206)	+/-0.07	46.93		46.92			
112	118 (209)	+/-0.07	52.76		52.76			

Nea Lims Version : 4.4.4.1

Calibration Component Summary Table  
Component Summary for RF  
(GC-16)



Project Name:	GC16_May_2009	Current Time:	13:15:45
Sample Set Name:	GC16_CC_050609	Current Date:	6/5/2009
Processing Method:	CSGB_LL1X_050609	Calibration ID:	1589
Run Time:	60 Minutes	Calibration Date(s):	5/6/2009,5/7/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999816	Y = 2.60e-002 X + 8.38e-004	0.000837980962431428	0.0259899794352835
2	3 (2)	1.000000	Y = 3.22e-003 X	0	0.00322047903629169
3	4 (3)	0.999826	Y = 1.40e-002 X - 2.21e-004	-0.00022143548338424	0.0140133433319204
4	5 (4,10)	0.999518	Y = 6.05e-002 X + 1.04e-003	0.00103619581119557	0.0604662294201517
5	6 (7,9)	0.999793	Y = 4.32e-001 X + 3.04e-003	0.00303547439347779	0.431914212501526
6	7 (6)	0.999856	Y = 2.09e-001 X + 1.81e-003	0.00181185571626979	0.208951185089424
7	8 (5,8)	0.999803	Y = 1.14e-001 X + 1.35e-002	0.0135422293904375	0.114033033183329
8	9 (14)	1.000000	Y = 1.70e-001 X	0	0.16984784366721
9	10 (19)	0.999756	Y = 3.21e-001 X + 9.41e-004	0.000940547769271133	0.321247831880479
10	11 (30)	1.000000	Y = 6.13e-001 X	0	0.612513021009719
11	12 (11)	1.000000	Y = 6.06e-002 X	0	0.0606200992839344
12	13 (12,13)	0.999611	Y = 3.29e-001 X - 1.71e-004	-0.00017078934945105	0.329295645509976
13	14 (15,18)	0.999925	Y = 3.73e-001 X + 8.81e-003	0.00881339523004154	0.372802915303482
14	15 (17)	0.999995	Y = 1.74e-001 X + 1.06e-003	0.00105607786058182	0.174251903518985
15	16 (24,27)	0.999520	Y = 5.35e-001 X + 4.94e-004	0.000493625525721741	0.534947561434169
16	17 (16,32)	0.999943	Y = 3.06e-001 X + 3.28e-003	0.00327752973927486	0.306165944525684
17	19 (23,34,54)	1.000000	Y = 3.79e-001 X	0	0.379022232813233
18	20 (29)	0.999982	Y = 5.24e-001 X + 9.81e-005	9.8111729985452E-5	0.524409419126058
19	21 (26)	0.999752	Y = 4.04e-001 X + 6.36e-004	0.000635785038031744	0.404244164180601
20	22 (25)	0.999744	Y = 5.39e-001 X - 5.90e-006	-5.90266015812468E-6	0.539375604682298
21	23 (31)	0.998694	Y = 5.19e-001 X + 2.00e-002	0.0200202454252159	0.518897502234466
22	24 (28,50)	0.999737	Y = 5.56e-001 X + 2.51e-002	0.0250856758991236	0.555677671081148
23	25 (20,21,33,53)	0.999885	Y = 4.31e-001 X + 1.17e-002	0.0117154782602649	0.43059258836613
24	26 (22,51)	0.999982	Y = 4.07e-001 X + 6.24e-003	0.0062392206197357	0.40746176349979
25	27 (45)	0.999784	Y = 4.44e-001 X + 1.94e-003	0.00194331962204508	0.44427398654717
26	28 (36)	1.000000	Y = 3.05e-001 X	0	0.305306384693181
27	29 (46)	0.999807	Y = 3.88e-001 X + 1.52e-003	0.00151690913489969	0.387818157740931
28	30 (39)	1.000000	Y = 3.01e-001 X	0	0.300992815892626
29	31 (52,69,73)	0.999794	Y = 3.51e-001 X + 1.00e-002	0.0100470072009429	0.350739331799423
30	32 (43,49)	0.999873	Y = 6.90e-001 X + 8.96e-003	0.00895965817728461	0.689925553442643
31	33 (38,47)	0.999949	Y = 9.47e-001 X + 9.22e-003	0.00922223329473237	0.946650420616366
32	34 (48,75)	0.999984	Y = 6.57e-001 X + 4.30e-003	0.00429779899745386	0.657435286456736
33	35 (62,65)	1.000000	Y = 7.33e-001 X	0	0.733346383500446
34	36 (35)	1.000000	Y = 2.99e-001 X	0	0.299442002281236
35	37 (104,44)	0.999824	Y = 5.39e-001 X + 9.44e-003	0.00943794256115549	0.538751946609796
36	38 (37,42,59)	0.999448	Y = 4.20e-001 X + 5.36e-003	0.00536046373728816	0.420372909581131
37	39 (41,64,71,72)	0.999565	Y = 6.74e-001 X + 1.92e-002	0.019155970368963	0.673803009964393
38	41 (68,96)	1.000000	Y = 4.18e-001 X	0	0.417594516078079



Project Name:	GC16_May_2009	Current Time:	13:15:45
Sample Set Name:	GC16_CC_050609	Current Date:	6/5/2009
Processing Method:	CSGB_LL1X_050609	Calibration ID:	1589
Run Time:	60 Minutes	Calibration Date(s):	5/6/2009,5/7/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999890	Y = 5.44e-001 X - 1.22e-003	-0.00122163606004788	0.544150504982409
40	43 (57,103)	1.000000	Y = 5.74e-001 X	0	0.573508680239065
41	44 (58,67,100)	0.999886	Y = 7.82e-001 X - 1.50e-004	-0.00015006647847198	0.781987608273385
42	45 (63)	0.999754	Y = 7.58e-001 X + 3.63e-004	0.000362515893026827	0.75811814447908
43	46 (74,94,61)	0.999761	Y = 1.02e+000 X + 1.29e-002	0.0128694345485105	1.02332356512705
44	47 (70)	0.999278	Y = 8.22e-001 X + 2.58e-002	0.0257837327351282	0.821584531917877
45	48 (66,76,98,80,93,95,102,88)	0.999556	Y = 5.41e-001 X + 3.22e-002	0.032240064589566	0.541416762645955
46	49 (55,91,121)	0.999649	Y = 6.02e-001 X - 4.04e-004	-0.00040431260335882	0.602484308701469
47	50 (56,60)	0.999552	Y = 8.15e-001 X + 1.24e-002	0.0124483225866081	0.81461067603182
48	51 (84,92,155)	0.999591	Y = 3.07e-001 X + 1.04e-004	0.000103976863724764	0.306541290321159
49	52 (89)	0.995038	Y = 6.07e-001 X + 4.33e-004	0.000432632606568444	0.607002466952623
50	53 (90,101)	0.999804	Y = 6.89e-001 X + 4.24e-003	0.00423856025342828	0.689383872820513
51	54 (79,99,113)	0.999740	Y = 1.05e+000 X + 4.40e-003	0.00440055122512351	1.04936775523372
52	55 (119,150)	0.995207	Y = 1.65e+000 X + 1.91e-004	0.000191451682649946	1.65348166628346
53	56 (78,83,112,108)	0.998323	Y = 6.17e-001 X + 1.09e-003	0.00108994765025619	0.616543172647886
54	57 (97,152,86)	0.999735	Y = 8.83e-001 X + 2.58e-003	0.00257638155369716	0.882638356162426
55	58 (81,87,117,125,115,145)	0.999689	Y = 7.56e-001 X + 6.87e-003	0.00686584887832375	0.756298012812337
56	59 (116,85,111)	0.999948	Y = 9.05e-001 X + 3.23e-003	0.00323362849185693	0.904891088816142
57	60 (120,136)	0.999762	Y = 7.65e-001 X + 2.87e-003	0.00287264882206473	0.764937810653158
58	61 (77,110,148)	0.999844	Y = 6.79e-001 X + 5.55e-003	0.00554750750209609	0.678777448560319
59	62 (154)	1.000000	Y = 6.79e-001 X	0	0.678918580607139
60	63 (82)	0.999412	Y = 8.01e-001 X + 2.22e-003	0.00222164247139811	0.801093728006925
61	64 (151)	0.999964	Y = 7.46e-001 X + 6.55e-003	0.00655066236699131	0.746254424981564
62	65 (124,135)	0.999756	Y = 1.23e+000 X - 6.63e-004	-0.00066282741298490	1.22860525278492
63	66 (144)	0.999544	Y = 4.64e-001 X + 3.09e-004	0.000309023623084992	0.464246369279442
64	67 (107,109,147)	0.998352	Y = 6.64e-001 X + 1.74e-003	0.00173680456545418	0.66402832516927
65	68 (123)	1.000000	Y = 7.82e-001 X	0	0.782083858655414
66	69 (106,118,139,149)	0.999243	Y = 8.37e-001 X + 2.94e-002	0.0294417211537326	0.836681831040596
67	70 (140)	1.000000	Y = 7.92e-001 X	0	0.791949209528961
68	71 (114,134,143)	0.999381	Y = 8.83e-001 X + 5.98e-004	0.000598412112951807	0.883458510767823
69	72 (122,131,133,142)	0.997374	Y = 1.47e+000 X + 5.24e-004	0.0005239551156518	1.46776275466381
70	73 (146,165,188)	0.999445	Y = 8.66e-001 X + 1.70e-003	0.00170380370359241	0.866004071704375
71	74 (105,132,161)	0.999917	Y = 1.11e+000 X + 6.76e-003	0.00675873365628199	1.11379562748807
72	75 (153)	0.999246	Y = 1.03e+000 X + 2.67e-002	0.0266773953986323	1.02648053140956
73	76 (127,168,184)	1.000000	Y = 7.09e-001 X	0	0.708641455206396
74	77 (141)	0.999763	Y = 6.23e-001 X + 1.05e-002	0.0105114615088917	0.622660653409209
75	78 (179)	0.999483	Y = 7.99e-001 X + 2.64e-003	0.00263894079673799	0.798797018953919
76	79 (137)	0.999955	Y = 5.39e-001 X + 4.56e-004	0.000456112224895736	0.538746300621942



Project Name:	GC16_May_2009	Current Time:	13:15:46
Sample Set Name:	GC16_CC_050609	Current Date:	6/5/2009
Processing Method:	CSGB_LL1X_050609	Calibration ID:	1589
Run Time:	60 Minutes	Calibration Date(s):	5/6/2009,5/7/2009

**Correlation Summary**

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.999629	Y = 1.55e+000 X + 3.57e-003	0.00357241490950477	1.55343696351152
78	82 (138,163,164)	0.999772	Y = 9.49e-001 X + 2.52e-002	0.0251589754453687	0.949128701402356
79	83 (158,160,186)	0.999768	Y = 9.88e-001 X + 2.20e-003	0.00219889490890807	0.987993008658532
80	84 (126,129)	0.999699	Y = 4.29e+000 X + 6.04e-004	0.000603895842683777	4.28861458802207
81	85 (166,178)	0.999975	Y = 4.86e-001 X - 1.87e-003	-0.00186536822308708	0.486183383131449
82	87 (175,159)	0.999747	Y = 5.61e-001 X + 1.55e-003	0.00155354982403207	0.561318809334301
83	88 (182,187)	0.999652	Y = 9.27e-001 X + 2.77e-002	0.0276700648068551	0.926839556771339
84	89 (128,162)	0.999850	Y = 1.34e+000 X + 1.88e-004	0.000188091257204842	1.34051375677499
85	90 (183)	0.999958	Y = 8.87e-001 X + 4.44e-003	0.0044403584238748	0.887475008537425
86	91 (167)	0.998965	Y = 1.11e+000 X + 7.84e-004	0.000784196928246272	1.10507658149259
87	92 (185)	0.999778	Y = 1.23e+000 X + 7.01e-003	0.00701486996271661	1.22850573500267
88	93 (174,181)	0.999914	Y = 8.95e-001 X + 2.06e-002	0.0205758523687329	0.894512401639791
89	94 (177)	0.999998	Y = 7.82e-001 X + 8.91e-003	0.00891166901548557	0.7817076666565031
90	95 (156,171)	0.999863	Y = 8.27e-001 X + 1.87e-003	0.00186991176672679	0.826709573357968
91	96 (157,202)	0.999907	Y = 5.92e+000 X + 3.04e-004	0.000304107741047999	5.91807682338628
92	98 (173)	0.998694	Y = 1.14e+000 X + 5.35e-004	0.00053485268630591	1.1432823585321
93	99 (201)	0.999999	Y = 7.86e-001 X - 4.04e-004	-0.00040372361786256	0.786314317882603
94	100 (172,204)	0.999777	Y = 7.46e-001 X + 8.38e-004	0.000837510195321689	0.746264677150805
95	101 (192,197)	0.997975	Y = 7.10e-001 X + 1.02e-003	0.00101604456708414	0.710013788721199
96	102 (180)	0.999496	Y = 1.04e+000 X + 4.64e-002	0.046413556892448	1.04273562648021
97	103 (193)	0.999879	Y = 7.95e-001 X - 1.25e-003	-0.00125141731043055	0.794649450437867
98	104 (191)	0.997237	Y = 7.76e-001 X - 1.35e-004	-0.00013521540315339	0.775836752385646
99	105 (200,169)	0.999889	Y = 8.70e-001 X + 1.11e-003	0.00111049035611493	0.87040172219797
100	106 (170)	0.999857	Y = 1.60e+000 X + 7.00e-003	0.00699922351578275	1.59550921884868
101	107 (190)	0.999370	Y = 1.29e+000 X - 3.06e-003	-0.00306240869278018	1.29058397351705
102	108 (198)	1.000000	Y = 1.13e+000 X + 3.18e-004	0.000318304111420226	1.134662801692
103	109 (199)	0.999995	Y = 6.07e-001 X + 7.49e-003	0.00749499209430349	0.60670755454749
104	110 (196,203)	0.999996	Y = 6.66e-001 X + 6.61e-003	0.00660808785069644	0.665570993257235
105	111 (189)	0.999996	Y = 1.30e+000 X + 4.99e-004	0.000499320980571691	1.29989172304745
106	112 (195)	0.999890	Y = 1.74e+000 X - 3.73e-003	-0.0037328653159604	1.73880894635677
107	113 (208)	0.999656	Y = 6.04e-001 X + 4.38e-004	0.00043849300043558	0.604138560423512
108	114 (207)	0.999613	Y = 1.20e+000 X + 6.21e-004	0.000621403059789458	1.19952266634964
109	115 (194)	1.000000	Y = 1.46e+000 X + 9.57e-003	0.00956849110494851	1.45760580662245
110	116 (205)	0.999698	Y = 1.10e+000 X - 4.71e-004	-0.00047067280838228	1.10289772790427
111	117 (206)	0.999846	Y = 1.31e+000 X - 9.78e-004	-0.00097774759353896	1.31412036735274
112	118 (209)	0.999963	Y = 1.47e+000 X + 4.98e-005	4.98021385873827E-5	1.47425755145934
113	I.S. (OCN)	1.000000	Y = 7.46e+003 X	0	7456.1200954431

Calibration Component Summary Table  
Component Summary for RF  
(GC-24)



Project Name:	GC24_Mar_2009	Current Time:	13:15:46
Sample Set Name:	GC24_CC_051909	Current Date:	6/5/2009
Processing Method:	CSGB_LL1X_051909	Calibration ID:	16666
Run Time:	60 Minutes	Calibration Date(s):	5/20/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999575	Y = 3.09e-002 X + 2.07e-003	0.00206705969301857	0.0309194715483761
2	3 (2)	1.000000	Y = 3.73e-003 X	0	0.00372826264897671
3	4 (3)	0.999985	Y = 1.63e-002 X - 5.59e-004	-0.00055908602912781	0.016280867313507
4	5 (4,10)	0.999367	Y = 7.08e-002 X + 1.35e-003	0.00134698404867273	0.0708161427922385
5	6 (7,9)	0.999762	Y = 4.83e-001 X + 3.90e-003	0.00389713574133788	0.483029047190598
6	7 (6)	0.999132	Y = 2.37e-001 X + 4.10e-003	0.0041034515911676	0.237326047406031
7	8 (5,8)	0.999512	Y = 1.24e-001 X + 1.94e-002	0.0193638128369826	0.123898002176251
8	9 (14)	1.000000	Y = 1.81e-001 X	0	0.180830218541806
9	10 (19)	0.999894	Y = 3.79e-001 X - 9.24e-004	-0.00092361332299195	0.378503817213974
10	11 (30)	1.000000	Y = 6.66e-001 X	0	0.66572377286361
11	12 (11)	1.000000	Y = 6.37e-002 X	0	0.0637311768270859
12	13 (12,13)	0.999144	Y = 3.81e-001 X - 1.63e-003	-0.00163418961420378	0.381218151329593
13	14 (15,18)	0.999827	Y = 3.91e-001 X + 1.93e-002	0.0192541079358082	0.390944658189704
14	15 (17)	0.999309	Y = 1.87e-001 X + 5.01e-003	0.00500594700346668	0.187133839407594
15	16 (24,27)	0.999498	Y = 6.10e-001 X + 1.04e-003	0.00104415558520116	0.609530716962526
16	17 (16,32)	0.999701	Y = 3.30e-001 X + 1.19e-002	0.0119208402822457	0.329617782491444
17	19 (23,34,54)	1.000000	Y = 4.00e-001 X	0	0.40020226822249
18	20 (29)	0.999811	Y = 6.73e-001 X + 2.07e-005	2.06543113139557E-5	0.673034692989173
19	21 (26)	0.999763	Y = 4.43e-001 X + 6.40e-004	0.000639653987790589	0.442523446690824
20	22 (25)	0.999776	Y = 5.80e-001 X - 2.53e-005	-2.52858018310598E-5	0.580030074425565
21	23 (31)	0.999264	Y = 5.27e-001 X + 3.13e-002	0.031325042369915	0.527219792834913
22	24 (28,50)	0.999665	Y = 5.92e-001 X + 3.06e-002	0.0305571140317582	0.59246910418888
23	25 (20,21,33,53)	0.999568	Y = 4.58e-001 X + 1.82e-002	0.0182134868133408	0.457691370276603
24	26 (22,51)	0.999684	Y = 4.36e-001 X + 1.40e-002	0.0139797516294418	0.436348091230686
25	27 (45)	0.999568	Y = 4.92e-001 X + 1.15e-003	0.00114896574138962	0.492320769840655
26	28 (36)	1.000000	Y = 3.10e-001 X	0	0.310499211557503
27	29 (46)	0.999079	Y = 4.38e-001 X + 7.57e-004	0.000756994683620643	0.438455984190503
28	30 (39)	1.000000	Y = 3.04e-001 X	0	0.304118675618949
29	31 (52,69,73)	0.999426	Y = 3.56e-001 X + 1.89e-002	0.0188740522943813	0.355792627126559
30	32 (43,49)	0.999574	Y = 7.11e-001 X + 1.49e-002	0.0149027875282279	0.711002494470916
31	33 (38,47)	0.998886	Y = 1.01e+000 X + 6.89e-003	0.00688932021555722	1.01118198648965
32	34 (48,75)	0.999213	Y = 7.25e-001 X + 9.36e-003	0.00935981592431312	0.725283385046781
33	35 (62,65)	1.000000	Y = 7.98e-001 X	0	0.798101004896703
34	36 (35)	1.000000	Y = 2.97e-001 X	0	0.29742289075574
35	37 (104,44)	0.999232	Y = 5.54e-001 X + 3.19e-002	0.0319445711655302	0.553753009481678
36	38 (37,42,59)	0.999472	Y = 4.48e-001 X + 1.35e-002	0.0135355508969393	0.44804980130879
37	39 (41,64,71,72)	0.999457	Y = 7.17e-001 X + 3.10e-002	0.0310483611595127	0.717200844509956
38	41 (68,96)	1.000000	Y = 4.23e-001 X	0	0.422509083805419



Project Name:	GC24_Mar_2009	Current Time:	13:15:46
Sample Set Name:	GC24_CC_051909	Current Date:	6/5/2009
Processing Method:	CSGB_LL1X_051909	Calibration ID:	16666
Run Time:	60 Minutes	Calibration Date(s):	5/20/2009

**Correlation Summary**

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999337	Y = 6.04e-001 X - 5.42e-004	-0.00054217805957290	0.60400693604042
40	43 (57,103)	1.000000	Y = 5.87e-001 X	0	0.586988438524173
41	44 (58,67,100)	0.999302	Y = 8.82e-001 X - 1.61e-004	-0.00016068045118040	0.881779124864276
42	45 (63)	0.999129	Y = 8.56e-001 X + 3.23e-004	0.000323375808139625	0.85603061890811
43	46 (74,94,61)	0.999687	Y = 1.06e+000 X + 2.29e-002	0.0228567792436027	1.05988473972809
44	47 (70)	0.999528	Y = 8.43e-001 X + 3.31e-002	0.0331249962615527	0.84312735631963
45	48 (66,76,98,80,93,95,102,88)	0.999532	Y = 5.61e-001 X + 5.15e-002	0.0514763223433561	0.560585545749401
46	49 (55,91,121)	0.999496	Y = 6.66e-001 X + 3.30e-003	0.00329894336522218	0.666086818045232
47	50 (56,60)	0.999648	Y = 8.57e-001 X + 3.58e-002	0.0357775075819693	0.857267329807312
48	51 (84,92,155)	0.999204	Y = 3.30e-001 X + 1.18e-003	0.0011807137208889	0.330120273045822
49	52 (89)	0.998519	Y = 6.63e-001 X + 5.95e-004	0.000594601708037032	0.663474847359483
50	53 (90,101)	0.998980	Y = 7.06e-001 X + 8.93e-003	0.00893234360772754	0.705573223261763
51	54 (79,99,113)	0.998987	Y = 1.10e+000 X + 6.27e-003	0.00626721256910345	1.0968700790182
52	55 (119,150)	0.997118	Y = 1.70e+000 X + 3.40e-004	0.000339684776118981	1.69952423590629
53	56 (78,83,112,108)	0.999442	Y = 6.75e-001 X - 5.28e-004	-0.00052808989350343	0.675482316198415
54	57 (97,152,86)	0.999450	Y = 9.56e-001 X + 2.10e-003	0.00210400291305557	0.955818070723889
55	58 (81,87,117,125,115,145)	0.999337	Y = 8.02e-001 X + 6.13e-003	0.0061287203263124	0.80217185576325
56	59 (116,85,111)	0.999738	Y = 9.89e-001 X + 3.18e-003	0.00318095119529438	0.989289865660487
57	60 (120,136)	0.999671	Y = 8.01e-001 X + 8.35e-003	0.00834546911901324	0.801252748893685
58	61 (77,110,148)	0.999451	Y = 7.04e-001 X + 1.65e-002	0.0164853437823635	0.703511183769472
59	62 (154)	1.000000	Y = 6.94e-001 X	0	0.693516085986363
60	63 (82)	0.999550	Y = 8.91e-001 X - 9.39e-004	-0.00093913530317751	0.890670964431909
61	64 (151)	0.999557	Y = 7.73e-001 X + 1.42e-002	0.0142023355815728	0.77260216815295
62	65 (124,135)	0.999851	Y = 1.38e+000 X + 2.09e-003	0.00209445218688831	1.37992189384358
63	66 (144)	0.998558	Y = 5.01e-001 X - 5.52e-005	-5.51972306607751E-5	0.500659717682379
64	67 (107,109,147)	0.996120	Y = 6.69e-001 X + 1.24e-003	0.0012354289760332	0.669335793508429
65	68 (123)	1.000000	Y = 8.04e-001 X	0	0.804415434372344
66	69 (106,118,139,149)	0.999335	Y = 8.53e-001 X + 4.32e-002	0.043187720514791	0.853361260616962
67	70 (140)	1.000000	Y = 8.17e-001 X	0	0.816789836193655
68	71 (114,134,143)	0.999728	Y = 9.82e-001 X - 2.27e-004	-0.00022723551314585	0.981821272135589
69	72 (122,131,133,142)	0.998242	Y = 1.56e+000 X - 2.86e-004	-0.00028576393388318	1.55760730080553
70	73 (146,165,188)	0.999533	Y = 9.58e-001 X - 1.79e-006	-1.78924418053894E-6	0.958454266234542
71	74 (105,132,161)	0.999256	Y = 1.18e+000 X + 4.30e-003	0.00429688523390648	1.18099993739312
72	75 (153)	0.999320	Y = 1.05e+000 X + 3.60e-002	0.0360483596871646	1.05112947793553
73	76 (127,168,184)	1.000000	Y = 7.12e-001 X	0	0.711536837270072
74	77 (141)	0.998970	Y = 6.66e-001 X + 8.19e-003	0.00819277922402439	0.66587714114836
75	78 (179)	0.998734	Y = 7.97e-001 X + 5.49e-003	0.00549255185918729	0.796901551027843
76	79 (137)	0.997100	Y = 4.92e-001 X + 5.12e-004	0.000511826619128741	0.492330326059171

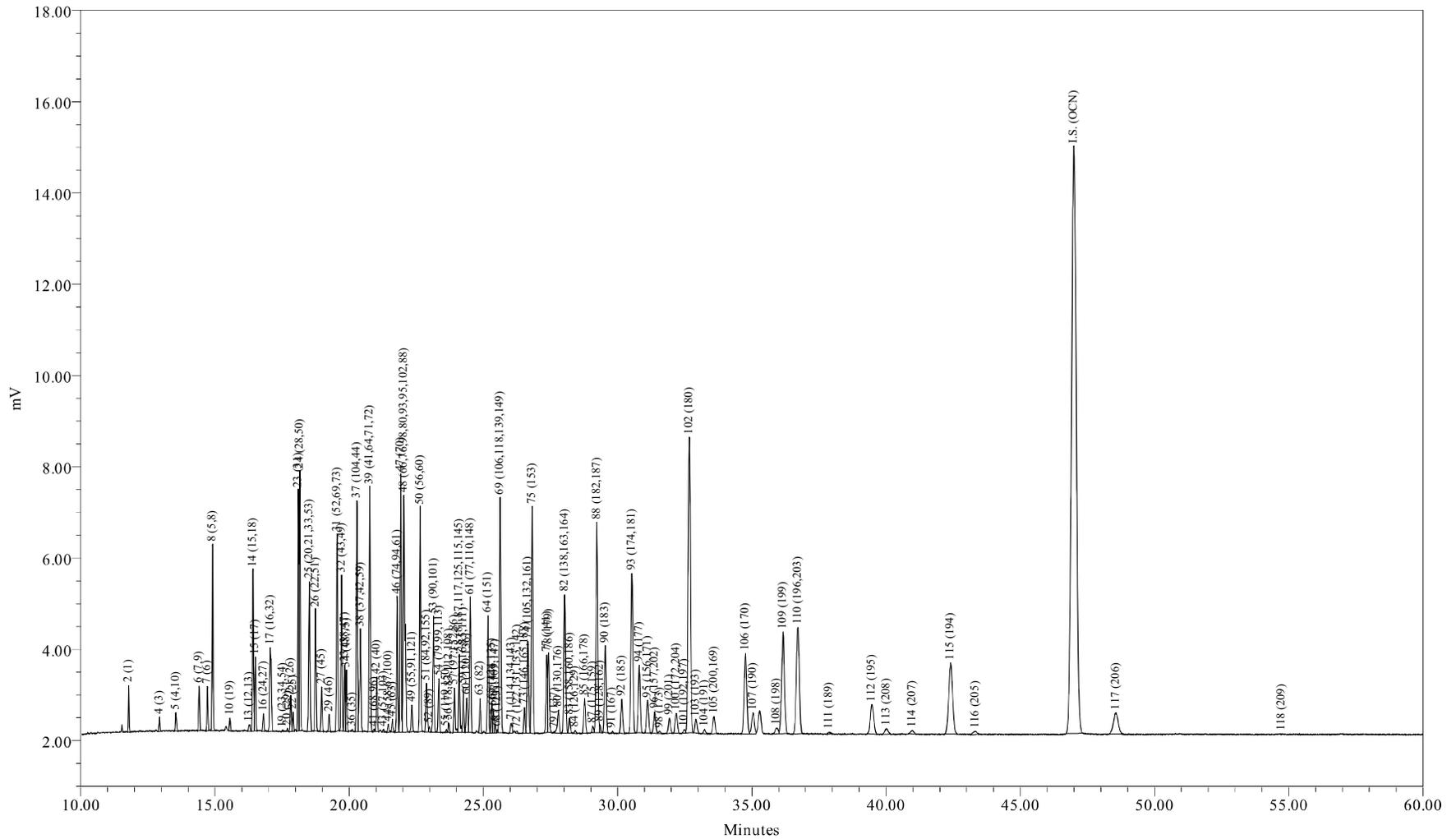


Project Name:	GC24_Mar_2009	Current Time:	13:15:46
Sample Set Name:	GC24_CC_051909	Current Date:	6/5/2009
Processing Method:	CSGB_LL1X_051909	Calibration ID:	16666
Run Time:	60 Minutes	Calibration Date(s):	5/20/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.998179	Y = 1.82e+000 X + 4.47e-003	0.00447099473634105	1.82297530752434
78	82 (138,163,164)	0.999249	Y = 9.98e-001 X + 3.38e-002	0.0338128035029843	0.997723021242245
79	83 (158,160,186)	0.999059	Y = 1.17e+000 X + 1.16e-003	0.00115510171326799	1.16908700692326
80	84 (126,129)	0.998148	Y = 4.76e+000 X + 4.77e-004	0.000477068650858128	4.76484291534076
81	85 (166,178)	0.999578	Y = 5.37e-001 X + 4.59e-003	0.00459430356997381	0.537202857750042
82	87 (175,159)	0.999583	Y = 6.06e-001 X - 8.76e-004	-0.00087609539268965	0.606284239823208
83	88 (182,187)	0.999436	Y = 9.62e-001 X + 4.21e-002	0.0420789061137907	0.961941813398709
84	89 (128,162)	0.999587	Y = 1.36e+000 X - 5.21e-004	-0.00052146838975758	1.35714212111374
85	90 (183)	0.999499	Y = 9.38e-001 X + 8.47e-003	0.00847398993038295	0.938013480068618
86	91 (167)	0.996090	Y = 1.39e+000 X + 8.87e-004	0.000887219250638338	1.39477409273494
87	92 (185)	0.999647	Y = 1.40e+000 X - 2.34e-003	-0.00234214496946794	1.39701695130722
88	93 (174,181)	0.999724	Y = 9.39e-001 X + 2.94e-002	0.0294275084124056	0.938639475772531
89	94 (177)	0.999345	Y = 8.45e-001 X + 4.31e-003	0.00430595292669267	0.845144897773941
90	95 (156,171)	0.999462	Y = 9.34e-001 X + 3.63e-003	0.0036330014983128	0.933905199727212
91	96 (157,202)	0.999686	Y = 6.51e+000 X - 7.49e-004	-0.00074882761398487	6.51240985866064
92	98 (173)	0.998939	Y = 1.20e+000 X + 6.85e-004	0.000685438784155681	1.2047865476684
93	99 (201)	0.999937	Y = 9.02e-001 X - 6.76e-004	-0.00067571874450206	0.901911753492894
94	100 (172,204)	0.999792	Y = 8.57e-001 X + 3.51e-003	0.00351060080594384	0.856666246394919
95	101 (192,197)	0.999585	Y = 7.27e-001 X + 7.57e-004	0.000756816398108831	0.726941106077834
96	102 (180)	0.999492	Y = 1.10e+000 X + 7.94e-002	0.0794311330436761	1.10048237673741
97	103 (193)	0.999676	Y = 9.05e-001 X - 2.29e-003	-0.00228797663331637	0.904950342812774
98	104 (191)	0.999977	Y = 8.55e-001 X + 7.15e-004	0.000715175146052516	0.855485263707892
99	105 (200,169)	0.999790	Y = 9.80e-001 X + 5.69e-004	0.00056928889311515	0.98033853960275
100	106 (170)	0.999947	Y = 1.69e+000 X + 2.14e-002	0.0214257222973999	1.6908686833203
101	107 (190)	0.998938	Y = 1.43e+000 X - 5.79e-003	-0.00578560552150098	1.43095572506392
102	108 (198)	0.998267	Y = 1.65e+000 X + 9.05e-004	0.000905373616641531	1.64529062443625
103	109 (199)	0.999478	Y = 6.51e-001 X + 2.41e-002	0.0241277560730211	0.65060483458814
104	110 (196,203)	0.999608	Y = 7.07e-001 X + 3.29e-002	0.0329097571927184	0.706981432326174
105	111 (189)	0.999087	Y = 1.74e+000 X + 5.99e-004	0.000598829763398964	1.73640326093177
106	112 (195)	0.999761	Y = 1.95e+000 X + 2.48e-003	0.0024758571090624	1.95212720008384
107	113 (208)	0.999825	Y = 6.91e-001 X - 1.92e-003	-0.00192203891751294	0.690671901421383
108	114 (207)	0.999846	Y = 1.37e+000 X + 1.18e-003	0.00117519266680277	1.37211539344532
109	115 (194)	0.999373	Y = 1.58e+000 X + 2.27e-002	0.0226870531855243	1.58255135386253
110	116 (205)	0.999784	Y = 1.33e+000 X - 1.07e-004	-0.00010667304406344	1.32982953995217
111	117 (206)	0.999950	Y = 1.50e+000 X + 1.03e-004	0.000103175663838551	1.50426506694955
112	118 (209)	0.997201	Y = 1.88e+000 X + 2.90e-004	0.00028957861102924	1.8761886190844
113	I.S. (OCN)	1.000000	Y = 6.39e+003 X	0	6387.37859775111

# Standards Raw Data (GC-16)



Sample Name: CCCS0530C  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 5/30/2009 9:03:58 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGP\_LL1X\_050609  
LIMS File ID: GC16-691-12

Sample Name: CCCS0530C

1 of 1

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/30/2009 21:03:58  
 Lab Sample ID: CCCS0530C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-691-12

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 119 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.08	16.51
Di	12.30	15.43
Tri	17.89	19.51
Tetra	21.42	20.69
Penta	8.26	7.07
Hexa	8.00	6.28
Hepta	13.22	9.42
Octa	7.18	4.70
Nona	0.65	0.39
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.8171	37.5	30.4
A1242	23+24/31+28	6.0635	29.1	23.6
A1254SED	61/100	1.5010	7.20	
A1254BIO	69+75+82/149+153+138	6.3887		24.8
A1260	102/180	4.2400	20.3	16.5
A1268	115/194	1.2202	5.85	4.74

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 2.12

Total Cl / biphenyl Residue = 3.69

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/30/2009 21:03:58  
 Lab Sample ID: CCCS0530C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-691-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	1791	7.82	41.4			
3	12.83	188.7		-	-			
4	12.93	188.7	654	5.33	28.2			
5	13.54	223.1	1133	2.12	9.49			
6	14.41	223.1	2744	0.717	3.21			
7	14.72	223.1	2190	1.18	5.31			
8	14.91	223.1	9791	9.66	43.3			
9	15.48	223.1		-	-			
10	15.56	257.5	667	0.234	0.907			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.28	223.1	549	0.190	0.854			
14	16.42	249.0	9688	2.94	11.8			
15	16.51	257.5	4117	2.69	10.4			
16	16.80	257.5	1006	0.213	0.828			
17	17.06	257.5	7873	2.92	11.3			
19	17.52	267.9	101	0.0304	0.114			
20	17.70	257.5	124	0.0267	0.104			
21	17.83	257.5	2078	0.584	2.27			
22	17.91	257.5	1103	0.233	0.905			
23	18.11	257.5	13920	3.02	11.7			
24	18.16	257.5	15084	3.05	11.8			
25	18.51	259.5	11194	2.93	11.3			
26	18.75	258.7	7244	2.01	7.77			
27	18.97	292.0	2689	0.685	2.35			
28	19.12	257.5		-	-			
29	19.25	292.0	1049	0.304	1.04			
30	19.38	257.5		-	-			
31	19.55	292.0	12051	3.88	13.3			
32	19.72	292.0	9723	1.59	5.45			
33	19.83	292.0	3916	0.461	1.58			
34	19.90	292.0	3863	0.663	2.27			
35	20.04	292.0		-	-			
36	20.11	257.5	114	0.0435	0.169			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	14605	3.07	10.5			
38	20.42	272.4	8380	2.26	8.29			
39	20.77	292.0	16200	2.71	9.28			
41	20.93	326.4	145	0.0396	0.121			
42	21.03	292.0	3473	0.729	2.50			
43	21.28	298.9	159	0.0316	0.106			
44	21.46	298.9	554	0.0808	0.270			
45	21.61	292.0	824	0.123	0.422			
46	21.79	292.0	8935	0.982	3.36			
47	21.92	292.0	17166	2.35	8.04			
48	22.04	293.5	22415	4.66	15.9			
49	22.33	324.7	1845	0.349	1.08			
50	22.64	292.0	15111	2.10	7.18			
51	22.88	326.4	4057	1.51	4.62			
52	22.98	326.4	314	0.0582	0.178			
53	23.14	326.4	7859	1.29	3.96			
54	23.34	326.4	3707	0.398	1.22			
55	23.62	326.4	151	0.0103	0.0315			
56	23.71	326.4	585	0.106	0.326			
57	23.92	326.4	3218	0.412	1.26			
58	24.10	326.4	5671	0.845	2.59			
59	24.25	326.4	3068	0.383	1.17			
60	24.38	360.9	3123	0.461	1.28			
61	24.51	326.4	8994	1.50	4.60			
62	24.79	360.9		-	-			
63	24.88	326.4	2354	0.332	1.02			
64	25.17	360.9	7947	1.20	3.34			
65	25.31	350.5	2219	0.206	0.589			
66	25.37	360.9	1691	0.414	1.15			
67	25.44	336.8	563	0.0940	0.279			
68	25.52	326.4	153	0.0223	0.0683			
69	25.62	337.5	19868	2.67	7.91			
70	25.74	360.9		-	-			
71	26.03	347.8	1011	0.130	0.373			
72	26.26	336.8	237	0.0181	0.0537			
73	26.53	360.9	1988	0.259	0.719			
74	26.66	347.8	8540	0.867	2.49			
75	26.82	360.9	17898	1.96	5.43			
76	26.94	360.9		-	-			
77	27.36	360.9	6364	1.15	3.18			
78	27.43	395.3	6714	0.954	2.41			
79	27.65	360.9	116	0.0237	0.0657			
80	27.80	360.9	2413	0.175	0.484			
82	28.03	360.9	14881	1.76	4.87			
83	28.21	360.9	1352	0.154	0.426			
84	28.42	360.9	291	0.00758	0.0210			
85	28.77	395.3	3403	0.801	2.03			
87	29.07	395.3	593	0.117	0.297			
88	29.22	395.3	21074	2.56	6.48			
89	29.34	360.9	669	0.0567	0.157			
90	29.54	395.3	8688	1.11	2.81			
91	29.80	360.9	188	0.0186	0.0516			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.15	394.3	3706	0.338	0.857			
93	30.53	394.3	17631	2.22	5.64			
94	30.80	394.3	7705	1.11	2.82			
95	31.11	382.2	3779	0.518	1.36			
96	31.38	429.8	2563	0.0493	0.115			
98	31.56	395.3	305	0.0299	0.0756			
99	31.93	429.8	1889	0.274	0.638			
100	32.19	395.3	2534	0.386	0.975			
101	32.48	429.8	405	0.0636	0.148			
102	32.67	395.3	39225	4.24	10.7			
103	32.92	395.3	1778	0.256	0.649			
104	33.24	395.3	540	0.0794	0.201			
105	33.59	429.8	2355	0.307	0.714			
106	34.76	395.3	11892	0.845	2.14			
107	35.04	395.3	3284	0.292	0.739			
108	35.91	429.8	956	0.0957	0.223			
109	36.16	429.8	16135	3.02	7.02			
110	36.71	429.8	17873	3.05	7.09			
111	37.88	395.3	286	0.0247	0.0624			
112	39.47	429.8	5640	0.372	0.865			
113	40.02	464.2	1088	0.204	0.440			
114	40.98	464.2	636	0.0599	0.129			
115	42.40	429.8	15699	1.22	2.84			
116	43.33	429.8	757	0.0786	0.183			
117	48.56	464.2	5852	0.508	1.09			
118	54.73	498.6	8	0.000580	0.00116			

Total Concentration = 119 ng/mL

Total Nanomoles = 0.422

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.99 minutes

Internal Standard Peak Area = 159616.7

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/30/2009 21:03:58  
 Lab Sample ID: CCCS0530C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-691-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	6.587	9.817
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003	0.2752	4	4.492	6.694
5	13.54	2:2	004 010	0.2881	2-2; 26	1.785	2.250
6	14.41	2:1	007 009	0.3067	24; 25	0.604	0.761
7	14.72	2:1	006	0.3133	2-3	0.998	1.259
8	14.91	2:1	005 008	0.3173	23; 2-4	8.141	10.261
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019	0.3311	26-2	0.197	0.215
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.28	2:0	012 013	0.3465	34; 3-4	0.160	0.202
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	2.474	2.794
15	16.51	3:2	017	0.3514	24-2	2.263	2.471
16	16.80	3:2	024 027	0.3575	236; 26-3	0.180	0.196
17	17.06	3:2	016 032	0.3631	23-2; 26-4	2.459	2.685
19	17.52	3:1 4:4	023 034 054	0.3728	235; 35-2; 26-26	0.026	0.027
20	17.70	3:1	029	0.3767	245	0.022	0.025
21	17.83	3:1	026	0.3794	25-3	0.492	0.537
22	17.91	3:1	025	0.3811	24-3	0.196	0.214
23	18.11	3:1	031	0.3854	25-4	2.542	2.776
24	18.16	3:1 4:3	028 050	0.3865	24-4; 246-2	2.567	2.804
25	18.51	3:1 4:3	020 021 033 053	0.3939	23-3; 234; 34-2; 25-26	2.472	2.679
26	18.75	3:1 4:3	022 051	0.3990	23-4; 24-26	1.693	1.841
27	18.97	4:3	045	0.4037	236-2	0.577	0.556
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4097	23-26	0.256	0.247
30	19.38	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.274	3.153
32	19.72	4:2	043 049	0.4197	235-2; 24-25	1.342	1.292
33	19.83	4:2	038 047	0.4220	345; 24-24	0.389	0.374
34	19.90	4:2	048 075	0.4235	245-2; 246-4	0.558	0.538
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.11	3:0	035	0.4280	34-3	0.037	0.040
37	20.29	5:4 4:2	104 044	0.4318	246-26; 23-25	2.587	2.492
38	20.42	3:0 4:2	037 042 059	0.4346	34-4; 23-24; 236-3	1.903	1.964
39	20.77	4:2	041 064 071 072	0.4420	234-2; 236-4; 26-34; 25-35	2.284	2.199

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096	0.4454	24-35; 236-26	0.033	0.029
42	21.03	4:2	040	0.4475	23-23	0.614	0.592
43	21.28	4:1 5:3	057 103	0.4529	235-3; 246-25	0.027	0.025
44	21.46	4:1 5:3	058 067 100	0.4567	23-35; 245-3; 246-24	0.068	0.064
45	21.61	4:1	063	0.4599	235-4	0.104	0.100
46	21.79	4:1 5:3	074 094 061	0.4637	245-4; 235-26; 2345	0.827	0.797
47	21.92	4:1	070	0.4665	25-34	1.979	1.906
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088	0.4690	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.923	3.759
49	22.33	4:1 5:3	055 091 121	0.4752	234-3; 236-24; 246-35	0.294	0.255
50	22.64	4:1	056 060	0.4818	23-34; 234-4	1.768	1.702
51	22.88	5:3 6:4	084 092 155	0.4869	236-23; 235-25; 246-246	1.270	1.094
52	22.98	5:3	089	0.4890	234-26	0.049	0.042
53	23.14	5:2	090 101	0.4924	235-24; 245-25	1.089	0.938
54	23.34	5:2	079 099 113	0.4967	34-35; 245-24; 236-35	0.336	0.289
55	23.62	5:2 6:4	119 150	0.5027	246-34; 236-246	0.009	0.007
56	23.71	5:2	078 083 112 108	0.5046	345-3; 235-23; 2356-3; 2346-3	0.090	0.077
57	23.92	5:2 6:4	097 152 086	0.5090	245-23; 2356-26; 2345-2	0.347	0.299
58	24.10	5:2	081 087 117 125 115 145	0.5129	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.712	0.613
59	24.25	5:2	116 085 111	0.5161	23456; 234-24; 235-35	0.322	0.278
60	24.38	6:4	120 136	0.5188	245-35; 236-236	0.389	0.303
61	24.51	5:2	077 110 148	0.5216	34-34; 236-34; 235-246	1.265	1.090
62	24.79	6:3	154		245-246	-	-
63	24.88	5:2	082	0.5295	234-23	0.280	0.241
64	25.17	6:3	151	0.5356	2356-25	1.015	0.791
65	25.31	5:1 6:3	124 135	0.5386	345-25; 235-236	0.174	0.139
66	25.37	6:3	144	0.5399	2346-25	0.349	0.272
67	25.44	5:1 6:3	107 109 147	0.5414	234-35; 235-34; 2356-24	0.079	0.066
68	25.52	5:1	123	0.5431	345-24	0.019	0.016
69	25.62	5:1 6:3	106 118 139 149	0.5452	2345-3; 245-34; 2346-24; 236-245	2.249	1.874
70	25.74	6:3	140		234-246	-	-
71	26.03	5:1 6:3	114 134 143	0.5539	2345-4; 2356-23; 2345-26	0.109	0.088
72	26.26	5:1 6:3	122 131 133 142	0.5588	345-23; 2346-23; 235-235; 23456-2	0.015	0.013
73	26.53	6:2	146 165 188	0.5646	235-245; 2356-35; 2356-246	0.219	0.170
74	26.66	5:1 6:3	105 132 161	0.5674	234-34; 234-236; 2346-35	0.731	0.591
75	26.82	6:2	153	0.5708	245-245	1.652	1.287
76	26.94	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.36	6:2	141	0.5823	2345-25	0.967	0.753
78	27.43	7:4	179	0.5837	2356-236	0.804	0.572
79	27.65	6:2	137	0.5884	2345-24	0.020	0.016
80	27.80	6:2 7:4	130 176	0.5916	234-235; 2346-236	0.147	0.115
82	28.03	6:2	138 163 164	0.5965	234-245; 2356-34; 236-345	1.483	1.155
83	28.21	6:2	158 160 186	0.6003	2346-34; 23456-3; 23456-26	0.129	0.101
84	28.42	6:2	126 129	0.6048	345-34; 2345-23	0.006	0.005
85	28.77	7:3	166 178	0.6123	23456-4; 2356-235	0.675	0.480
87	29.07	7:3	175 159	0.6186	2346-235; 2345-35	0.099	0.070
88	29.22	7:3	182 187	0.6218	2345-246; 2356-245	2.157	1.535
89	29.34	6:2	128 162	0.6244	234-234; 235-345	0.048	0.037
90	29.54	7:3	183	0.6286	2346-245	0.935	0.665
91	29.80	6:1	167	0.6342	245-345	0.016	0.012
92	30.15	7:3	185	0.6416	23456-25	0.285	0.203
93	30.53	7:3	174 181	0.6497	2345-236; 23456-24	1.872	1.335
94	30.80	7:3	177	0.6555	2356-234	0.936	0.668
95	31.11	6:1 7:3	156 171	0.6621	2345-34; 2346-234	0.437	0.321
96	31.38	8:4	157 202	0.6678	234-345; 2356-2356	0.042	0.027
98	31.56	7:3	173	0.6716	23456-23	0.025	0.018
99	31.93	8:4	201	0.6795	2346-2356	0.231	0.151
100	32.19	7:2	172 204	0.6850	2345-235; 23456-246	0.325	0.231
101	32.48	8:4	192 197	0.6912	23456-35; 2346-2346	0.054	0.035
102	32.67	7:2	180	0.6953	2345-245	3.573	2.542
103	32.92	7:2	193	0.7006	2356-345	0.216	0.154
104	33.24	7:2	191	0.7074	2346-345	0.067	0.048
105	33.59	8:4	200 169	0.7148	23456-236; 345-345	0.259	0.169
106	34.76	7:2	170	0.7397	2345-234	0.712	0.506

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>	0.7457	23456-34	0.246	0.175
108	35.91	8:3	<b>198</b>	0.7642	23456-235	0.081	0.053
109	36.16	8:3	<b>199</b>	0.7695	2345-2356	2.542	1.663
110	36.71	8:3	<b>196 203</b>	0.7812	2345-2346; 23456-245	2.569	1.681
111	37.88	7:1	<b>189</b>	0.8061	2345-345	0.021	0.015
112	39.47	8:3	<b>195</b>	0.8400	23456-234	0.313	0.205
113	40.02	9:4	<b>208</b>	0.8517	23456-2356	0.172	0.104
114	40.98	9:4	<b>207</b>	0.8721	23456-2346	0.050	0.031
115	42.40	8:2	<b>194</b>	0.9023	2345-2345	1.028	0.673
116	43.33	8:2	<b>205</b>	0.9221	23456-345	0.066	0.043
117	48.56	9:3	<b>206</b>	1.033	23456-2345	0.428	0.259
118	54.73	10:4	<b>209</b>	1.165	23456-23456	0.000	0.000

Concentration = 119 ng/mL

Total Nanomoles = 0.422

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

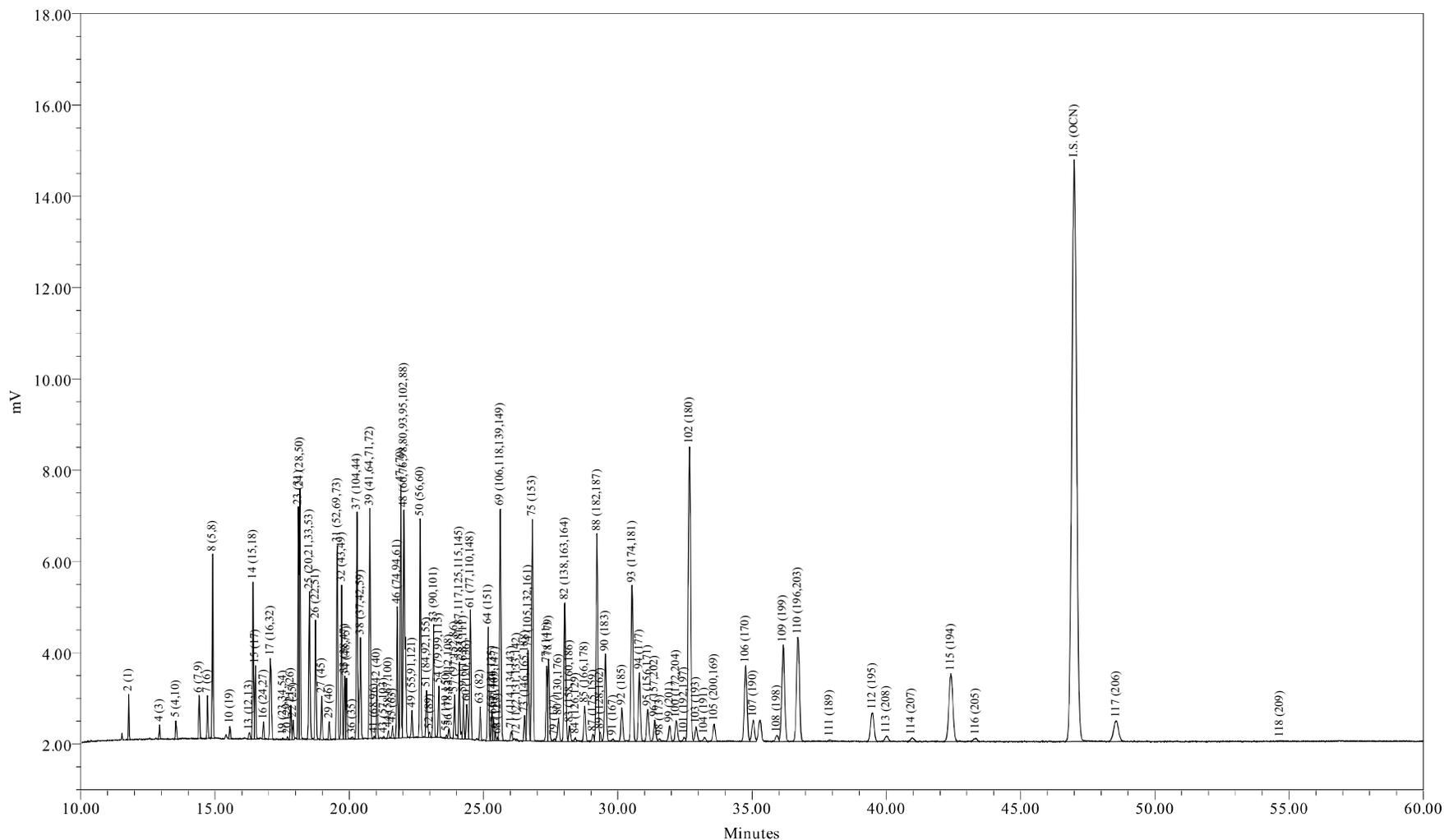
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Sample Name: CCCS0530D  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 5/31/2009 3:47:46 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_050609  
LIMS File ID:

Sample Name: CCCS0530D

1 of 1

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 03:47:46  
 Lab Sample ID: CCCS0530D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-691-18

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 117 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.60	15.86
Di	12.29	15.47
Tri	17.90	19.61
Tetra	21.34	20.70
Penta	8.24	7.08
Hexa	8.09	6.38
Hepta	13.58	9.71
Octa	7.28	4.78
Nona	0.67	0.41
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.4795	36.8	29.7
A1242	23+24/31+28	5.9733	29.4	23.7
A1254SED	61/100	1.4581	7.17	
A1254BIO	69+75+82/149+153+138	6.3086		25.0
A1260	102/180	4.2142	20.7	16.7
A1268	115/194	1.2234	6.01	4.85

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.14

Total Cl / biphenyl Residue = 3.72

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 03:47:46  
 Lab Sample ID: CCCS0530D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-691-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	1710	7.48	39.6			
3	12.83	188.7		-	-			
4	12.93	188.7	597	4.88	25.9			
5	13.54	223.1	1144	2.14	9.60			
6	14.41	223.1	2710	0.709	3.18			
7	14.72	223.1	2144	1.16	5.21			
8	14.91	223.1	9529	9.42	42.2			
9	15.48	223.1		-	-			
10	15.55	257.5	663	0.233	0.904			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.28	223.1	513	0.178	0.799			
14	16.42	249.0	9518	2.89	11.6			
15	16.50	257.5	3995	2.61	10.1			
16	16.80	257.5	959	0.204	0.791			
17	17.06	257.5	7637	2.84	11.0			
19	17.53	267.9	66	0.0200	0.0746			
20	17.70	257.5	146	0.0317	0.123			
21	17.83	257.5	2043	0.575	2.23			
22	17.91	257.5	1151	0.244	0.946			
23	18.11	257.5	13375	2.90	11.3			
24	18.16	257.5	15155	3.07	11.9			
25	18.51	259.5	10970	2.88	11.1			
26	18.75	258.7	7199	2.00	7.74			
27	18.98	292.0	2739	0.700	2.40			
28	19.12	257.5		-	-			
29	19.25	292.0	1097	0.319	1.09			
30	19.38	257.5		-	-			
31	19.55	292.0	11907	3.85	13.2			
32	19.72	292.0	9663	1.59	5.43			
33	19.83	292.0	3920	0.463	1.59			
34	19.90	292.0	3828	0.658	2.25			
35	20.04	292.0		-	-			
36	20.12	257.5	215	0.0819	0.318			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	14300	3.01	10.3			
38	20.42	272.4	8121	2.19	8.05			
39	20.77	292.0	15793	2.65	9.07			
41	20.93	326.4	137	0.0375	0.115			
42	21.03	292.0	3392	0.714	2.45			
43	21.28	298.9	103	0.0205	0.0687			
44	21.46	298.9	515	0.0754	0.252			
45	21.61	292.0	802	0.120	0.412			
46	21.79	292.0	8561	0.943	3.23			
47	21.92	292.0	16566	2.27	7.78			
48	22.03	293.5	21644	4.50	15.3			
49	22.34	324.7	1879	0.357	1.10			
50	22.64	292.0	14663	2.04	6.99			
51	22.88	326.4	3976	1.48	4.54			
52	22.99	326.4	354	0.0658	0.202			
53	23.14	326.4	7562	1.25	3.82			
54	23.34	326.4	3481	0.375	1.15			
55	23.62	326.4	213	0.0146	0.0446			
56	23.71	326.4	700	0.128	0.392			
57	23.92	326.4	3213	0.413	1.26			
58	24.10	326.4	5561	0.830	2.54			
59	24.25	326.4	2965	0.371	1.14			
60	24.37	360.9	2990	0.442	1.23			
61	24.51	326.4	8717	1.46	4.47			
62	24.79	360.9		-	-			
63	24.88	326.4	2319	0.328	1.00			
64	25.17	360.9	7757	1.18	3.26			
65	25.31	350.5	2156	0.201	0.573			
66	25.37	360.9	1650	0.405	1.12			
67	25.44	336.8	530	0.0885	0.263			
68	25.53	326.4	173	0.0253	0.0775			
69	25.62	337.5	19442	2.62	7.76			
70	25.74	360.9		-	-			
71	26.03	347.8	860	0.111	0.318			
72	26.23	336.8	180	0.0137	0.0406			
73	26.53	360.9	1929	0.252	0.699			
74	26.66	347.8	8315	0.846	2.43			
75	26.82	360.9	17674	1.94	5.38			
76	26.94	360.9		-	-			
77	27.35	360.9	6374	1.15	3.19			
78	27.43	395.3	6984	0.995	2.52			
79	27.64	360.9	263	0.0549	0.152			
80	27.79	360.9	2425	0.176	0.487			
82	28.03	360.9	14774	1.75	4.85			
83	28.21	360.9	1532	0.175	0.484			
84	28.42	360.9	376	0.00986	0.0273			
85	28.77	395.3	3620	0.854	2.16			
87	29.08	395.3	779	0.156	0.394			
88	29.22	395.3	20878	2.54	6.43			
89	29.35	360.9	817	0.0694	0.192			
90	29.54	395.3	8862	1.14	2.87			
91	29.82	360.9	288	0.0290	0.0804			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.15	394.3	3674	0.336	0.852			
93	30.53	394.3	17397	2.20	5.57			
94	30.80	394.3	7853	1.14	2.88			
95	31.11	382.2	3856	0.530	1.39			
96	31.37	429.8	2562	0.0494	0.115			
98	31.55	395.3	301	0.0296	0.0749			
99	31.93	429.8	1958	0.285	0.663			
100	32.18	395.3	2617	0.399	1.01			
101	32.47	429.8	503	0.0795	0.185			
102	32.67	395.3	38893	4.21	10.7			
103	32.92	395.3	1977	0.286	0.723			
104	33.22	395.3	545	0.0804	0.203			
105	33.59	429.8	2360	0.308	0.717			
106	34.76	395.3	11715	0.834	2.11			
107	35.04	395.3	3308	0.295	0.746			
108	35.92	429.8	989	0.0993	0.231			
109	36.16	429.8	16010	3.00	6.98			
110	36.70	429.8	17511	2.99	6.97			
111	37.89	395.3	258	0.0223	0.0565			
112	39.49	429.8	5675	0.375	0.872			
113	40.01	464.2	1028	0.194	0.417			
114	40.94	464.2	798	0.0754	0.162			
115	42.40	429.8	15702	1.22	2.85			
116	43.33	429.8	738	0.0769	0.179			
117	48.56	464.2	5948	0.518	1.11			
118	54.75	498.6	37	0.00280	0.00562			

Total Concentration = 117 ng/mL

Total Nanomoles = 0.413

Average Molecular Weight = 282.3

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 159227.3

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 03:47:46  
 Lab Sample ID: CCCS0530D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-691-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	6.412	9.594
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003	0.2751	4	4.187	6.264
5	13.54	2:2	004 010	0.2881	2-2; 26	1.837	2.324
6	14.41	2:1	007 009	0.3066	24; 25	0.608	0.770
7	14.72	2:1	006	0.3132	2-3	0.997	1.262
8	14.91	2:1	005 008	0.3172	23; 2-4	8.078	10.223
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	0.200	0.219
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.28	2:0	012 013	0.3464	34; 3-4	0.153	0.193
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	2.479	2.811
15	16.50	3:2	017	0.3511	24-2	2.239	2.455
16	16.80	3:2	024 027	0.3574	236; 26-3	0.175	0.192
17	17.06	3:2	016 032	0.3630	23-2; 26-4	2.433	2.667
19	17.53	3:1 4:4	023 034 054	0.3730	235; 35-2; 26-26	0.017	0.018
20	17.70	3:1	029	0.3766	245	0.027	0.030
21	17.83	3:1	026	0.3794	25-3	0.493	0.541
22	17.91	3:1	025	0.3811	24-3	0.209	0.229
23	18.11	3:1	031	0.3853	25-4	2.490	2.730
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	2.631	2.885
25	18.51	3:1 4:3	020 021 033 053	0.3938	23-3; 234; 34-2; 25-26	2.470	2.688
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	1.716	1.873
27	18.98	4:3	045	0.4038	236-2	0.600	0.580
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4096	23-26	0.274	0.265
30	19.38	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.298	3.189
32	19.72	4:2	043 049	0.4196	235-2; 24-25	1.360	1.315
33	19.83	4:2	038 047	0.4219	345; 24-24	0.397	0.384
34	19.90	4:2	048 075	0.4234	245-2; 246-4	0.564	0.546
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.12	3:0	035	0.4281	34-3	0.070	0.077
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	2.583	2.498
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.880	1.949
39	20.77	4:2	041 064 071 072	0.4419	234-2; 236-4; 26-34; 25-35	2.270	2.195

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096	0.4453	24-35; 236-26	0.032	0.028
42	21.03	4:2	040	0.4474	23-23	0.612	0.592
43	21.28	4:1 5:3	057 103	0.4528	235-3; 246-25	0.018	0.017
44	21.46	4:1 5:3	058 067 100	0.4566	23-35; 245-3; 246-24	0.065	0.061
45	21.61	4:1	063	0.4598	235-4	0.103	0.100
46	21.79	4:1 5:3	074 094 061	0.4636	245-4; 235-26; 2345	0.808	0.781
47	21.92	4:1	070	0.4664	25-34	1.947	1.882
48	22.03	4:1 5:3	066 076 098 080 093 095 102 088	0.4687	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.862	3.715
49	22.34	4:1 5:3	055 091 121	0.4753	234-3; 236-24; 246-35	0.306	0.266
50	22.64	4:1	056 060	0.4817	23-34; 234-4	1.749	1.691
51	22.88	5:3 6:4	084 092 155	0.4868	236-23; 235-25; 246-246	1.269	1.098
52	22.99	5:3	089	0.4891	234-26	0.056	0.049
53	23.14	5:2	090 101	0.4923	235-24; 245-25	1.068	0.924
54	23.34	5:2	079 099 113	0.4966	34-35; 245-24; 236-35	0.321	0.278
55	23.62	5:2 6:4	119 150	0.5026	246-34; 236-246	0.012	0.011
56	23.71	5:2	078 083 112 108	0.5045	345-3; 235-23; 2356-3; 2346-3	0.110	0.095
57	23.92	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	0.354	0.306
58	24.10	5:2	081 087 117 125 115 145	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.712	0.616
59	24.25	5:2	116 085 111	0.5160	23456; 234-24; 235-35	0.318	0.275
60	24.37	6:4	120 136	0.5185	245-35; 236-236	0.379	0.297
61	24.51	5:2	077 110 148	0.5215	34-34; 236-34; 235-246	1.250	1.081
62	24.79	6:3	154		245-246	-	-
63	24.88	5:2	082	0.5294	234-23	0.281	0.243
64	25.17	6:3	151	0.5355	2356-25	1.010	0.790
65	25.31	5:1 6:3	124 135	0.5385	345-25; 235-236	0.172	0.139
66	25.37	6:3	144	0.5398	2346-25	0.347	0.272
67	25.44	5:1 6:3	107 109 147	0.5413	234-35; 235-34; 2356-24	0.076	0.064
68	25.53	5:1	123	0.5432	345-24	0.022	0.019
69	25.62	5:1 6:3	106 118 139 149	0.5451	2345-3; 245-34; 2346-24; 236-245	2.244	1.878
70	25.74	6:3	140		234-246	-	-
71	26.03	5:1 6:3	114 134 143	0.5538	2345-4; 2356-23; 2345-26	0.095	0.077
72	26.23	5:1 6:3	122 131 133 142	0.5581	345-23; 2346-23; 235-235; 23456-2	0.012	0.010
73	26.53	6:2	146 165 188	0.5645	235-245; 2356-35; 2356-246	0.216	0.169
74	26.66	5:1 6:3	105 132 161	0.5672	234-34; 234-236; 2346-35	0.726	0.589
75	26.82	6:2	153	0.5706	245-245	1.663	1.301
76	26.94	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141	0.5819	2345-25	0.988	0.773
78	27.43	7:4	179	0.5836	2356-236	0.853	0.609
79	27.64	6:2	137	0.5881	2345-24	0.047	0.037
80	27.79	6:2 7:4	130 176	0.5913	234-235; 2346-236	0.151	0.118
82	28.03	6:2	138 163 164	0.5964	234-245; 2356-34; 236-345	1.501	1.174
83	28.21	6:2	158 160 186	0.6002	2346-34; 23456-3; 23456-26	0.150	0.117
84	28.42	6:2	126 129	0.6047	345-34; 2345-23	0.008	0.007
85	28.77	7:3	166 178	0.6121	23456-4; 2356-235	0.732	0.523
87	29.08	7:3	175 159	0.6187	2346-235; 2345-35	0.134	0.095
88	29.22	7:3	182 187	0.6217	2345-246; 2356-245	2.179	1.557
89	29.35	6:2	128 162	0.6245	234-234; 235-345	0.060	0.047
90	29.54	7:3	183	0.6285	2346-245	0.973	0.695
91	29.82	6:1	167	0.6345	245-345	0.025	0.019
92	30.15	7:3	185	0.6415	23456-25	0.288	0.206
93	30.53	7:3	174 181	0.6496	2345-236; 23456-24	1.884	1.349
94	30.80	7:3	177	0.6553	2356-234	0.974	0.697
95	31.11	6:1 7:3	156 171	0.6619	2345-34; 2346-234	0.455	0.336
96	31.37	8:4	157 202	0.6674	234-345; 2356-2356	0.042	0.028
98	31.55	7:3	173	0.6713	23456-23	0.025	0.018
99	31.93	8:4	201	0.6794	2346-2356	0.244	0.160
100	32.18	7:2	172 204	0.6847	2345-235; 23456-246	0.342	0.244
101	32.47	8:4	192 197	0.6909	23456-35; 2346-2346	0.068	0.045
102	32.67	7:2	180	0.6951	2345-245	3.613	2.580
103	32.92	7:2	193	0.7004	2356-345	0.245	0.175
104	33.22	7:2	191	0.7068	2346-345	0.069	0.049
105	33.59	8:4	200 169	0.7147	23456-236; 345-345	0.264	0.174
106	34.76	7:2	170	0.7396	2345-234	0.715	0.511

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>	0.7455	23456-34	0.253	0.181
108	35.92	8:3	<b>198</b>	0.7643	23456-235	0.085	0.056
109	36.16	8:3	<b>199</b>	0.7694	2345-2356	2.572	1.690
110	36.70	8:3	<b>196 203</b>	0.7809	2345-2346; 23456-245	2.567	1.686
111	37.89	7:1	<b>189</b>	0.8062	2345-345	0.019	0.014
112	39.49	8:3	<b>195</b>	0.8402	23456-234	0.321	0.211
113	40.01	9:4	<b>208</b>	0.8513	23456-2356	0.166	0.101
114	40.94	9:4	<b>207</b>	0.8711	23456-2346	0.065	0.039
115	42.40	8:2	<b>194</b>	0.9021	2345-2345	1.049	0.689
116	43.33	8:2	<b>205</b>	0.9219	23456-345	0.066	0.043
117	48.56	9:3	<b>206</b>	1.033	23456-2345	0.444	0.270
118	54.75	10:4	<b>209</b>	1.165	23456-23456	0.002	0.001

Concentration = 117 ng/mL

Total Nanomoles = 0.413

Average Molecular Weight = 282.3

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Sample Name: CCCS0530C Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 05/30/2009 21:03:58 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 05/30/2009 22:24:42  
Sample Set Name: GC16\_053009d User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_050609 Current Time: 13:16:19  
Run Time: 60 Minutes Current Date: 6/5/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-691-12

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	1791	7.817	7.817
2	4 (3)	12.93	654	5.330	5.330
3	5 (4,10)	13.54	1133	2.118	2.118
4	6 (7,9)	14.41	2744	0.717	0.717
5	7 (6)	14.72	2190	1.185	1.185
6	8 (5,8)	14.91	9791	9.661	9.661
7	10 (19)	15.56	667	0.234	0.234
8	13 (12,13)	16.28	549	0.190	0.190
9	14 (15,18)	16.42	9688	2.936	2.936
10	15 (17)	16.51	4117	2.685	2.685
11	16 (24,27)	16.80	1006	0.213	0.213
12	17 (16,32)	17.06	7873	2.918	2.918
13	19 (23,34,54)	17.52	101	0.030	0.030
14	20 (29)	17.70	124	0.027	0.027
15	21 (26)	17.83	2078	0.584	0.584
16	22 (25)	17.91	1103	0.233	0.233
17	23 (31)	18.11	13920	3.017	3.017
18	24 (28,50)	18.16	15084	3.047	3.047
19	25 (20,21,33,53)	18.51	11194	2.934	2.934
20	26 (22,51)	18.75	7244	2.009	2.009
21	27 (45)	18.97	2689	0.685	0.685
22	29 (46)	19.25	1049	0.304	0.304
23	31 (52,69,73)	19.55	12051	3.885	3.885
24	32 (43,49)	19.72	9723	1.592	1.592
25	33 (38,47)	19.83	3916	0.461	0.461
26	34 (48,75)	19.90	3863	0.663	0.663
27	36 (35)	20.11	114	0.044	0.044
28	37 (104,44)	20.29	14605	3.070	3.070
29	38 (37,42,59)	20.42	8380	2.258	2.258
30	39 (41,64,71,72)	20.77	16200	2.710	2.710
31	41 (68,96)	20.93	145	0.040	0.040
32	42 (40)	21.03	3473	0.729	0.729
33	43 (57,103)	21.28	159	0.032	0.032

34	44 (58,67,100)	21.46	554	0.081	0.081
35	45 (63)	21.61	824	0.123	0.123
36	46 (74,94,61)	21.79	8935	0.982	0.982
37	47 (70)	21.92	17166	2.348	2.348
38	48 (66,76,98,80,93,95,	22.04	22415	4.656	4.656
39	49 (55,91,121)	22.33	1845	0.349	0.349
40	50 (56,60)	22.64	15111	2.098	2.098
41	51 (84,92,155)	22.88	4057	1.507	1.507
42	52 (89)	22.98	314	0.058	0.058
43	53 (90,101)	23.14	7859	1.292	1.292
44	54 (79,99,113)	23.34	3707	0.398	0.398
45	55 (119,150)	23.62	151	0.010	0.010
46	56 (78,83,112,108)	23.71	585	0.106	0.106
47	57 (97,152,86)	23.92	3218	0.412	0.412
48	58 (81,87,117,125,115	24.10	5671	0.845	0.845
49	59 (116,85,111)	24.25	3068	0.383	0.383
50	60 (120,136)	24.38	3123	0.461	0.461
51	61 (77,110,148)	24.51	8994	1.501	1.501
52	63 (82)	24.88	2354	0.332	0.332
53	64 (151)	25.17	7947	1.204	1.204
54	65 (124,135)	25.31	2219	0.206	0.206
55	66 (144)	25.37	1691	0.414	0.414
56	67 (107,109,147)	25.44	563	0.094	0.094
57	68 (123)	25.52	153	0.022	0.022
58	69 (106,118,139,149)	25.62	19868	2.669	2.669
59	71 (114,134,143)	26.03	1011	0.130	0.130
60	72 (122,131,133,142)	26.26	237	0.018	0.018
61	73 (146,165,188)	26.53	1988	0.259	0.259
62	74 (105,132,161)	26.66	8540	0.867	0.867
63	75 (153)	26.82	17898	1.960	1.960
64	77 (141)	27.36	6364	1.147	1.147
65	78 (179)	27.43	6714	0.954	0.954
66	79 (137)	27.65	116	0.024	0.024
67	80 (130,176)	27.80	2413	0.175	0.175
68	82 (138,163,164)	28.03	14881	1.759	1.759
69	83 (158,160,186)	28.21	1352	0.154	0.154
70	84 (126,129)	28.42	291	0.008	0.008
71	85 (166,178)	28.77	3403	0.801	0.801
72	87 (175,159)	29.07	593	0.117	0.117
73	88 (182,187)	29.22	21074	2.560	2.560
74	89 (128,162)	29.34	669	0.057	0.057
75	90 (183)	29.54	8688	1.110	1.110
76	91 (167)	29.80	188	0.019	0.019
77	92 (185)	30.15	3706	0.338	0.338
78	93 (174,181)	30.53	17631	2.222	2.222
79	94 (177)	30.80	7705	1.111	1.111
80	95 (156,171)	31.11	3779	0.518	0.518
81	96 (157,202)	31.38	2563	0.049	0.049
82	98 (173)	31.56	305	0.030	0.030
83	99 (201)	31.93	1889	0.274	0.274
84	100 (172,204)	32.19	2534	0.386	0.386

85	101 (192,197)	32.48	405	0.064	0.064
86	102 (180)	32.67	39225	4.240	4.240
87	103 (193)	32.92	1778	0.256	0.256
88	104 (191)	33.24	540	0.079	0.079
89	105 (200,169)	33.59	2355	0.307	0.307
90	106 (170)	34.76	11892	0.845	0.845
91	107 (190)	35.04	3284	0.292	0.292
92	108 (198)	35.91	956	0.096	0.096
93	109 (199)	36.16	16135	3.017	3.017
94	110 (196,203)	36.71	17873	3.049	3.049
95	111 (189)	37.88	286	0.025	0.025
96	112 (195)	39.47	5640	0.372	0.372
97	113 (208)	40.02	1088	0.204	0.204
98	114 (207)	40.98	636	0.060	0.060
99	115 (194)	42.40	15699	1.220	1.220
100	116 (205)	43.33	757	0.079	0.079
101	117 (206)	48.56	5852	0.508	0.508
102	118 (209)	54.73	8	0.001	0.001
103	Sum			118.669	118.669



Sample Name: CCCS0530D Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 05/31/2009 03:47:46 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 06/01/2009 16:01:18  
Sample Set Name: GC16\_053009d User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_050609 Current Time: 13:16:20  
Run Time: 60 Minutes Current Date: 6/5/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-691-18

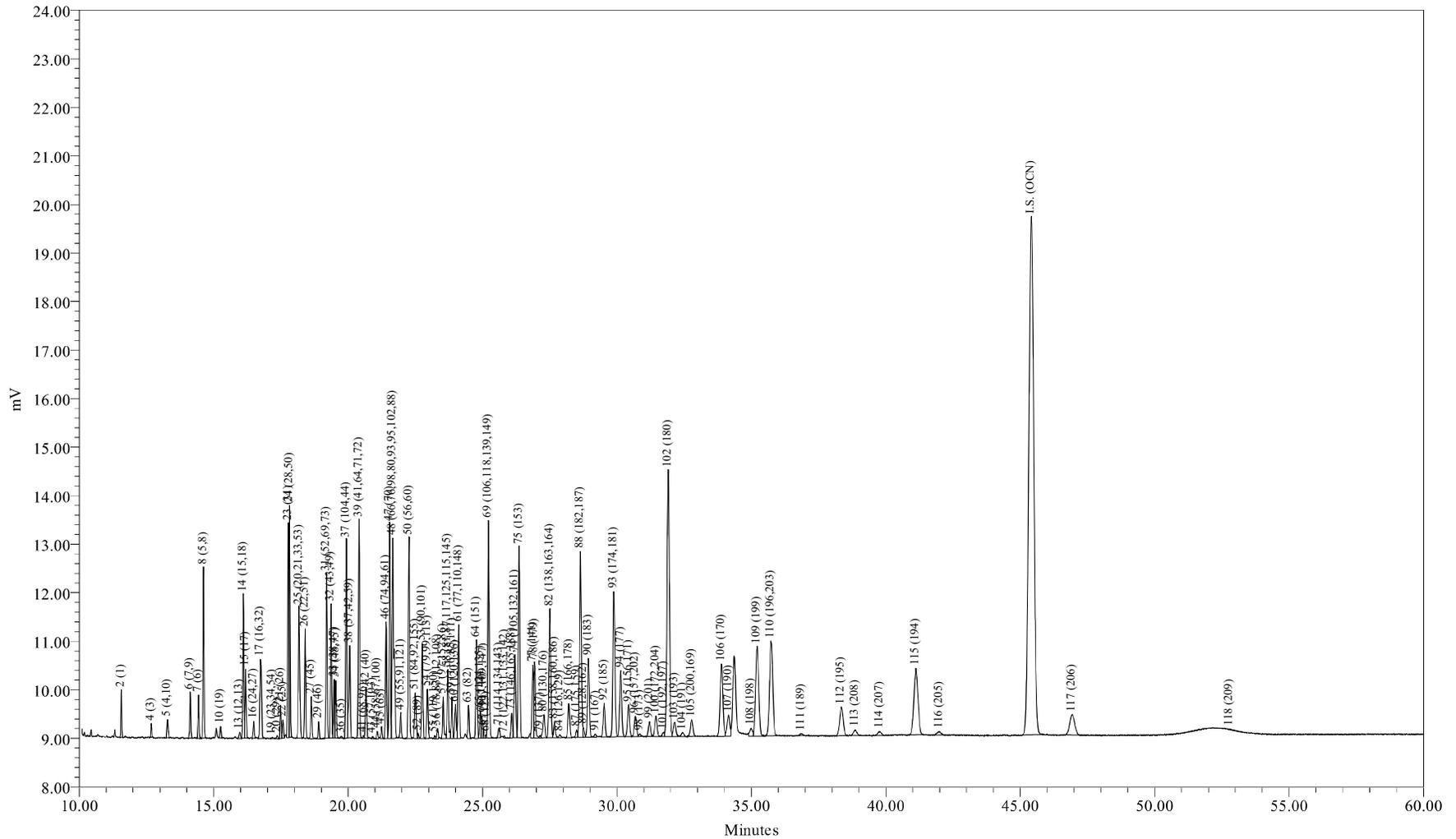
Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	1710	7.480	7.480
2	4 (3)	12.93	597	4.884	4.884
3	5 (4,10)	13.54	1144	2.142	2.142
4	6 (7,9)	14.41	2710	0.709	0.709
5	7 (6)	14.72	2144	1.163	1.163
6	8 (5,8)	14.91	9529	9.423	9.423
7	10 (19)	15.55	663	0.233	0.233
8	13 (12,13)	16.28	513	0.178	0.178
9	14 (15,18)	16.42	9518	2.891	2.891
10	15 (17)	16.50	3995	2.612	2.612
11	16 (24,27)	16.80	959	0.204	0.204
12	17 (16,32)	17.06	7637	2.837	2.837
13	19 (23,34,54)	17.53	66	0.020	0.020
14	20 (29)	17.70	146	0.032	0.032
15	21 (26)	17.83	2043	0.575	0.575
16	22 (25)	17.91	1151	0.244	0.244
17	23 (31)	18.11	13375	2.904	2.904
18	24 (28,50)	18.16	15155	3.069	3.069
19	25 (20,21,33,53)	18.51	10970	2.882	2.882
20	26 (22,51)	18.75	7199	2.002	2.002
21	27 (45)	18.98	2739	0.700	0.700
22	29 (46)	19.25	1097	0.319	0.319
23	31 (52,69,73)	19.55	11907	3.847	3.847
24	32 (43,49)	19.72	9663	1.586	1.586
25	33 (38,47)	19.83	3920	0.463	0.463
26	34 (48,75)	19.90	3828	0.658	0.658
27	36 (35)	20.12	215	0.082	0.082
28	37 (104,44)	20.29	14300	3.013	3.013
29	38 (37,42,59)	20.42	8121	2.193	2.193
30	39 (41,64,71,72)	20.77	15793	2.648	2.648
31	41 (68,96)	20.93	137	0.037	0.037
32	42 (40)	21.03	3392	0.714	0.714
33	43 (57,103)	21.28	103	0.021	0.021

34	44 (58,67,100)	21.46	515	0.075	0.075
35	45 (63)	21.61	802	0.120	0.120
36	46 (74,94,61)	21.79	8561	0.943	0.943
37	47 (70)	21.92	16566	2.271	2.271
38	48 (66,76,98,80,93,95,	22.03	21644	4.505	4.505
39	49 (55,91,121)	22.34	1879	0.357	0.357
40	50 (56,60)	22.64	14663	2.040	2.040
41	51 (84,92,155)	22.88	3976	1.481	1.481
42	52 (89)	22.99	354	0.066	0.066
43	53 (90,101)	23.14	7562	1.246	1.246
44	54 (79,99,113)	23.34	3481	0.375	0.375
45	55 (119,150)	23.62	213	0.015	0.015
46	56 (78,83,112,108)	23.71	700	0.128	0.128
47	57 (97,152,86)	23.92	3213	0.413	0.413
48	58 (81,87,117,125,115	24.10	5561	0.830	0.830
49	59 (116,85,111)	24.25	2965	0.371	0.371
50	60 (120,136)	24.37	2990	0.442	0.442
51	61 (77,110,148)	24.51	8717	1.458	1.458
52	63 (82)	24.88	2319	0.328	0.328
53	64 (151)	25.17	7757	1.178	1.178
54	65 (124,135)	25.31	2156	0.201	0.201
55	66 (144)	25.37	1650	0.405	0.405
56	67 (107,109,147)	25.44	530	0.089	0.089
57	68 (123)	25.53	173	0.025	0.025
58	69 (106,118,139,149)	25.62	19442	2.618	2.618
59	71 (114,134,143)	26.03	860	0.111	0.111
60	72 (122,131,133,142)	26.23	180	0.014	0.014
61	73 (146,165,188)	26.53	1929	0.252	0.252
62	74 (105,132,161)	26.66	8315	0.846	0.846
63	75 (153)	26.82	17674	1.940	1.940
64	77 (141)	27.35	6374	1.152	1.152
65	78 (179)	27.43	6984	0.995	0.995
66	79 (137)	27.64	263	0.055	0.055
67	80 (130,176)	27.79	2425	0.176	0.176
68	82 (138,163,164)	28.03	14774	1.751	1.751
69	83 (158,160,186)	28.21	1532	0.175	0.175
70	84 (126,129)	28.42	376	0.010	0.010
71	85 (166,178)	28.77	3620	0.854	0.854
72	87 (175,159)	29.08	779	0.156	0.156
73	88 (182,187)	29.22	20878	2.542	2.542
74	89 (128,162)	29.35	817	0.069	0.069
75	90 (183)	29.54	8862	1.135	1.135
76	91 (167)	29.82	288	0.029	0.029
77	92 (185)	30.15	3674	0.336	0.336
78	93 (174,181)	30.53	17397	2.198	2.198
79	94 (177)	30.80	7853	1.136	1.136
80	95 (156,171)	31.11	3856	0.530	0.530
81	96 (157,202)	31.37	2562	0.049	0.049
82	98 (173)	31.55	301	0.030	0.030
83	99 (201)	31.93	1958	0.285	0.285
84	100 (172,204)	32.18	2617	0.399	0.399

85	101 (192,197)	32.47	503	0.079	0.079
86	102 (180)	32.67	38893	4.214	4.214
87	103 (193)	32.92	1977	0.286	0.286
88	104 (191)	33.22	545	0.080	0.080
89	105 (200,169)	33.59	2360	0.308	0.308
90	106 (170)	34.76	11715	0.834	0.834
91	107 (190)	35.04	3308	0.295	0.295
92	108 (198)	35.92	989	0.099	0.099
93	109 (199)	36.16	16010	3.001	3.001
94	110 (196,203)	36.70	17511	2.994	2.994
95	111 (189)	37.89	258	0.022	0.022
96	112 (195)	39.49	5675	0.375	0.375
97	113 (208)	40.01	1028	0.194	0.194
98	114 (207)	40.94	798	0.075	0.075
99	115 (194)	42.40	15702	1.223	1.223
100	116 (205)	43.33	738	0.077	0.077
101	117 (206)	48.56	5948	0.518	0.518
102	118 (209)	54.75	37	0.003	0.003
103	Sum			116.644	116.644

# Standards Raw Data (GC-24)



Sample Name: CCCS0531A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 05/31/2009 10:22:41 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-2

Sample Name: CCCS0531A

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 10:22:41  
 Lab Sample ID: CCCS0531A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-2

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 115 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.68	15.96
Di	12.40	15.59
Tri	17.95	19.63
Tetra	21.25	20.58
Penta	8.40	7.21
Hexa	8.00	6.30
Hepta	13.44	9.60
Octa	7.25	4.76
Nona	0.63	0.38
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.5151	37.6	30.6
A1242	23+24/31+28	5.7880	29.0	23.5
A1254SED	61/100	1.4519	7.27	
A1254BIO	69+75+82/149+153+138	6.0772		24.7
A1260	102/180	4.0267	20.2	16.4
A1268	115/194	1.1791	5.91	4.80

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.13

Total Cl / biphenyl Residue = 3.71

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 10:22:41  
 Lab Sample ID: CCCS0531A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.57	188.7	1776	7.52	39.8			
3	12.58	188.7		-	-			
4	12.68	188.7	578	4.72	25.0			
5	13.28	223.1	1081	2.00	8.95			
6	14.13	223.1	2676	0.723	3.24			
7	14.43	223.1	2143	1.17	5.26			
8	14.62	223.1	9003	9.43	42.3			
9	15.18	223.1		-	-			
10	15.25	257.5	598	0.211	0.819			
11	15.72	257.5		-	-			
12	15.78	223.1		-	-			
13	15.97	223.1	506	0.180	0.805			
14	16.11	249.0	8490	2.82	11.3			
15	16.19	257.5	3823	2.67	10.4			
16	16.49	257.5	933	0.200	0.778			
17	16.74	257.5	7314	2.89	11.2			
19	17.18	267.9	73	0.0240	0.0894			
20	17.36	257.5	190	0.0373	0.145			
21	17.49	257.5	1917	0.570	2.21			
22	17.58	257.5	1068	0.243	0.944			
23	17.77	257.5	11536	2.83	11.0			
24	17.82	257.5	13520	2.96	11.5			
25	18.17	259.5	9934	2.82	10.9			
26	18.40	258.7	6571	1.96	7.56			
27	18.63	292.0	2567	0.686	2.35			
28	18.77	257.5		-	-			
29	18.90	292.0	989	0.296	1.01			
30	19.03	257.5		-	-			
31	19.20	292.0	10171	3.72	12.7			
32	19.36	292.0	8355	1.53	5.24			
33	19.48	292.0	3664	0.471	1.61			
34	19.54	292.0	3633	0.648	2.22			
35	19.68	292.0		-	-			
36	19.76	257.5	146	0.0649	0.252			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.93	292.0	12733	2.98	10.2			
38	20.06	272.4	7252	2.11	7.73			
39	20.40	292.0	14280	2.58	8.85			
41	20.57	326.4	168	0.0526	0.161			
42	20.67	292.0	3251	0.711	2.44			
43	20.91	298.9	133	0.0299	0.100			
44	21.08	298.9	489	0.0734	0.245			
45	21.24	292.0	758	0.116	0.399			
46	21.41	292.0	7617	0.927	3.17			
47	21.55	292.0	14470	2.23	7.62			
48	21.66	293.5	19112	4.41	15.0			
49	21.96	324.7	1661	0.324	0.998			
50	22.26	292.0	13334	2.01	6.89			
51	22.50	326.4	3733	1.49	4.56			
52	22.60	326.4	327	0.0641	0.196			
53	22.76	326.4	6855	1.27	3.89			
54	22.95	326.4	3348	0.397	1.22			
55	23.22	326.4	185	0.0142	0.0434			
56	23.32	326.4	660	0.130	0.397			
57	23.53	326.4	3048	0.419	1.28			
58	23.71	326.4	5225	0.852	2.61			
59	23.86	326.4	2842	0.376	1.15			
60	23.99	360.9	2831	0.456	1.26			
61	24.11	326.4	7865	1.45	4.45			
62	24.39	360.9	-	-	-			
63	24.48	326.4	2208	0.328	1.01			
64	24.78	360.9	6922	1.16	3.23			
65	24.91	350.5	2043	0.194	0.553			
66	24.97	360.9	1528	0.403	1.12			
67	25.03	336.8	533	0.103	0.307			
68	25.13	326.4	184	0.0302	0.0924			
69	25.22	337.5	16738	2.54	7.52			
70	25.33	360.9	-	-	-			
71	25.61	347.8	792	0.107	0.307			
72	25.82	336.8	121	0.0104	0.0309			
73	26.09	360.9	1776	0.245	0.678			
74	26.21	347.8	7536	0.838	2.41			
75	26.36	360.9	15019	1.85	5.13			
76	26.47	360.9	-	-	-			
77	26.87	360.9	5731	1.12	3.11			
78	26.94	395.3	6241	1.03	2.60			
79	27.14	360.9	166	0.0436	0.121			
80	27.29	360.9	2313	0.165	0.457			
82	27.50	360.9	13019	1.69	4.68			
83	27.68	360.9	1427	0.160	0.444			
84	27.88	360.9	300	0.00820	0.0227			
85	28.21	395.3	3187	0.774	1.96			
87	28.50	395.3	653	0.144	0.363			
88	28.65	395.3	18262	2.46	6.23			
89	28.74	360.9	698	0.0683	0.189			
90	28.94	395.3	8100	1.13	2.86			
91	29.20	360.9	366	0.0340	0.0942			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.52	394.3	3504	0.333	0.844			
93	29.88	394.3	15455	2.14	5.43			
94	30.14	394.3	7287	1.13	2.87			
95	30.43	382.2	3607	0.506	1.32			
96	30.68	429.8	2364	0.0480	0.112			
98	30.84	395.3	259	0.0278	0.0704			
99	31.21	429.8	1737	0.255	0.593			
100	31.45	395.3	2438	0.371	0.940			
101	31.74	429.8	479	0.0859	0.200			
102	31.91	395.3	34182	4.03	10.2			
103	32.15	395.3	1927	0.283	0.717			
104	32.43	395.3	584	0.0892	0.226			
105	32.78	429.8	2189	0.294	0.684			
106	33.89	395.3	10819	0.832	2.10			
107	34.15	395.3	3104	0.290	0.734			
108	34.99	429.8	1178	0.0939	0.219			
109	35.21	429.8	14791	2.96	6.89			
110	35.73	429.8	16095	2.96	6.88			
111	36.86	395.3	218	0.0162	0.0410			
112	38.35	429.8	5276	0.355	0.827			
113	38.86	464.2	914	0.177	0.382			
114	39.77	464.2	670	0.0635	0.137			
115	41.12	429.8	14312	1.18	2.74			
116	41.99	429.8	741	0.0736	0.171			
117	46.92	464.2	5462	0.479	1.03			
118	52.77	498.6	14	0.000819	0.00164			

Total Concentration = 115 ng/mL

Total Nanomoles = 0.406

Average Molecular Weight = 281.9

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 137764.7

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 10:22:41  
 Lab Sample ID: CCCS0531A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	6.560	9.801
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003	0.2792	4	4.120	6.156
5	13.28	2:2	004 010	0.2924	2-2; 26	1.742	2.202
6	14.13	2:1	007 009	0.3112	24; 25	0.631	0.797
7	14.43	2:1	006	0.3178	2-3	1.025	1.295
8	14.62	2:1	005 008	0.3220	23; 2-4	8.234	10.405
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	0.184	0.202
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.97	2:0	012 013	0.3517	34; 3-4	0.157	0.198
14	16.11	2:0 3:2	015 018	0.3548	4-4; 25-2	2.458	2.784
15	16.19	3:2	017	0.3565	24-2	2.330	2.551
16	16.49	3:2	024 027	0.3631	236; 26-3	0.175	0.191
17	16.74	3:2	016 032	0.3686	23-2; 26-4	2.525	2.764
19	17.18	3:1 4:4	023 034 054	0.3783	235; 35-2; 26-26	0.021	0.022
20	17.36	3:1	029	0.3823	245	0.033	0.036
21	17.49	3:1	026	0.3852	25-3	0.498	0.545
22	17.58	3:1	025	0.3871	24-3	0.212	0.232
23	17.77	3:1	031	0.3913	25-4	2.469	2.703
24	17.82	3:1 4:3	028 050	0.3924	24-4; 246-2	2.584	2.829
25	18.17	3:1 4:3	020 021 033 053	0.4001	23-3; 234; 34-2; 25-26	2.465	2.678
26	18.40	3:1 4:3	022 051	0.4052	23-4; 24-26	1.707	1.860
27	18.63	4:3	045	0.4103	236-2	0.599	0.578
28	18.77	3:0	036		35-3	-	-
29	18.90	4:3	046	0.4162	23-26	0.258	0.249
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4228	25-25; 246-3; 26-35	3.247	3.135
32	19.36	4:2	043 049	0.4263	235-2; 24-25	1.335	1.289
33	19.48	4:2	038 047	0.4290	345; 24-24	0.411	0.397
34	19.54	4:2	048 075	0.4303	245-2; 246-4	0.566	0.546
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035	0.4351	34-3	0.057	0.062
37	19.93	5:4 4:2	104 044	0.4389	246-26; 23-25	2.598	2.509
38	20.06	3:0 4:2	037 042 059	0.4418	34-4; 23-24; 236-3	1.838	1.902
39	20.40	4:2	041 064 071 072	0.4492	234-2; 236-4; 26-34; 25-35	2.256	2.178

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096	0.4530	24-35; 236-26	0.046	0.040
42	20.67	4:2	040	0.4552	23-23	0.621	0.599
43	20.91	4:1 5:3	057 103	0.4605	235-3; 246-25	0.026	0.025
44	21.08	4:1 5:3	058 067 100	0.4642	23-35; 245-3; 246-24	0.064	0.060
45	21.24	4:1	063	0.4677	235-4	0.102	0.098
46	21.41	4:1 5:3	074 094 061	0.4715	245-4; 235-26; 2345	0.809	0.781
47	21.55	4:1	070	0.4746	25-34	1.943	1.876
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4770	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.847	3.695
49	21.96	4:1 5:3	055 091 121	0.4836	234-3; 236-24; 246-35	0.283	0.246
50	22.26	4:1	056 060	0.4902	23-34; 234-4	1.755	1.695
51	22.50	5:3 6:4	084 092 155	0.4955	236-23; 235-25; 246-246	1.299	1.122
52	22.60	5:3	089	0.4977	234-26	0.056	0.048
53	22.76	5:2	090 101	0.5012	235-24; 245-25	1.108	0.957
54	22.95	5:2	079 099 113	0.5054	34-35; 245-24; 236-35	0.347	0.299
55	23.22	5:2 6:4	119 150	0.5113	246-34; 236-246	0.012	0.011
56	23.32	5:2	078 083 112 108	0.5135	345-3; 235-23; 2356-3; 2346-3	0.113	0.098
57	23.53	5:2 6:4	097 152 086	0.5182	245-23; 2356-26; 2345-2	0.365	0.316
58	23.71	5:2	081 087 117 125 115 145	0.5221	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.744	0.642
59	23.86	5:2	116 085 111	0.5254	23456; 234-24; 235-35	0.328	0.283
60	23.99	6:4	120 136	0.5283	245-35; 236-236	0.398	0.311
61	24.11	5:2	077 110 148	0.5309	34-34; 236-34; 235-246	1.267	1.095
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5391	234-23	0.286	0.247
64	24.78	6:3	151	0.5457	2356-25	1.016	0.794
65	24.91	5:1 6:3	124 135	0.5486	345-25; 235-236	0.169	0.136
66	24.97	6:3	144	0.5499	2346-25	0.352	0.275
67	25.03	5:1 6:3	107 109 147	0.5512	234-35; 235-34; 2356-24	0.090	0.075
68	25.13	5:1	123	0.5534	345-24	0.026	0.023
69	25.22	5:1 6:3	106 118 139 149	0.5554	2345-3; 245-34; 2346-24; 236-245	2.215	1.850
70	25.33	6:3	140		234-246	-	-
71	25.61	5:1 6:3	114 134 143	0.5640	2345-4; 2356-23; 2345-26	0.093	0.075
72	25.82	5:1 6:3	122 131 133 142	0.5686	345-23; 2346-23; 235-235; 23456-2	0.009	0.008
73	26.09	6:2	146 165 188	0.5745	235-245; 2356-35; 2356-246	0.213	0.167
74	26.21	5:1 6:3	105 132 161	0.5772	234-34; 234-236; 2346-35	0.732	0.593
75	26.36	6:2	153	0.5805	245-245	1.616	1.262
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141	0.5917	2345-25	0.981	0.766
78	26.94	7:4	179	0.5933	2356-236	0.896	0.639
79	27.14	6:2	137	0.5977	2345-24	0.038	0.030
80	27.29	6:2 7:4	130 176	0.6010	234-235; 2346-236	0.144	0.112
82	27.50	6:2	138 163 164	0.6056	234-245; 2356-34; 236-345	1.473	1.151
83	27.68	6:2	158 160 186	0.6096	2346-34; 23456-3; 23456-26	0.140	0.109
84	27.88	6:2	126 129	0.6140	345-34; 2345-23	0.007	0.006
85	28.21	7:3	166 178	0.6212	23456-4; 2356-235	0.676	0.482
87	28.50	7:3	175 159	0.6276	2346-235; 2345-35	0.125	0.089
88	28.65	7:3	182 187	0.6309	2345-246; 2356-245	2.149	1.532
89	28.74	6:2	128 162	0.6329	234-234; 235-345	0.060	0.047
90	28.94	7:3	183	0.6373	2346-245	0.987	0.704
91	29.20	6:1	167	0.6430	245-345	0.030	0.023
92	29.52	7:3	185	0.6501	23456-25	0.290	0.208
93	29.88	7:3	174 181	0.6580	2345-236; 23456-24	1.869	1.337
94	30.14	7:3	177	0.6637	2356-234	0.989	0.707
95	30.43	6:1 7:3	156 171	0.6701	2345-34; 2346-234	0.441	0.326
96	30.68	8:4	157 202	0.6756	234-345; 2356-2356	0.042	0.027
98	30.84	7:3	173	0.6791	23456-23	0.024	0.017
99	31.21	8:4	201	0.6873	2346-2356	0.223	0.146
100	31.45	7:2	172 204	0.6926	2345-235; 23456-246	0.324	0.231
101	31.74	8:4	192 197	0.6990	23456-35; 2346-2346	0.075	0.049
102	31.91	7:2	180	0.7027	2345-245	3.515	2.507
103	32.15	7:2	193	0.7080	2356-345	0.247	0.176
104	32.43	7:2	191	0.7142	2346-345	0.078	0.056
105	32.78	8:4	200 169	0.7219	23456-236; 345-345	0.257	0.168
106	33.89	7:2	170	0.7463	2345-234	0.726	0.518

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>	0.7520	23456-34	0.253	0.181
108	34.99	8:3	<b>198</b>	0.7705	23456-235	0.082	0.054
109	35.21	8:3	<b>199</b>	0.7754	2345-2356	2.586	1.697
110	35.73	8:3	<b>196 203</b>	0.7868	2345-2346; 23456-245	2.582	1.694
111	36.86	7:1	<b>189</b>	0.8117	2345-345	0.014	0.010
112	38.35	8:3	<b>195</b>	0.8445	23456-234	0.310	0.203
113	38.86	9:4	<b>208</b>	0.8558	23456-2356	0.155	0.094
114	39.77	9:4	<b>207</b>	0.8758	23456-2346	0.055	0.034
115	41.12	8:2	<b>194</b>	0.9055	2345-2345	1.029	0.675
116	41.99	8:2	<b>205</b>	0.9247	23456-345	0.064	0.042
117	46.92	9:3	<b>206</b>	1.033	23456-2345	0.418	0.254
118	52.77	10:4	<b>209</b>	1.162	23456-23456	0.001	0.000

Concentration = 115 ng/mL

Total Nanomoles = 0.406

Average Molecular Weight = 281.9

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

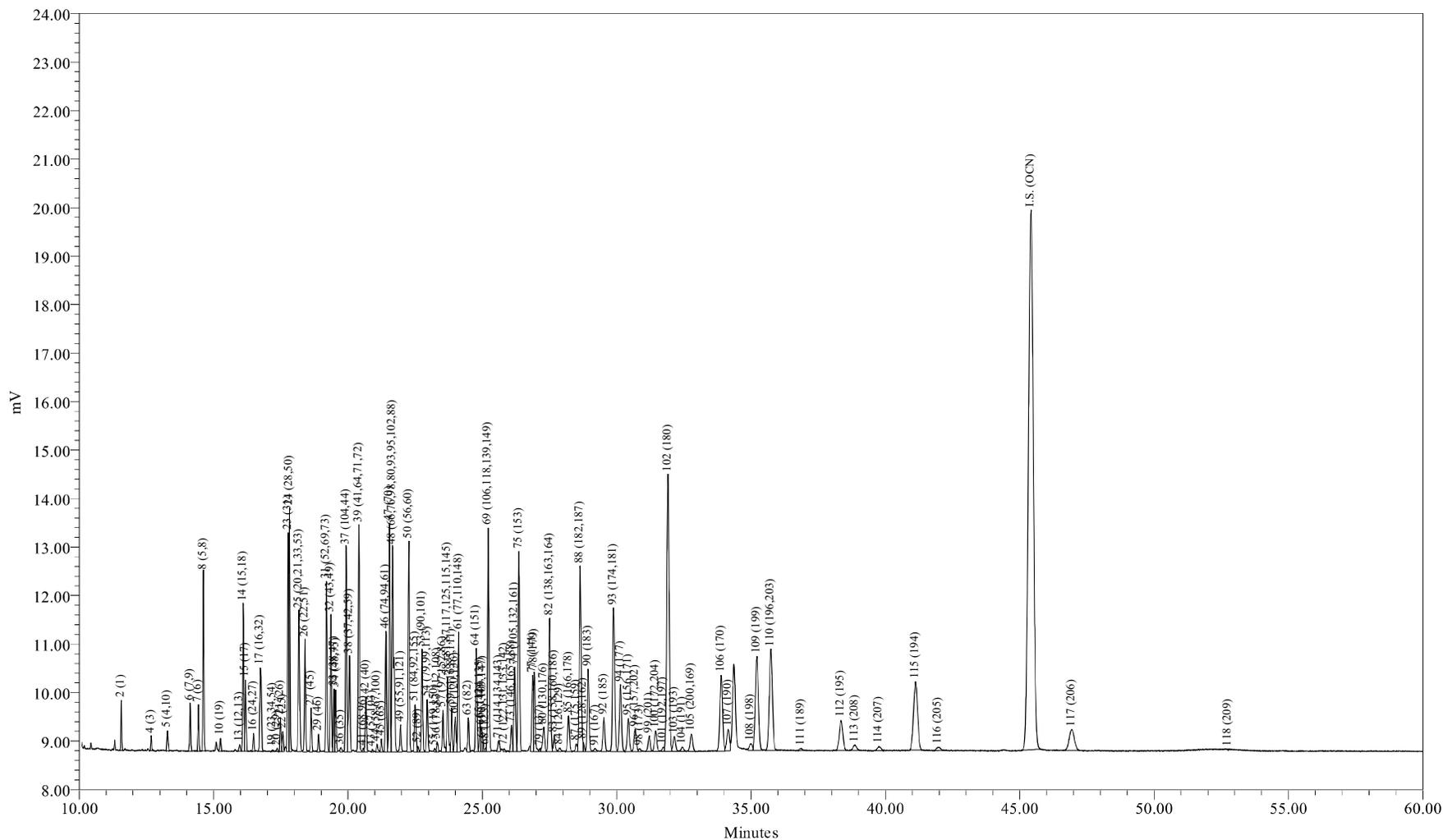
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Sample Name: CCCS0531B  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 05/31/2009 21:34:42 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-12

Sample Name: CCCS0531B

1 of 1

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 21:34:42  
 Lab Sample ID: CCCS0531B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-12

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 117 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.07	16.50
Di	12.23	15.34
Tri	17.99	19.63
Tetra	21.28	20.56
Penta	8.41	7.20
Hexa	8.05	6.32
Hepta	13.23	9.43
Octa	7.09	4.64
Nona	0.64	0.39
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.6234	37.7	30.6
A1242	23+24/31+28	5.9028	29.2	23.7
A1254SED	61/100	1.4662	7.26	
A1254BIO	69+75+82/149+153+138	6.1681		24.8
A1260	102/180	4.0276	19.9	16.2
A1268	115/194	1.1869	5.87	4.76

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 2.12

Total Cl / biphenyl Residue = 3.69

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 21:34:42  
 Lab Sample ID: CCCS0531B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.57	188.7	1858	7.62	40.4			
3	12.58	188.7		-	-			
4	12.68	188.7	674	5.33	28.3			
5	13.28	223.1	1154	2.07	9.26			
6	14.13	223.1	2803	0.735	3.29			
7	14.43	223.1	2234	1.19	5.32			
8	14.62	223.1	9291	9.44	42.3			
9	15.18	223.1		-	-			
10	15.25	257.5	666	0.228	0.884			
11	15.72	257.5		-	-			
12	15.78	223.1		-	-			
13	15.98	223.1	511	0.176	0.789			
14	16.11	249.0	8882	2.86	11.5			
15	16.19	257.5	3958	2.68	10.4			
16	16.49	257.5	941	0.196	0.761			
17	16.74	257.5	7594	2.91	11.3			
19	17.20	267.9	120	0.0383	0.143			
20	17.37	257.5	210	0.0399	0.155			
21	17.49	257.5	2040	0.589	2.29			
22	17.58	257.5	1128	0.249	0.967			
23	17.78	257.5	12355	2.94	11.4			
24	17.82	257.5	13951	2.96	11.5			
25	18.17	259.5	10467	2.89	11.1			
26	18.40	258.7	6996	2.02	7.81			
27	18.63	292.0	2682	0.695	2.38			
28	18.77	257.5		-	-			
29	18.90	292.0	1091	0.317	1.08			
30	19.03	257.5		-	-			
31	19.20	292.0	10756	3.82	13.1			
32	19.36	292.0	8853	1.57	5.39			
33	19.48	292.0	3912	0.488	1.67			
34	19.54	292.0	3928	0.680	2.33			
35	19.68	292.0		-	-			
36	19.73	257.5	359	0.154	0.599			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.93	292.0	13341	3.03	10.4			
38	20.06	272.4	7784	2.19	8.05			
39	20.40	292.0	15034	2.64	9.04			
41	20.57	326.4	211	0.0640	0.196			
42	20.67	292.0	3464	0.735	2.52			
43	20.91	298.9	173	0.0376	0.126			
44	21.09	298.9	579	0.0843	0.282			
45	21.24	292.0	866	0.129	0.442			
46	21.41	292.0	8011	0.946	3.24			
47	21.54	292.0	15105	2.25	7.72			
48	21.66	293.5	20049	4.49	15.3			
49	21.96	324.7	1957	0.371	1.14			
50	22.26	292.0	13808	2.02	6.92			
51	22.50	326.4	3925	1.52	4.65			
52	22.61	326.4	354	0.0674	0.207			
53	22.76	326.4	7173	1.29	3.95			
54	22.95	326.4	3519	0.405	1.24			
55	23.23	326.4	222	0.0166	0.0507			
56	23.32	326.4	683	0.130	0.399			
57	23.54	326.4	3153	0.420	1.29			
58	23.71	326.4	5430	0.859	2.63			
59	23.86	326.4	2997	0.385	1.18			
60	23.99	360.9	2989	0.467	1.29			
61	24.11	326.4	8187	1.47	4.49			
62	24.39	360.9	-	-	-			
63	24.48	326.4	2334	0.337	1.03			
64	24.78	360.9	7251	1.18	3.28			
65	24.91	350.5	2115	0.195	0.555			
66	24.97	360.9	1668	0.426	1.18			
67	25.02	336.8	570	0.107	0.318			
68	25.12	326.4	216	0.0344	0.105			
69	25.22	337.5	17501	2.57	7.63			
70	25.33	360.9	-	-	-			
71	25.61	347.8	1001	0.131	0.376			
72	25.82	336.8	256	0.0212	0.0630			
73	26.08	360.9	1978	0.264	0.732			
74	26.21	347.8	7985	0.862	2.48			
75	26.36	360.9	15749	1.88	5.22			
76	26.47	360.9	-	-	-			
77	26.87	360.9	6151	1.17	3.24			
78	26.94	395.3	6503	1.04	2.63			
79	27.16	360.9	211	0.0539	0.149			
80	27.29	360.9	2560	0.177	0.491			
82	27.50	360.9	13592	1.71	4.74			
83	27.68	360.9	1531	0.167	0.462			
84	27.88	360.9	398	0.0106	0.0294			
85	28.21	395.3	3353	0.791	2.00			
87	28.49	395.3	731	0.156	0.394			
88	28.64	395.3	19016	2.49	6.29			
89	28.75	360.9	598	0.0568	0.157			
90	28.94	395.3	8378	1.13	2.87			
91	29.20	360.9	402	0.0363	0.101			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.52	394.3	3617	0.333	0.845			
93	29.88	394.3	15949	2.14	5.44			
94	30.14	394.3	7613	1.15	2.91			
95	30.43	382.2	3783	0.515	1.35			
96	30.69	429.8	2560	0.0504	0.117			
98	30.86	395.3	287	0.0299	0.0757			
99	31.21	429.8	1817	0.259	0.602			
100	31.44	395.3	2536	0.375	0.948			
101	31.74	429.8	448	0.0778	0.181			
102	31.91	395.3	35246	4.03	10.2			
103	32.15	395.3	1972	0.281	0.712			
104	32.43	395.3	559	0.0827	0.209			
105	32.78	429.8	2341	0.305	0.710			
106	33.89	395.3	11222	0.837	2.12			
107	34.14	395.3	3158	0.287	0.725			
108	34.98	429.8	1092	0.0844	0.196			
109	35.22	429.8	15149	2.94	6.85			
110	35.74	429.8	16625	2.96	6.90			
111	36.88	395.3	263	0.0191	0.0482			
112	38.35	429.8	5538	0.362	0.842			
113	38.87	464.2	1029	0.194	0.417			
114	39.76	464.2	751	0.0692	0.149			
115	41.12	429.8	14851	1.19	2.76			
116	41.96	429.8	705	0.0679	0.158			
117	46.93	464.2	5664	0.482	1.04			
118	52.76	498.6	11	0.000612	0.00123			

Total Concentration = 117 ng/mL

Total Nanomoles = 0.416

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.42 minutes

Internal Standard Peak Area = 142025.8

Northeast Analytical, Inc.  
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 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 21:34:42  
 Lab Sample ID: CCCS0531B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2547	2	6.514	9.708
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003	0.2792	4	4.557	6.792
5	13.28	2:2	004 010	0.2924	2-2; 26	1.766	2.226
6	14.13	2:1	007 009	0.3111	24; 25	0.628	0.791
7	14.43	2:1	006	0.3177	2-3	1.015	1.279
8	14.62	2:1	005 008	0.3219	23; 2-4	8.068	10.171
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	0.195	0.212
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013	0.3518	34; 3-4	0.150	0.190
14	16.11	2:0 3:2	015 018	0.3547	4-4; 25-2	2.443	2.759
15	16.19	3:2	017	0.3565	24-2	2.291	2.502
16	16.49	3:2	024 027	0.3631	236; 26-3	0.167	0.183
17	16.74	3:2	016 032	0.3686	23-2; 26-4	2.489	2.718
19	17.20	3:1 4:4	023 034 054	0.3787	235; 35-2; 26-26	0.033	0.034
20	17.37	3:1	029	0.3824	245	0.034	0.037
21	17.49	3:1	026	0.3851	25-3	0.503	0.549
22	17.58	3:1	025	0.3871	24-3	0.213	0.232
23	17.78	3:1	031	0.3915	25-4	2.512	2.744
24	17.82	3:1 4:3	028 050	0.3923	24-4; 246-2	2.531	2.765
25	18.17	3:1 4:3	020 021 033 053	0.4000	23-3; 234; 34-2; 25-26	2.467	2.674
26	18.40	3:1 4:3	022 051	0.4051	23-4; 24-26	1.726	1.877
27	18.63	4:3	045	0.4102	236-2	0.594	0.572
28	18.77	3:0	036		35-3	-	-
29	18.90	4:3	046	0.4161	23-26	0.271	0.261
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4227	25-25; 246-3; 26-35	3.261	3.141
32	19.36	4:2	043 049	0.4262	235-2; 24-25	1.344	1.294
33	19.48	4:2	038 047	0.4289	345; 24-24	0.417	0.402
34	19.54	4:2	048 075	0.4302	245-2; 246-4	0.581	0.560
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.73	3:0	035	0.4344	34-3	0.132	0.144
37	19.93	5:4 4:2	104 044	0.4388	246-26; 23-25	2.586	2.490
38	20.06	3:0 4:2	037 042 059	0.4417	34-4; 23-24; 236-3	1.874	1.935
39	20.40	4:2	041 064 071 072	0.4491	234-2; 236-4; 26-34; 25-35	2.256	2.173

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096	0.4529	24-35; 236-26	0.055	0.047
42	20.67	4:2	040	0.4551	23-23	0.628	0.605
43	20.91	4:1 5:3	057 103	0.4604	235-3; 246-25	0.032	0.030
44	21.09	4:1 5:3	058 067 100	0.4643	23-35; 245-3; 246-24	0.072	0.068
45	21.24	4:1	063	0.4676	235-4	0.110	0.106
46	21.41	4:1 5:3	074 094 061	0.4714	245-4; 235-26; 2345	0.808	0.779
47	21.54	4:1	070	0.4742	25-34	1.926	1.855
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4769	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.833	3.673
49	21.96	4:1 5:3	055 091 121	0.4835	234-3; 236-24; 246-35	0.317	0.275
50	22.26	4:1	056 060	0.4901	23-34; 234-4	1.726	1.662
51	22.50	5:3 6:4	084 092 155	0.4954	236-23; 235-25; 246-246	1.297	1.118
52	22.61	5:3	089	0.4978	234-26	0.058	0.050
53	22.76	5:2	090 101	0.5011	235-24; 245-25	1.101	0.949
54	22.95	5:2	079 099 113	0.5053	34-35; 245-24; 236-35	0.346	0.298
55	23.23	5:2 6:4	119 150	0.5114	246-34; 236-246	0.014	0.012
56	23.32	5:2	078 083 112 108	0.5134	345-3; 235-23; 2356-3; 2346-3	0.111	0.096
57	23.54	5:2 6:4	097 152 086	0.5183	245-23; 2356-26; 2345-2	0.359	0.309
58	23.71	5:2	081 087 117 125 115 145	0.5220	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.734	0.632
59	23.86	5:2	116 085 111	0.5253	23456; 234-24; 235-35	0.329	0.283
60	23.99	6:4	120 136	0.5282	245-35; 236-236	0.399	0.311
61	24.11	5:2	077 110 148	0.5308	34-34; 236-34; 235-246	1.253	1.079
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5390	234-23	0.288	0.248
64	24.78	6:3	151	0.5456	2356-25	1.011	0.788
65	24.91	5:1 6:3	124 135	0.5484	345-25; 235-236	0.166	0.133
66	24.97	6:3	144	0.5498	2346-25	0.364	0.284
67	25.02	5:1 6:3	107 109 147	0.5509	234-35; 235-34; 2356-24	0.092	0.076
68	25.12	5:1	123	0.5531	345-24	0.029	0.025
69	25.22	5:1 6:3	106 118 139 149	0.5553	2345-3; 245-34; 2346-24; 236-245	2.200	1.833
70	25.33	6:3	140		234-246	-	-
71	25.61	5:1 6:3	114 134 143	0.5638	2345-4; 2356-23; 2345-26	0.112	0.090
72	25.82	5:1 6:3	122 131 133 142	0.5685	345-23; 2346-23; 235-235; 23456-2	0.018	0.015
73	26.08	6:2	146 165 188	0.5742	235-245; 2356-35; 2356-246	0.226	0.176
74	26.21	5:1 6:3	105 132 161	0.5771	234-34; 234-236; 2346-35	0.736	0.595
75	26.36	6:2	153	0.5804	245-245	1.610	1.254
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141	0.5916	2345-25	1.000	0.779
78	26.94	7:4	179	0.5931	2356-236	0.887	0.631
79	27.16	6:2	137	0.5980	2345-24	0.046	0.036
80	27.29	6:2 7:4	130 176	0.6008	234-235; 2346-236	0.151	0.118
82	27.50	6:2	138 163 164	0.6055	234-245; 2356-34; 236-345	1.461	1.139
83	27.68	6:2	158 160 186	0.6094	2346-34; 23456-3; 23456-26	0.142	0.111
84	27.88	6:2	126 129	0.6138	345-34; 2345-23	0.009	0.007
85	28.21	7:3	166 178	0.6211	23456-4; 2356-235	0.675	0.481
87	28.49	7:3	175 159	0.6273	2346-235; 2345-35	0.133	0.095
88	28.64	7:3	182 187	0.6306	2345-246; 2356-245	2.125	1.512
89	28.75	6:2	128 162	0.6330	234-234; 235-345	0.049	0.038
90	28.94	7:3	183	0.6372	2346-245	0.969	0.689
91	29.20	6:1	167	0.6429	245-345	0.031	0.024
92	29.52	7:3	185	0.6499	23456-25	0.285	0.203
93	29.88	7:3	174 181	0.6579	2345-236; 23456-24	1.832	1.306
94	30.14	7:3	177	0.6636	2356-234	0.981	0.700
95	30.43	6:1 7:3	156 171	0.6700	2345-34; 2346-234	0.440	0.324
96	30.69	8:4	157 202	0.6757	234-345; 2356-2356	0.043	0.028
98	30.86	7:3	173	0.6794	23456-23	0.026	0.018
99	31.21	8:4	201	0.6871	2346-2356	0.221	0.145
100	31.44	7:2	172 204	0.6922	2345-235; 23456-246	0.320	0.228
101	31.74	8:4	192 197	0.6988	23456-35; 2346-2346	0.066	0.043
102	31.91	7:2	180	0.7026	2345-245	3.442	2.448
103	32.15	7:2	193	0.7078	2356-345	0.240	0.171
104	32.43	7:2	191	0.7140	2346-345	0.071	0.050
105	32.78	8:4	200 169	0.7217	23456-236; 345-345	0.261	0.171
106	33.89	7:2	170	0.7461	2345-234	0.715	0.509

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.14	7:2	<b>190</b>	0.7517	23456-34	0.245	0.174
108	34.98	8:3	<b>198</b>	0.7701	23456-235	0.072	0.047
109	35.22	8:3	<b>199</b>	0.7754	2345-2356	2.515	1.646
110	35.74	8:3	<b>196 203</b>	0.7869	2345-2346; 23456-245	2.532	1.657
111	36.88	7:1	<b>189</b>	0.8120	2345-345	0.016	0.012
112	38.35	8:3	<b>195</b>	0.8443	23456-234	0.309	0.202
113	38.87	9:4	<b>208</b>	0.8558	23456-2356	0.165	0.100
114	39.76	9:4	<i>207</i>	0.8754	23456-2346	0.059	0.036
115	41.12	8:2	<b>194</b>	0.9053	2345-2345	1.014	0.664
116	41.96	8:2	<b>205</b>	0.9238	23456-345	0.058	0.038
117	46.93	9:3	<b>206</b>	1.033	23456-2345	0.412	0.249
118	52.76	10:4	<i>209</i>	1.162	23456-23456	0.001	0.000

Concentration = 117 ng/mL

Total Nanomoles = 0.416

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

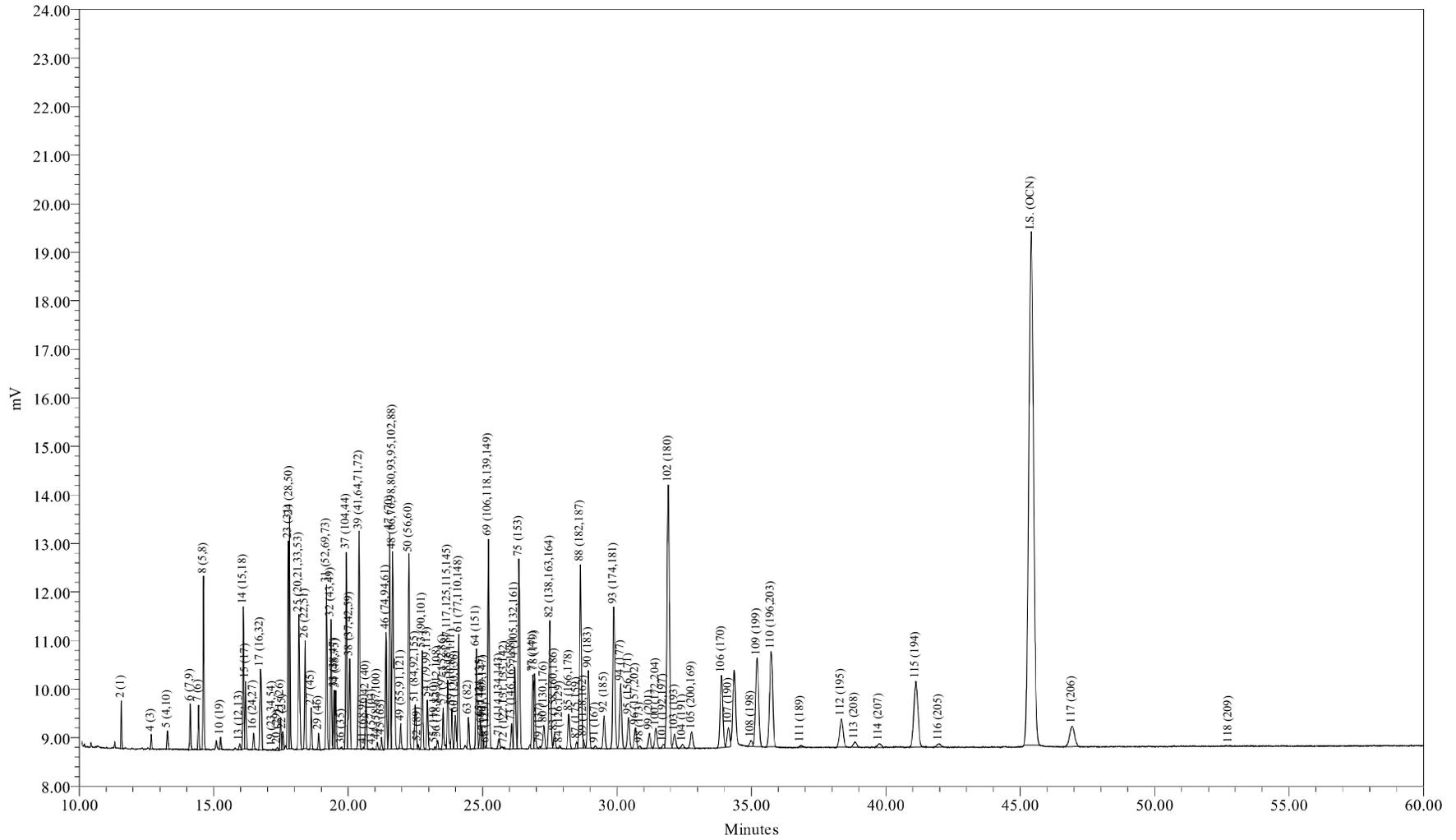
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Sample Name: CCCS0601B  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 06/01/2009 23:22:21 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-74-7

Sample Name: CCCS0601B

1 of 1

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 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/01/2009 23:22:21  
 Lab Sample ID: CCCS0601B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-74-7

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 120 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.49	17.07
Di	12.39	15.49
Tri	17.84	19.41
Tetra	21.19	20.41
Penta	8.27	7.06
Hexa	7.87	6.17
Hepta	13.23	9.39
Octa	7.09	4.63
Nona	0.64	0.38
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.8618	37.7	30.7
A1242	23+24/31+28	6.0437	29.0	23.6
A1254SED	61/100	1.5127	7.26	
A1254BIO	69+75+82/149+153+138	6.3057		24.6
A1260	102/180	4.1808	20.1	16.3
A1268	115/194	1.2395	5.95	4.84

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 2.11

Total Cl / biphenyl Residue = 3.66

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/01/2009 23:22:21  
 Lab Sample ID: CCCS0601B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-74-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.57	188.7	1770	7.86	41.7			
3	12.58	188.7		-	-			
4	12.68	188.7	690	5.90	31.3			
5	13.28	223.1	1081	2.10	9.40			
6	14.13	223.1	2723	0.773	3.46			
7	14.43	223.1	2145	1.23	5.53			
8	14.62	223.1	8940	9.84	44.1			
9	15.18	223.1		-	-			
10	15.25	257.5	565	0.209	0.813			
11	15.72	257.5		-	-			
12	15.78	223.1		-	-			
13	15.97	223.1	450	0.168	0.752			
14	16.10	249.0	8438	2.94	11.8			
15	16.19	257.5	3730	2.73	10.6			
16	16.48	257.5	880	0.198	0.771			
17	16.74	257.5	7294	3.03	11.8			
19	17.19	267.9	116	0.0403	0.150			
20	17.37	257.5	237	0.0488	0.189			
21	17.49	257.5	1930	0.603	2.34			
22	17.57	257.5	1027	0.245	0.952			
23	17.77	257.5	11671	3.01	11.7			
24	17.82	257.5	13206	3.04	11.8			
25	18.17	259.5	9866	2.95	11.4			
26	18.40	258.7	6415	2.00	7.75			
27	18.63	292.0	2433	0.682	2.34			
28	18.77	257.5		-	-			
29	18.90	292.0	972	0.305	1.05			
30	19.03	257.5		-	-			
31	19.20	292.0	10161	3.90	13.4			
32	19.36	292.0	8355	1.61	5.50			
33	19.48	292.0	3688	0.498	1.71			
34	19.54	292.0	3540	0.663	2.27			
35	19.68	292.0		-	-			
36	19.76	257.5	100	0.0464	0.180			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.93	292.0	12665	3.11	10.7			
38	20.06	272.4	7254	2.21	8.12			
39	20.40	292.0	14217	2.70	9.26			
41	20.57	326.4	126	0.0412	0.126			
42	20.67	292.0	3223	0.740	2.53			
43	20.91	298.9	131	0.0308	0.103			
44	21.09	298.9	471	0.0742	0.248			
45	21.24	292.0	795	0.128	0.439			
46	21.41	292.0	7569	0.968	3.31			
47	21.54	292.0	14356	2.32	7.94			
48	21.66	293.5	19024	4.61	15.7			
49	21.96	324.7	1591	0.326	1.00			
50	22.26	292.0	13043	2.07	7.08			
51	22.50	326.4	3645	1.53	4.68			
52	22.60	326.4	301	0.0620	0.190			
53	22.76	326.4	6832	1.33	4.07			
54	22.95	326.4	3353	0.418	1.28			
55	23.23	326.4	162	0.0130	0.0399			
56	23.33	326.4	600	0.124	0.379			
57	23.53	326.4	2956	0.426	1.31			
58	23.71	326.4	5116	0.876	2.68			
59	23.86	326.4	2785	0.387	1.18			
60	23.98	360.9	2712	0.458	1.27			
61	24.11	326.4	7801	1.51	4.63			
62	24.39	360.9	-	-	-			
63	24.48	326.4	2186	0.341	1.05			
64	24.77	360.9	6837	1.21	3.35			
65	24.91	350.5	2012	0.200	0.572			
66	24.97	360.9	1465	0.405	1.12			
67	25.03	336.8	418	0.0846	0.251			
68	25.12	326.4	130	0.0224	0.0685			
69	25.22	337.5	16477	2.62	7.78			
70	25.33	360.9	-	-	-			
71	25.61	347.8	784	0.111	0.319			
72	25.80	336.8	135	0.0122	0.0362			
73	26.08	360.9	1845	0.267	0.739			
74	26.20	347.8	7517	0.878	2.52			
75	26.36	360.9	15012	1.94	5.39			
76	26.47	360.9	-	-	-			
77	26.87	360.9	5690	1.17	3.25			
78	26.94	395.3	6081	1.05	2.66			
79	27.13	360.9	112	0.0306	0.0848			
80	27.28	360.9	2208	0.165	0.458			
82	27.50	360.9	12756	1.74	4.81			
83	27.68	360.9	1221	0.144	0.398			
84	27.87	360.9	150	0.00426	0.0118			
85	28.21	395.3	3172	0.809	2.05			
87	28.50	395.3	530	0.123	0.310			
88	28.64	395.3	18106	2.56	6.49			
89	28.75	360.9	528	0.0543	0.151			
90	28.94	395.3	7878	1.15	2.92			
91	29.18	360.9	217	0.0210	0.0581			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.52	394.3	3402	0.339	0.860			
93	29.88	394.3	15279	2.22	5.64			
94	30.14	394.3	7226	1.18	2.99			
95	30.43	382.2	3580	0.527	1.38			
96	30.69	429.8	2362	0.0503	0.117			
98	30.86	395.3	242	0.0273	0.0690			
99	31.20	429.8	1735	0.267	0.622			
100	31.45	395.3	2362	0.378	0.956			
101	31.72	429.8	440	0.0828	0.193			
102	31.91	395.3	33785	4.18	10.6			
103	32.14	395.3	1820	0.281	0.711			
104	32.43	395.3	491	0.0787	0.199			
105	32.78	429.8	2216	0.313	0.727			
106	33.89	395.3	10504	0.848	2.14			
107	34.14	395.3	2682	0.264	0.667			
108	34.99	429.8	761	0.0636	0.148			
109	35.21	429.8	14320	3.01	7.01			
110	35.73	429.8	15722	3.03	7.06			
111	36.84	395.3	262	0.0206	0.0521			
112	38.35	429.8	5164	0.365	0.850			
113	38.84	464.2	916	0.187	0.402			
114	39.75	464.2	799	0.0798	0.172			
115	41.12	429.8	14323	1.24	2.88			
116	41.97	429.8	694	0.0723	0.168			
117	46.93	464.2	5385	0.496	1.07			
118	52.76	498.6	6	0.000266	0.000534			

Total Concentration = 120 ng/mL

Total Nanomoles = 0.427

Average Molecular Weight = 280.4

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.40 minutes

Internal Standard Peak Area = 131231.8

Northeast Analytical, Inc.  
2190 Technology Drive  
Schenectady, NY 12308  
(518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
Sample Description: CCC Std 122 ng/mL  
Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
Date Acquired: 06/01/2009 23:22:21  
Lab Sample ID: CCCS0601B  
LRF ID: CCC Std 122 ng/mL  
Lab File ID: GC24-74-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	6.561	9.750
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003	0.2793	4	4.925	7.319
5	13.28	2:2	004 010	0.2925	2-2; 26	1.749	2.199
6	14.13	2:1	007 009	0.3112	24; 25	0.645	0.811
7	14.43	2:1	006	0.3178	2-3	1.031	1.295
8	14.62	2:1	005 008	0.3220	23; 2-4	8.212	10.321
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3359	26-2	0.175	0.190
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.97	2:0	012 013	0.3518	34; 3-4	0.140	0.176
14	16.10	2:0 3:2	015 018	0.3546	4-4; 25-2	2.454	2.764
15	16.19	3:2	017	0.3566	24-2	2.282	2.485
16	16.48	3:2	024 027	0.3630	236; 26-3	0.166	0.180
17	16.74	3:2	016 032	0.3687	23-2; 26-4	2.528	2.753
19	17.19	3:1 4:4	023 034 054	0.3786	235; 35-2; 26-26	0.034	0.035
20	17.37	3:1	029	0.3826	245	0.041	0.044
21	17.49	3:1	026	0.3852	25-3	0.503	0.548
22	17.57	3:1	025	0.3870	24-3	0.205	0.223
23	17.77	3:1	031	0.3914	25-4	2.510	2.733
24	17.82	3:1 4:3	028 050	0.3925	24-4; 246-2	2.534	2.760
25	18.17	3:1 4:3	020 021 033 053	0.4002	23-3; 234; 34-2; 25-26	2.459	2.657
26	18.40	3:1 4:3	022 051	0.4053	23-4; 24-26	1.673	1.813
27	18.63	4:3	045	0.4104	236-2	0.569	0.547
28	18.77	3:0	036		35-3	-	-
29	18.90	4:3	046	0.4163	23-26	0.255	0.245
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4229	25-25; 246-3; 26-35	3.258	3.128
32	19.36	4:2	043 049	0.4264	235-2; 24-25	1.341	1.288
33	19.48	4:2	038 047	0.4291	345; 24-24	0.416	0.399
34	19.54	4:2	048 075	0.4304	245-2; 246-4	0.554	0.532
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035	0.4352	34-3	0.039	0.042
37	19.93	5:4 4:2	104 044	0.4390	246-26; 23-25	2.596	2.493
38	20.06	3:0 4:2	037 042 059	0.4419	34-4; 23-24; 236-3	1.847	1.901
39	20.40	4:2	041 064 071 072	0.4493	234-2; 236-4; 26-34; 25-35	2.256	2.166

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096	0.4531	24-35; 236-26	0.034	0.030
42	20.67	4:2	040	0.4553	23-23	0.618	0.593
43	20.91	4:1 5:3	057 103	0.4606	235-3; 246-25	0.026	0.024
44	21.09	4:1 5:3	058 067 100	0.4645	23-35; 245-3; 246-24	0.062	0.058
45	21.24	4:1	063	0.4678	235-4	0.107	0.103
46	21.41	4:1 5:3	074 094 061	0.4716	245-4; 235-26; 2345	0.808	0.776
47	21.54	4:1	070	0.4744	25-34	1.936	1.859
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4771	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.847	3.675
49	21.96	4:1 5:3	055 091 121	0.4837	234-3; 236-24; 246-35	0.272	0.235
50	22.26	4:1	056 060	0.4903	23-34; 234-4	1.724	1.656
51	22.50	5:3 6:4	084 092 155	0.4956	236-23; 235-25; 246-246	1.274	1.094
52	22.60	5:3	089	0.4978	234-26	0.052	0.044
53	22.76	5:2	090 101	0.5013	235-24; 245-25	1.109	0.953
54	22.95	5:2	079 099 113	0.5055	34-35; 245-24; 236-35	0.349	0.299
55	23.23	5:2 6:4	119 150	0.5117	246-34; 236-246	0.011	0.009
56	23.33	5:2	078 083 112 108	0.5139	345-3; 235-23; 2356-3; 2346-3	0.103	0.089
57	23.53	5:2 6:4	097 152 086	0.5183	245-23; 2356-26; 2345-2	0.356	0.306
58	23.71	5:2	081 087 117 125 115 145	0.5222	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.731	0.628
59	23.86	5:2	116 085 111	0.5256	23456; 234-24; 235-35	0.323	0.277
60	23.98	6:4	120 136	0.5282	245-35; 236-236	0.383	0.297
61	24.11	5:2	077 110 148	0.5311	34-34; 236-34; 235-246	1.262	1.085
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5392	234-23	0.285	0.245
64	24.77	6:3	151	0.5456	2356-25	1.008	0.783
65	24.91	5:1 6:3	124 135	0.5487	345-25; 235-236	0.167	0.134
66	24.97	6:3	144	0.5500	2346-25	0.338	0.263
67	25.03	5:1 6:3	107 109 147	0.5513	234-35; 235-34; 2356-24	0.071	0.059
68	25.12	5:1	123	0.5533	345-24	0.019	0.016
69	25.22	5:1 6:3	106 118 139 149	0.5555	2345-3; 245-34; 2346-24; 236-245	2.190	1.820
70	25.33	6:3	140		234-246	-	-
71	25.61	5:1 6:3	114 134 143	0.5641	2345-4; 2356-23; 2345-26	0.093	0.075
72	25.80	5:1 6:3	122 131 133 142	0.5683	345-23; 2346-23; 235-235; 23456-2	0.010	0.008
73	26.08	6:2	146 165 188	0.5744	235-245; 2356-35; 2356-246	0.223	0.173
74	26.20	5:1 6:3	105 132 161	0.5771	234-34; 234-236; 2346-35	0.733	0.591
75	26.36	6:2	153	0.5806	245-245	1.623	1.261
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141	0.5919	2345-25	0.978	0.760
78	26.94	7:4	179	0.5934	2356-236	0.876	0.622
79	27.13	6:2	137	0.5976	2345-24	0.026	0.020
80	27.28	6:2 7:4	130 176	0.6009	234-235; 2346-236	0.138	0.107
82	27.50	6:2	138 163 164	0.6057	234-245; 2356-34; 236-345	1.450	1.127
83	27.68	6:2	158 160 186	0.6097	2346-34; 23456-3; 23456-26	0.120	0.093
84	27.87	6:2	126 129	0.6139	345-34; 2345-23	0.004	0.003
85	28.21	7:3	166 178	0.6214	23456-4; 2356-235	0.675	0.479
87	28.50	7:3	175 159	0.6278	2346-235; 2345-35	0.102	0.073
88	28.64	7:3	182 187	0.6308	2345-246; 2356-245	2.140	1.518
89	28.75	6:2	128 162	0.6333	234-234; 235-345	0.045	0.035
90	28.94	7:3	183	0.6374	2346-245	0.963	0.683
91	29.18	6:1	167	0.6427	245-345	0.017	0.014
92	29.52	7:3	185	0.6502	23456-25	0.283	0.201
93	29.88	7:3	174 181	0.6581	2345-236; 23456-24	1.856	1.320
94	30.14	7:3	177	0.6639	2356-234	0.984	0.700
95	30.43	6:1 7:3	156 171	0.6703	2345-34; 2346-234	0.440	0.323
96	30.69	8:4	157 202	0.6760	234-345; 2356-2356	0.042	0.027
98	30.86	7:3	173	0.6797	23456-23	0.023	0.016
99	31.20	8:4	201	0.6872	2346-2356	0.223	0.145
100	31.45	7:2	172 204	0.6927	2345-235; 23456-246	0.315	0.224
101	31.72	8:4	192 197	0.6987	23456-35; 2346-2346	0.069	0.045
102	31.91	7:2	180	0.7029	2345-245	3.489	2.475
103	32.14	7:2	193	0.7079	2356-345	0.235	0.166
104	32.43	7:2	191	0.7143	2346-345	0.066	0.047
105	32.78	8:4	200 169	0.7220	23456-236; 345-345	0.261	0.170
106	33.89	7:2	170	0.7465	2345-234	0.708	0.502

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.14	7:2	<b>190</b>	0.7520	23456-34	0.220	0.156
108	34.99	8:3	<b>198</b>	0.7707	23456-235	0.053	0.035
109	35.21	8:3	<b>199</b>	0.7756	2345-2356	2.514	1.640
110	35.73	8:3	<b>196 203</b>	0.7870	2345-2346; 23456-245	2.532	1.652
111	36.84	7:1	<b>189</b>	0.8115	2345-345	0.017	0.012
112	38.35	8:3	<b>195</b>	0.8447	23456-234	0.305	0.199
113	38.84	9:4	<b>208</b>	0.8555	23456-2356	0.156	0.094
114	39.75	9:4	<b>207</b>	0.8756	23456-2346	0.067	0.040
115	41.12	8:2	<b>194</b>	0.9057	2345-2345	1.034	0.675
116	41.97	8:2	<b>205</b>	0.9244	23456-345	0.060	0.039
117	46.93	9:3	<b>206</b>	1.034	23456-2345	0.414	0.250
118	52.76	10:4	<b>209</b>	1.162	23456-23456	0.000	0.000

Concentration = 120 ng/mL

Total Nanomoles = 0.427

Average Molecular Weight = 280.4

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

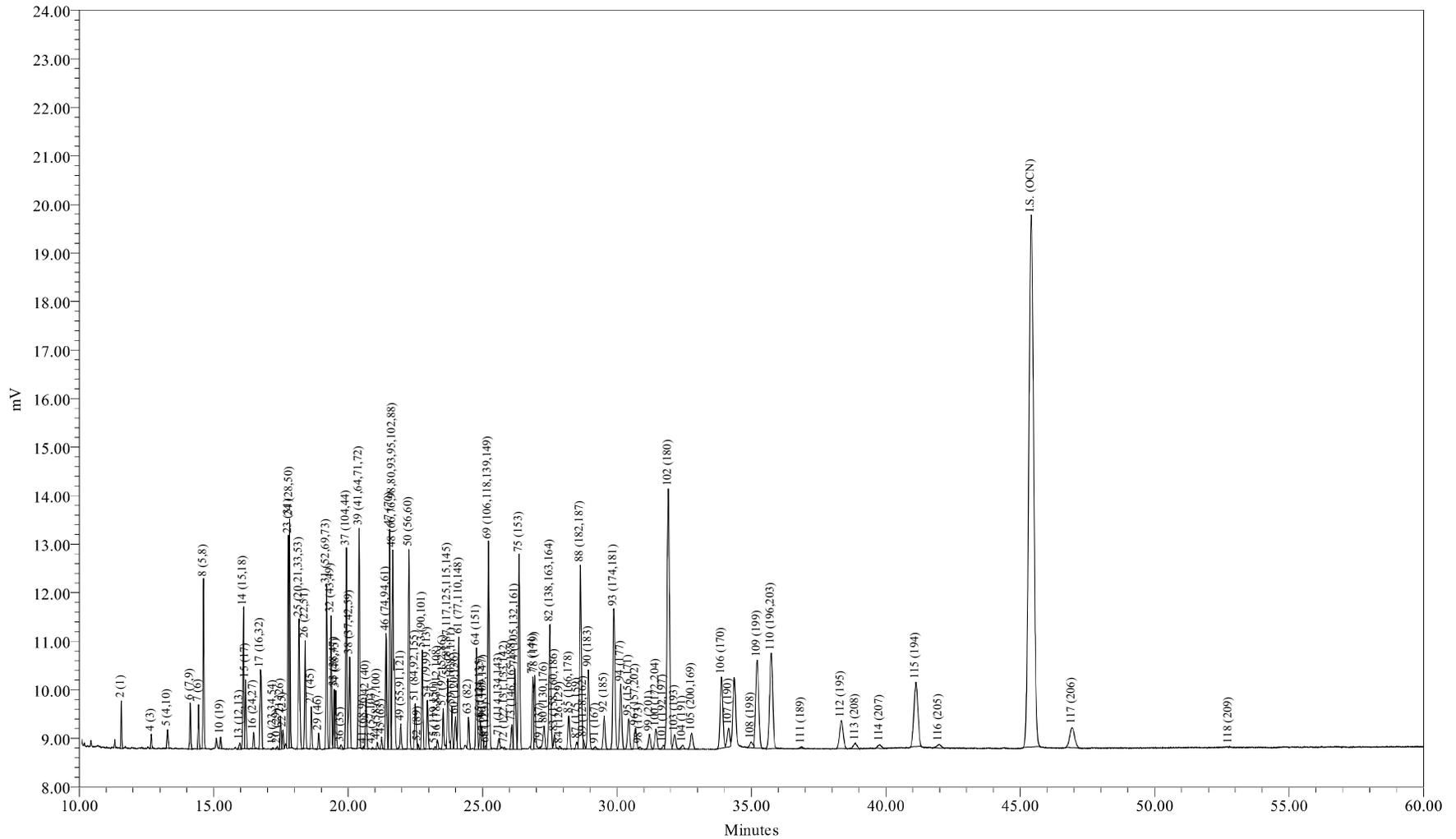
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Sample Name: CCCS0601C  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 06/02/2009 10:18:21 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-74-17

Sample Name: CCCS0601C

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 10:18:21  
 Lab Sample ID: CCCS0601C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-74-17

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 113 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.23	16.71
Di	12.38	15.50
Tri	18.03	19.63
Tetra	21.24	20.48
Penta	8.34	7.13
Hexa	7.95	6.23
Hepta	13.11	9.32
Octa	7.09	4.63
Nona	0.62	0.38
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.5749	38.3	31.2
A1242	23+24/31+28	5.7190	28.9	23.5
A1254SED	61/100	1.4230	7.20	
A1254BIO	69+75+82/149+153+138	5.9575		24.5
A1260	102/180	3.9360	19.9	16.2
A1268	115/194	1.1222	5.67	4.62

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 2.11

Total Cl / biphenyl Residue = 3.67

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 10:18:21  
 Lab Sample ID: CCCS0601C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-74-17

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.57	188.7	1804	7.57	40.1			
3	12.58	188.7		-	-			
4	12.68	188.7	628	5.09	27.0			
5	13.28	223.1	1054	1.93	8.65			
6	14.13	223.1	2690	0.722	3.23			
7	14.43	223.1	2121	1.15	5.17			
8	14.62	223.1	8943	9.30	41.7			
9	15.18	223.1		-	-			
10	15.25	257.5	585	0.205	0.795			
11	15.72	257.5		-	-			
12	15.78	223.1		-	-			
13	15.97	223.1	467	0.165	0.738			
14	16.11	249.0	8462	2.79	11.2			
15	16.19	257.5	3763	2.61	10.1			
16	16.48	257.5	879	0.187	0.727			
17	16.74	257.5	7256	2.85	11.1			
19	17.21	267.9	65	0.0211	0.0788			
20	17.37	257.5	157	0.0306	0.119			
21	17.49	257.5	1914	0.565	2.19			
22	17.58	257.5	1054	0.238	0.924			
23	17.77	257.5	11405	2.77	10.8			
24	17.82	257.5	13551	2.94	11.4			
25	18.17	259.5	9882	2.79	10.7			
26	18.40	258.7	6534	1.93	7.46			
27	18.63	292.0	2433	0.645	2.21			
28	18.77	257.5		-	-			
29	18.90	292.0	920	0.273	0.935			
30	19.03	257.5		-	-			
31	19.20	292.0	10129	3.68	12.6			
32	19.36	292.0	8315	1.51	5.17			
33	19.48	292.0	3698	0.472	1.62			
34	19.54	292.0	3577	0.633	2.17			
35	19.68	292.0		-	-			
36	19.73	257.5	327	0.144	0.559			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.93	292.0	12669	2.94	10.1			
38	20.06	272.4	7141	2.06	7.55			
39	20.40	292.0	14077	2.53	8.66			
41	20.58	326.4	134	0.0414	0.127			
42	20.66	292.0	3193	0.693	2.37			
43	20.90	298.9	73	0.0164	0.0549			
44	21.08	298.9	401	0.0598	0.200			
45	21.24	292.0	709	0.108	0.370			
46	21.41	292.0	7634	0.922	3.16			
47	21.54	292.0	14425	2.20	7.54			
48	21.66	293.5	19143	4.38	14.9			
49	21.96	324.7	1810	0.351	1.08			
50	22.26	292.0	13130	1.96	6.73			
51	22.50	326.4	3703	1.47	4.49			
52	22.60	326.4	293	0.0570	0.175			
53	22.76	326.4	6734	1.24	3.79			
54	22.95	326.4	3266	0.384	1.18			
55	23.24	326.4	184	0.0140	0.0430			
56	23.32	326.4	600	0.117	0.359			
57	23.53	326.4	2942	0.401	1.23			
58	23.71	326.4	5126	0.829	2.54			
59	23.86	326.4	2775	0.364	1.12			
60	23.99	360.9	2761	0.441	1.22			
61	24.11	326.4	7768	1.42	4.36			
62	24.39	360.9	-	-	-			
63	24.48	326.4	2132	0.315	0.964			
64	24.78	360.9	6926	1.16	3.20			
65	24.91	350.5	1972	0.186	0.530			
66	24.97	360.9	1615	0.423	1.17			
67	25.03	336.8	448	0.0857	0.255			
68	25.12	326.4	173	0.0282	0.0865			
69	25.22	337.5	16625	2.50	7.41			
70	25.33	360.9	-	-	-			
71	25.61	347.8	834	0.112	0.321			
72	25.81	336.8	131	0.0112	0.0333			
73	26.09	360.9	1763	0.241	0.668			
74	26.20	347.8	7520	0.830	2.39			
75	26.36	360.9	14915	1.82	5.06			
76	26.47	360.9	-	-	-			
77	26.87	360.9	5743	1.12	3.10			
78	26.94	395.3	6060	0.989	2.50			
79	27.14	360.9	90	0.0229	0.0634			
80	27.29	360.9	2179	0.154	0.427			
82	27.51	360.9	12683	1.63	4.52			
83	27.68	360.9	1167	0.130	0.359			
84	27.88	360.9	196	0.00530	0.0147			
85	28.21	395.3	2997	0.722	1.83			
87	28.51	395.3	563	0.123	0.312			
88	28.64	395.3	17828	2.38	6.03			
89	28.74	360.9	635	0.0616	0.171			
90	28.94	395.3	7852	1.09	2.75			
91	29.20	360.9	257	0.0235	0.0652			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.52	394.3	3373	0.318	0.806			
93	29.89	394.3	15076	2.07	5.26			
94	30.14	394.3	7090	1.09	2.77			
95	30.43	382.2	3428	0.477	1.25			
96	30.69	429.8	2223	0.0448	0.104			
98	30.83	395.3	207	0.0219	0.0554			
99	31.20	429.8	1725	0.251	0.585			
100	31.45	395.3	2273	0.343	0.869			
101	31.71	429.8	423	0.0752	0.175			
102	31.91	395.3	33671	3.94	9.96			
103	32.15	395.3	1882	0.275	0.696			
104	32.43	395.3	460	0.0696	0.176			
105	32.78	429.8	2109	0.281	0.654			
106	33.89	395.3	10345	0.789	2.00			
107	34.15	395.3	2578	0.240	0.607			
108	34.99	429.8	885	0.0699	0.163			
109	35.21	429.8	14239	2.83	6.58			
110	35.74	429.8	15872	2.89	6.73			
111	36.86	395.3	151	0.0110	0.0279			
112	38.35	429.8	5171	0.346	0.804			
113	38.87	464.2	980	0.189	0.406			
114	39.78	464.2	652	0.0614	0.132			
115	41.12	429.8	13730	1.12	2.61			
116	41.97	429.8	797	0.0786	0.183			
117	46.92	464.2	5212	0.454	0.978			
118	52.76	498.6	5	0.000189	0.000379			

Total Concentration = 113 ng/mL

Total Nanomoles = 0.402

Average Molecular Weight = 280.7

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.40 minutes

Internal Standard Peak Area = 138779.5

Northeast Analytical, Inc.  
 2190 Technology Drive  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 06/02/2009 10:18:21  
 Lab Sample ID: CCCS0601C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-74-17

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	6.720	9.995
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003	0.2793	4	4.514	6.714
5	13.28	2:2	004 010	0.2925	2-2; 26	1.712	2.154
6	14.13	2:1	007 009	0.3112	24; 25	0.640	0.805
7	14.43	2:1	006	0.3178	2-3	1.023	1.288
8	14.62	2:1	005 008	0.3220	23; 2-4	8.249	10.378
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3359	26-2	0.182	0.198
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.97	2:0	012 013	0.3518	34; 3-4	0.146	0.184
14	16.11	2:0 3:2	015 018	0.3548	4-4; 25-2	2.472	2.786
15	16.19	3:2	017	0.3566	24-2	2.313	2.521
16	16.48	3:2	024 027	0.3630	236; 26-3	0.166	0.181
17	16.74	3:2	016 032	0.3687	23-2; 26-4	2.526	2.753
19	17.21	3:1 4:4	023 034 054	0.3791	235; 35-2; 26-26	0.019	0.020
20	17.37	3:1	029	0.3826	245	0.027	0.030
21	17.49	3:1	026	0.3852	25-3	0.501	0.546
22	17.58	3:1	025	0.3872	24-3	0.211	0.230
23	17.77	3:1	031	0.3914	25-4	2.461	2.683
24	17.82	3:1 4:3	028 050	0.3925	24-4; 246-2	2.612	2.847
25	18.17	3:1 4:3	020 021 033 053	0.4002	23-3; 234; 34-2; 25-26	2.474	2.676
26	18.40	3:1 4:3	022 051	0.4053	23-4; 24-26	1.712	1.857
27	18.63	4:3	045	0.4104	236-2	0.572	0.550
28	18.77	3:0	036		35-3	-	-
29	18.90	4:3	046	0.4163	23-26	0.242	0.233
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4229	25-25; 246-3; 26-35	3.261	3.135
32	19.36	4:2	043 049	0.4264	235-2; 24-25	1.340	1.288
33	19.48	4:2	038 047	0.4291	345; 24-24	0.419	0.403
34	19.54	4:2	048 075	0.4304	245-2; 246-4	0.562	0.540
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.73	3:0	035	0.4346	34-3	0.128	0.139
37	19.93	5:4 4:2	104 044	0.4390	246-26; 23-25	2.608	2.506
38	20.06	3:0 4:2	037 042 059	0.4419	34-4; 23-24; 236-3	1.825	1.881
39	20.40	4:2	041 064 071 072	0.4493	234-2; 236-4; 26-34; 25-35	2.243	2.156

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.58	5:4	068 096	0.4533	24-35; 236-26	0.037	0.032
42	20.66	4:2	040	0.4551	23-23	0.615	0.591
43	20.90	4:1 5:3	057 103	0.4604	235-3; 246-25	0.015	0.014
44	21.08	4:1 5:3	058 067 100	0.4643	23-35; 245-3; 246-24	0.053	0.050
45	21.24	4:1	063	0.4678	235-4	0.096	0.092
46	21.41	4:1 5:3	074 094 061	0.4716	245-4; 235-26; 2345	0.818	0.786
47	21.54	4:1	070	0.4744	25-34	1.953	1.878
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4771	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.887	3.717
49	21.96	4:1 5:3	055 091 121	0.4837	234-3; 236-24; 246-35	0.311	0.269
50	22.26	4:1	056 060	0.4903	23-34; 234-4	1.743	1.675
51	22.50	5:3 6:4	084 092 155	0.4956	236-23; 235-25; 246-246	1.300	1.118
52	22.60	5:3	089	0.4978	234-26	0.051	0.043
53	22.76	5:2	090 101	0.5013	235-24; 245-25	1.098	0.944
54	22.95	5:2	079 099 113	0.5055	34-35; 245-24; 236-35	0.341	0.293
55	23.24	5:2 6:4	119 150	0.5119	246-34; 236-246	0.012	0.011
56	23.32	5:2	078 083 112 108	0.5137	345-3; 235-23; 2356-3; 2346-3	0.104	0.089
57	23.53	5:2 6:4	097 152 086	0.5183	245-23; 2356-26; 2345-2	0.356	0.306
58	23.71	5:2	081 087 117 125 115 145	0.5222	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.736	0.633
59	23.86	5:2	116 085 111	0.5256	23456; 234-24; 235-35	0.323	0.278
60	23.99	6:4	120 136	0.5284	245-35; 236-236	0.391	0.304
61	24.11	5:2	077 110 148	0.5311	34-34; 236-34; 235-246	1.262	1.086
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5392	234-23	0.279	0.240
64	24.78	6:3	151	0.5458	2356-25	1.026	0.798
65	24.91	5:1 6:3	124 135	0.5487	345-25; 235-236	0.165	0.132
66	24.97	6:3	144	0.5500	2346-25	0.375	0.292
67	25.03	5:1 6:3	107 109 147	0.5513	234-35; 235-34; 2356-24	0.076	0.063
68	25.12	5:1	123	0.5533	345-24	0.025	0.022
69	25.22	5:1 6:3	106 118 139 149	0.5555	2345-3; 245-34; 2346-24; 236-245	2.219	1.845
70	25.33	6:3	140		234-246	-	-
71	25.61	5:1 6:3	114 134 143	0.5641	2345-4; 2356-23; 2345-26	0.099	0.080
72	25.81	5:1 6:3	122 131 133 142	0.5685	345-23; 2346-23; 235-235; 23456-2	0.010	0.008
73	26.09	6:2	146 165 188	0.5747	235-245; 2356-35; 2356-246	0.214	0.166
74	26.20	5:1 6:3	105 132 161	0.5771	234-34; 234-236; 2346-35	0.737	0.595
75	26.36	6:2	153	0.5806	245-245	1.619	1.259
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141	0.5919	2345-25	0.991	0.771
78	26.94	7:4	179	0.5934	2356-236	0.878	0.623
79	27.14	6:2	137	0.5978	2345-24	0.020	0.016
80	27.29	6:2 7:4	130 176	0.6011	234-235; 2346-236	0.137	0.106
82	27.51	6:2	138 163 164	0.6059	234-245; 2356-34; 236-345	1.447	1.126
83	27.68	6:2	158 160 186	0.6097	2346-34; 23456-3; 23456-26	0.115	0.090
84	27.88	6:2	126 129	0.6141	345-34; 2345-23	0.005	0.004
85	28.21	7:3	166 178	0.6214	23456-4; 2356-235	0.641	0.455
87	28.51	7:3	175 159	0.6280	2346-235; 2345-35	0.109	0.078
88	28.64	7:3	182 187	0.6308	2345-246; 2356-245	2.115	1.502
89	28.74	6:2	128 162	0.6330	234-234; 235-345	0.055	0.043
90	28.94	7:3	183	0.6374	2346-245	0.965	0.685
91	29.20	6:1	167	0.6432	245-345	0.021	0.016
92	29.52	7:3	185	0.6502	23456-25	0.282	0.201
93	29.89	7:3	174 181	0.6584	2345-236; 23456-24	1.839	1.309
94	30.14	7:3	177	0.6639	2356-234	0.970	0.691
95	30.43	6:1 7:3	156 171	0.6703	2345-34; 2346-234	0.423	0.311
96	30.69	8:4	157 202	0.6760	234-345; 2356-2356	0.040	0.026
98	30.83	7:3	173	0.6791	23456-23	0.019	0.014
99	31.20	8:4	201	0.6872	2346-2356	0.223	0.146
100	31.45	7:2	172 204	0.6927	2345-235; 23456-246	0.305	0.216
101	31.71	8:4	192 197	0.6985	23456-35; 2346-2346	0.067	0.044
102	31.91	7:2	180	0.7029	2345-245	3.492	2.479
103	32.15	7:2	193	0.7081	2356-345	0.244	0.173
104	32.43	7:2	191	0.7143	2346-345	0.062	0.044
105	32.78	8:4	200 169	0.7220	23456-236; 345-345	0.249	0.163
106	33.89	7:2	170	0.7465	2345-234	0.700	0.497

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>	0.7522	23456-34	0.213	0.151
108	34.99	8:3	<b>198</b>	0.7707	23456-235	0.062	0.040
109	35.21	8:3	<b>199</b>	0.7756	2345-2356	2.511	1.639
110	35.74	8:3	<b>196 203</b>	0.7872	2345-2346; 23456-245	2.568	1.677
111	36.86	7:1	<b>189</b>	0.8119	2345-345	0.010	0.007
112	38.35	8:3	<b>195</b>	0.8447	23456-234	0.307	0.200
113	38.87	9:4	<b>208</b>	0.8562	23456-2356	0.167	0.101
114	39.78	9:4	<b>207</b>	0.8762	23456-2346	0.054	0.033
115	41.12	8:2	<b>194</b>	0.9057	2345-2345	0.995	0.650
116	41.97	8:2	<b>205</b>	0.9244	23456-345	0.070	0.046
117	46.92	9:3	<b>206</b>	1.033	23456-2345	0.403	0.243
118	52.76	10:4	<b>209</b>	1.162	23456-23456	0.000	0.000

Concentration = 113 ng/mL

Total Nanomoles = 0.402

Average Molecular Weight = 280.7

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



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Phone:(518) 346-4592 Fax:(518) 381-6055

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Sample Name: CCCS0531A Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 05/31/2009 10:22:41 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 06/01/2009 13:17:40  
Sample Set Name: GC24\_nea\_053109e User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_051909 Current Time: 21:35:58  
Run Time: 60 Minutes Current Date: 06/02/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-73-2

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.57	1776	7.515	7.515
2	4 (3)	12.68	578	4.720	4.720
3	5 (4,10)	13.28	1081	1.996	1.996
4	6 (7,9)	14.13	2676	0.723	0.723
5	7 (6)	14.43	2143	1.174	1.174
6	8 (5,8)	14.62	9003	9.433	9.433
7	10 (19)	15.25	598	0.211	0.211
8	13 (12,13)	15.97	506	0.180	0.180
9	14 (15,18)	16.11	8490	2.817	2.817
10	15 (17)	16.19	3823	2.669	2.669
11	16 (24,27)	16.49	933	0.200	0.200
12	17 (16,32)	16.74	7314	2.892	2.892
13	19 (23,34,54)	17.18	73	0.024	0.024
14	20 (29)	17.36	190	0.037	0.037
15	21 (26)	17.49	1917	0.570	0.570
16	22 (25)	17.58	1068	0.243	0.243
17	23 (31)	17.77	11536	2.828	2.828
18	24 (28,50)	17.82	13520	2.960	2.960
19	25 (20,21,33,53)	18.17	9934	2.824	2.824
20	26 (22,51)	18.40	6571	1.955	1.955
21	27 (45)	18.63	2567	0.686	0.686
22	29 (46)	18.90	989	0.296	0.296
23	31 (52,69,73)	19.20	10171	3.719	3.719
24	32 (43,49)	19.36	8355	1.530	1.530
25	33 (38,47)	19.48	3664	0.471	0.471
26	34 (48,75)	19.54	3633	0.648	0.648
27	36 (35)	19.76	146	0.065	0.065
28	37 (104,44)	19.93	12733	2.977	2.977
29	38 (37,42,59)	20.06	7252	2.106	2.106
30	39 (41,64,71,72)	20.40	14280	2.584	2.584
31	41 (68,96)	20.57	168	0.053	0.053
32	42 (40)	20.67	3251	0.711	0.711
33	43 (57,103)	20.91	133	0.030	0.030

CCCS0531A

1 of 3

Print Date: 06/02/2009  
Nea Lims Version : 4.4.4.1

34	44 (58,67,100)	21.08	489	0.073	0.073
35	45 (63)	21.24	758	0.116	0.116
36	46 (74,94,61)	21.41	7617	0.927	0.927
37	47 (70)	21.55	14470	2.226	2.226
38	48 (66,76,98,80,93,95,	21.66	19112	4.407	4.407
39	49 (55,91,121)	21.96	1661	0.324	0.324
40	50 (56,60)	22.26	13334	2.011	2.011
41	51 (84,92,155)	22.50	3733	1.489	1.489
42	52 (89)	22.60	327	0.064	0.064
43	53 (90,101)	22.76	6855	1.269	1.269
44	54 (79,99,113)	22.95	3348	0.397	0.397
45	55 (119,150)	23.22	185	0.014	0.014
46	56 (78,83,112,108)	23.32	660	0.130	0.130
47	57 (97,152,86)	23.53	3048	0.419	0.419
48	58 (81,87,117,125,115)	23.71	5225	0.852	0.852
49	59 (116,85,111)	23.86	2842	0.376	0.376
50	60 (120,136)	23.99	2831	0.456	0.456
51	61 (77,110,148)	24.11	7865	1.452	1.452
52	63 (82)	24.48	2208	0.328	0.328
53	64 (151)	24.78	6922	1.164	1.164
54	65 (124,135)	24.91	2043	0.194	0.194
55	66 (144)	24.97	1528	0.403	0.403
56	67 (107,109,147)	25.03	533	0.103	0.103
57	68 (123)	25.13	184	0.030	0.030
58	69 (106,118,139,149)	25.22	16738	2.538	2.538
59	71 (114,134,143)	25.61	792	0.107	0.107
60	72 (122,131,133,142)	25.82	121	0.010	0.010
61	73 (146,165,188)	26.09	1776	0.245	0.245
62	74 (105,132,161)	26.21	7536	0.838	0.838
63	75 (153)	26.36	15019	1.851	1.851
64	77 (141)	26.87	5731	1.123	1.123
65	78 (179)	26.94	6241	1.027	1.027
66	79 (137)	27.14	166	0.044	0.044
67	80 (130,176)	27.29	2313	0.165	0.165
68	82 (138,163,164)	27.50	13019	1.688	1.688
69	83 (158,160,186)	27.68	1427	0.160	0.160
70	84 (126,129)	27.88	300	0.008	0.008
71	85 (166,178)	28.21	3187	0.774	0.774
72	87 (175,159)	28.50	653	0.144	0.144
73	88 (182,187)	28.65	18262	2.462	2.462
74	89 (128,162)	28.74	698	0.068	0.068
75	90 (183)	28.94	8100	1.131	1.131
76	91 (167)	29.20	366	0.034	0.034
77	92 (185)	29.52	3504	0.333	0.333
78	93 (174,181)	29.88	15455	2.142	2.142
79	94 (177)	30.14	7287	1.133	1.133
80	95 (156,171)	30.43	3607	0.506	0.506
81	96 (157,202)	30.68	2364	0.048	0.048
82	98 (173)	30.84	259	0.028	0.028
83	99 (201)	31.21	1737	0.255	0.255
84	100 (172,204)	31.45	2438	0.371	0.371

85	101 (192,197)	31.74	479	0.086	0.086
86	102 (180)	31.91	34182	4.027	4.027
87	103 (193)	32.15	1927	0.283	0.283
88	104 (191)	32.43	584	0.089	0.089
89	105 (200,169)	32.78	2189	0.294	0.294
90	106 (170)	33.89	10819	0.832	0.832
91	107 (190)	34.15	3104	0.290	0.290
92	108 (198)	34.99	1178	0.094	0.094
93	109 (199)	35.21	14791	2.963	2.963
94	110 (196,203)	35.73	16095	2.958	2.958
95	111 (189)	36.86	218	0.016	0.016
96	112 (195)	38.35	5276	0.355	0.355
97	113 (208)	38.86	914	0.177	0.177
98	114 (207)	39.77	670	0.064	0.064
99	115 (194)	41.12	14312	1.179	1.179
100	116 (205)	41.99	741	0.074	0.074
101	117 (206)	46.92	5462	0.479	0.479
102	118 (209)	52.77	14	0.001	0.001
103	Sum			114.564	114.564



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Sample Name: CCCS0531B Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 05/31/2009 21:34:42 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 06/01/2009 08:33:38  
Sample Set Name: GC24\_nea\_053109e User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_051909 Current Time: 21:35:59  
Run Time: 60 Minutes Current Date: 06/02/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-73-12

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.57	1858	7.623	7.623
2	4 (3)	12.68	674	5.333	5.333
3	5 (4,10)	13.28	1154	2.067	2.067
4	6 (7,9)	14.13	2803	0.735	0.735
5	7 (6)	14.43	2234	1.188	1.188
6	8 (5,8)	14.62	9291	9.442	9.442
7	10 (19)	15.25	666	0.228	0.228
8	13 (12,13)	15.98	511	0.176	0.176
9	14 (15,18)	16.11	8882	2.859	2.859
10	15 (17)	16.19	3958	2.681	2.681
11	16 (24,27)	16.49	941	0.196	0.196
12	17 (16,32)	16.74	7594	2.913	2.913
13	19 (23,34,54)	17.20	120	0.038	0.038
14	20 (29)	17.37	210	0.040	0.040
15	21 (26)	17.49	2040	0.589	0.589
16	22 (25)	17.58	1128	0.249	0.249
17	23 (31)	17.78	12355	2.940	2.940
18	24 (28,50)	17.82	13951	2.963	2.963
19	25 (20,21,33,53)	18.17	10467	2.887	2.887
20	26 (22,51)	18.40	6996	2.020	2.020
21	27 (45)	18.63	2682	0.695	0.695
22	29 (46)	18.90	1091	0.317	0.317
23	31 (52,69,73)	19.20	10756	3.817	3.817
24	32 (43,49)	19.36	8853	1.573	1.573
25	33 (38,47)	19.48	3912	0.488	0.488
26	34 (48,75)	19.54	3928	0.680	0.680
27	36 (35)	19.73	359	0.154	0.154
28	37 (104,44)	19.93	13341	3.026	3.026
29	38 (37,42,59)	20.06	7784	2.194	2.194
30	39 (41,64,71,72)	20.40	15034	2.640	2.640
31	41 (68,96)	20.57	211	0.064	0.064
32	42 (40)	20.67	3464	0.735	0.735
33	43 (57,103)	20.91	173	0.038	0.038

CCCS0531B

1 of 3

Print Date: 06/02/2009  
Nea Lims Version : 4.4.4.1

34	44 (58,67,100)	21.09	579	0.084	0.084
35	45 (63)	21.24	866	0.129	0.129
36	46 (74,94,61)	21.41	8011	0.946	0.946
37	47 (70)	21.54	15105	2.254	2.254
38	48 (66,76,98,80,93,95,	21.66	20049	4.486	4.486
39	49 (55,91,121)	21.96	1957	0.371	0.371
40	50 (56,60)	22.26	13808	2.020	2.020
41	51 (84,92,155)	22.50	3925	1.518	1.518
42	52 (89)	22.61	354	0.067	0.067
43	53 (90,101)	22.76	7173	1.289	1.289
44	54 (79,99,113)	22.95	3519	0.405	0.405
45	55 (119,150)	23.23	222	0.017	0.017
46	56 (78,83,112,108)	23.32	683	0.130	0.130
47	57 (97,152,86)	23.54	3153	0.420	0.420
48	58 (81,87,117,125,115)	23.71	5430	0.859	0.859
49	59 (116,85,111)	23.86	2997	0.385	0.385
50	60 (120,136)	23.99	2989	0.467	0.467
51	61 (77,110,148)	24.11	8187	1.466	1.466
52	63 (82)	24.48	2334	0.337	0.337
53	64 (151)	24.78	7251	1.183	1.183
54	65 (124,135)	24.91	2115	0.195	0.195
55	66 (144)	24.97	1668	0.426	0.426
56	67 (107,109,147)	25.02	570	0.107	0.107
57	68 (123)	25.12	216	0.034	0.034
58	69 (106,118,139,149)	25.22	17501	2.575	2.575
59	71 (114,134,143)	25.61	1001	0.131	0.131
60	72 (122,131,133,142)	25.82	256	0.021	0.021
61	73 (146,165,188)	26.08	1978	0.264	0.264
62	74 (105,132,161)	26.21	7985	0.862	0.862
63	75 (153)	26.36	15749	1.884	1.884
64	77 (141)	26.87	6151	1.170	1.170
65	78 (179)	26.94	6503	1.038	1.038
66	79 (137)	27.16	211	0.054	0.054
67	80 (130,176)	27.29	2560	0.177	0.177
68	82 (138,163,164)	27.50	13592	1.710	1.710
69	83 (158,160,186)	27.68	1531	0.167	0.167
70	84 (126,129)	27.88	398	0.011	0.011
71	85 (166,178)	28.21	3353	0.791	0.791
72	87 (175,159)	28.49	731	0.156	0.156
73	88 (182,187)	28.64	19016	2.487	2.487
74	89 (128,162)	28.75	598	0.057	0.057
75	90 (183)	28.94	8378	1.134	1.134
76	91 (167)	29.20	402	0.036	0.036
77	92 (185)	29.52	3617	0.333	0.333
78	93 (174,181)	29.88	15949	2.144	2.144
79	94 (177)	30.14	7613	1.148	1.148
80	95 (156,171)	30.43	3783	0.515	0.515
81	96 (157,202)	30.69	2560	0.050	0.050
82	98 (173)	30.86	287	0.030	0.030
83	99 (201)	31.21	1817	0.259	0.259
84	100 (172,204)	31.44	2536	0.375	0.375

85	101 (192,197)	31.74	448	0.078	0.078
86	102 (180)	31.91	35246	4.028	4.028
87	103 (193)	32.15	1972	0.281	0.281
88	104 (191)	32.43	559	0.083	0.083
89	105 (200,169)	32.78	2341	0.305	0.305
90	106 (170)	33.89	11222	0.837	0.837
91	107 (190)	34.14	3158	0.287	0.287
92	108 (198)	34.98	1092	0.084	0.084
93	109 (199)	35.22	15149	2.943	2.943
94	110 (196,203)	35.74	16625	2.964	2.964
95	111 (189)	36.88	263	0.019	0.019
96	112 (195)	38.35	5538	0.362	0.362
97	113 (208)	38.87	1029	0.194	0.194
98	114 (207)	39.76	751	0.069	0.069
99	115 (194)	41.12	14851	1.187	1.187
100	116 (205)	41.96	705	0.068	0.068
101	117 (206)	46.93	5664	0.482	0.482
102	118 (209)	52.76	11	0.001	0.001
103	Sum			117.029	117.029



Sample Name:	CCCS0601B	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	06/01/2009 23:22:21	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	06/02/2009 15:58:44
Sample Set Name:	GC24_060109b	User Name:	Milca Mercado-Olivieri
Processing Method:	CSGB_LL1X_051909	Current Time:	21:36:00
Run Time:	60 Minutes	Current Date:	06/02/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC24-74-7

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.57	1770	7.862	7.862
2	4 (3)	12.68	690	5.901	5.901
3	5 (4,10)	13.28	1081	2.096	2.096
4	6 (7,9)	14.13	2723	0.773	0.773
5	7 (6)	14.43	2145	1.235	1.235
6	8 (5,8)	14.62	8940	9.839	9.839
7	10 (19)	15.25	565	0.209	0.209
8	13 (12,13)	15.97	450	0.168	0.168
9	14 (15,18)	16.10	8438	2.941	2.941
10	15 (17)	16.19	3730	2.734	2.734
11	16 (24,27)	16.48	880	0.198	0.198
12	17 (16,32)	16.74	7294	3.029	3.029
13	19 (23,34,54)	17.19	116	0.040	0.040
14	20 (29)	17.37	237	0.049	0.049
15	21 (26)	17.49	1930	0.603	0.603
16	22 (25)	17.57	1027	0.245	0.245
17	23 (31)	17.77	11671	3.007	3.007
18	24 (28,50)	17.82	13206	3.036	3.036
19	25 (20,21,33,53)	18.17	9866	2.946	2.946
20	26 (22,51)	18.40	6415	2.005	2.005
21	27 (45)	18.63	2433	0.682	0.682
22	29 (46)	18.90	972	0.305	0.305
23	31 (52,69,73)	19.20	10161	3.903	3.903
24	32 (43,49)	19.36	8355	1.607	1.607
25	33 (38,47)	19.48	3688	0.498	0.498
26	34 (48,75)	19.54	3540	0.663	0.663
27	36 (35)	19.76	100	0.046	0.046
28	37 (104,44)	19.93	12665	3.111	3.111
29	38 (37,42,59)	20.06	7254	2.213	2.213
30	39 (41,64,71,72)	20.40	14217	2.703	2.703
31	41 (68,96)	20.57	126	0.041	0.041
32	42 (40)	20.67	3223	0.740	0.740
33	43 (57,103)	20.91	131	0.031	0.031

34	44 (58,67,100)	21.09	471	0.074	0.074
35	45 (63)	21.24	795	0.128	0.128
36	46 (74,94,61)	21.41	7569	0.968	0.968
37	47 (70)	21.54	14356	2.319	2.319
38	48 (66,76,98,80,93,95,	21.66	19024	4.609	4.609
39	49 (55,91,121)	21.96	1591	0.326	0.326
40	50 (56,60)	22.26	13043	2.066	2.066
41	51 (84,92,155)	22.50	3645	1.526	1.526
42	52 (89)	22.60	301	0.062	0.062
43	53 (90,101)	22.76	6832	1.329	1.329
44	54 (79,99,113)	22.95	3353	0.418	0.418
45	55 (119,150)	23.23	162	0.013	0.013
46	56 (78,83,112,108)	23.33	600	0.124	0.124
47	57 (97,152,86)	23.53	2956	0.426	0.426
48	58 (81,87,117,125,115)	23.71	5116	0.876	0.876
49	59 (116,85,111)	23.86	2785	0.387	0.387
50	60 (120,136)	23.98	2712	0.458	0.458
51	61 (77,110,148)	24.11	7801	1.513	1.513
52	63 (82)	24.48	2186	0.341	0.341
53	64 (151)	24.77	6837	1.208	1.208
54	65 (124,135)	24.91	2012	0.200	0.200
55	66 (144)	24.97	1465	0.405	0.405
56	67 (107,109,147)	25.03	418	0.085	0.085
57	68 (123)	25.12	130	0.022	0.022
58	69 (106,118,139,149)	25.22	16477	2.624	2.624
59	71 (114,134,143)	25.61	784	0.111	0.111
60	72 (122,131,133,142)	25.80	135	0.012	0.012
61	73 (146,165,188)	26.08	1845	0.267	0.267
62	74 (105,132,161)	26.20	7517	0.878	0.878
63	75 (153)	26.36	15012	1.944	1.944
64	77 (141)	26.87	5690	1.171	1.171
65	78 (179)	26.94	6081	1.050	1.050
66	79 (137)	27.13	112	0.031	0.031
67	80 (130,176)	27.28	2208	0.165	0.165
68	82 (138,163,164)	27.50	12756	1.737	1.737
69	83 (158,160,186)	27.68	1221	0.144	0.144
70	84 (126,129)	27.87	150	0.004	0.004
71	85 (166,178)	28.21	3172	0.809	0.809
72	87 (175,159)	28.50	530	0.123	0.123
73	88 (182,187)	28.64	18106	2.564	2.564
74	89 (128,162)	28.75	528	0.054	0.054
75	90 (183)	28.94	7878	1.154	1.154
76	91 (167)	29.18	217	0.021	0.021
77	92 (185)	29.52	3402	0.339	0.339
78	93 (174,181)	29.88	15279	2.224	2.224
79	94 (177)	30.14	7226	1.179	1.179
80	95 (156,171)	30.43	3580	0.527	0.527
81	96 (157,202)	30.69	2362	0.050	0.050
82	98 (173)	30.86	242	0.027	0.027
83	99 (201)	31.20	1735	0.267	0.267
84	100 (172,204)	31.45	2362	0.378	0.378

85	101 (192,197)	31.72	440	0.083	0.083
86	102 (180)	31.91	33785	4.181	4.181
87	103 (193)	32.14	1820	0.281	0.281
88	104 (191)	32.43	491	0.079	0.079
89	105 (200,169)	32.78	2216	0.313	0.313
90	106 (170)	33.89	10504	0.848	0.848
91	107 (190)	34.14	2682	0.264	0.264
92	108 (198)	34.99	761	0.064	0.064
93	109 (199)	35.21	14320	3.012	3.012
94	110 (196,203)	35.73	15722	3.034	3.034
95	111 (189)	36.84	262	0.021	0.021
96	112 (195)	38.35	5164	0.365	0.365
97	113 (208)	38.84	916	0.187	0.187
98	114 (207)	39.75	799	0.080	0.080
99	115 (194)	41.12	14323	1.240	1.240
100	116 (205)	41.97	694	0.072	0.072
101	117 (206)	46.93	5385	0.496	0.496
102	118 (209)	52.76	6	0.000	0.000
103	Sum			119.821	119.821



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, New York 12308

Phone:(518) 346-4592 Fax:(518) 381-6055

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Sample Name:	CCCS0601C	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	06/02/2009 10:18:21	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	06/02/2009 20:34:40
Sample Set Name:	GC24_060109b	User Name:	Milca Mercado-Olivieri
Processing Method:	CSGB_LL1X_051909	Current Time:	21:36:01
Run Time:	60 Minutes	Current Date:	06/02/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC24-74-17

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.57	1804	7.575	7.575
2	4 (3)	12.68	628	5.088	5.088
3	5 (4,10)	13.28	1054	1.930	1.930
4	6 (7,9)	14.13	2690	0.722	0.722
5	7 (6)	14.43	2121	1.154	1.154
6	8 (5,8)	14.62	8943	9.299	9.299
7	10 (19)	15.25	585	0.205	0.205
8	13 (12,13)	15.97	467	0.165	0.165
9	14 (15,18)	16.11	8462	2.786	2.786
10	15 (17)	16.19	3763	2.608	2.608
11	16 (24,27)	16.48	879	0.187	0.187
12	17 (16,32)	16.74	7256	2.847	2.847
13	19 (23,34,54)	17.21	65	0.021	0.021
14	20 (29)	17.37	157	0.031	0.031
15	21 (26)	17.49	1914	0.565	0.565
16	22 (25)	17.58	1054	0.238	0.238
17	23 (31)	17.77	11405	2.774	2.774
18	24 (28,50)	17.82	13551	2.945	2.945
19	25 (20,21,33,53)	18.17	9882	2.789	2.789
20	26 (22,51)	18.40	6534	1.930	1.930
21	27 (45)	18.63	2433	0.645	0.645
22	29 (46)	18.90	920	0.273	0.273
23	31 (52,69,73)	19.20	10129	3.676	3.676
24	32 (43,49)	19.36	8315	1.511	1.511
25	33 (38,47)	19.48	3698	0.472	0.472
26	34 (48,75)	19.54	3577	0.633	0.633
27	36 (35)	19.73	327	0.144	0.144
28	37 (104,44)	19.93	12669	2.939	2.939
29	38 (37,42,59)	20.06	7141	2.058	2.058
30	39 (41,64,71,72)	20.40	14077	2.528	2.528
31	41 (68,96)	20.58	134	0.041	0.041
32	42 (40)	20.66	3193	0.693	0.693
33	43 (57,103)	20.90	73	0.016	0.016

CCCS0601C

1 of 3

Print Date: 06/02/2009  
Nea Lims Version : 4.4.4.1

34	44 (58,67,100)	21.08	401	0.060	0.060
35	45 (63)	21.24	709	0.108	0.108
36	46 (74,94,61)	21.41	7634	0.922	0.922
37	47 (70)	21.54	14425	2.202	2.202
38	48 (66,76,98,80,93,95,	21.66	19143	4.382	4.382
39	49 (55,91,121)	21.96	1810	0.351	0.351
40	50 (56,60)	22.26	13130	1.965	1.965
41	51 (84,92,155)	22.50	3703	1.466	1.466
42	52 (89)	22.60	293	0.057	0.057
43	53 (90,101)	22.76	6734	1.238	1.238
44	54 (79,99,113)	22.95	3266	0.384	0.384
45	55 (119,150)	23.24	184	0.014	0.014
46	56 (78,83,112,108)	23.32	600	0.117	0.117
47	57 (97,152,86)	23.53	2942	0.401	0.401
48	58 (81,87,117,125,115)	23.71	5126	0.829	0.829
49	59 (116,85,111)	23.86	2775	0.364	0.364
50	60 (120,136)	23.99	2761	0.441	0.441
51	61 (77,110,148)	24.11	7768	1.423	1.423
52	63 (82)	24.48	2132	0.315	0.315
53	64 (151)	24.78	6926	1.156	1.156
54	65 (124,135)	24.91	1972	0.186	0.186
55	66 (144)	24.97	1615	0.423	0.423
56	67 (107,109,147)	25.03	448	0.086	0.086
57	68 (123)	25.12	173	0.028	0.028
58	69 (106,118,139,149)	25.22	16625	2.502	2.502
59	71 (114,134,143)	25.61	834	0.112	0.112
60	72 (122,131,133,142)	25.81	131	0.011	0.011
61	73 (146,165,188)	26.09	1763	0.241	0.241
62	74 (105,132,161)	26.20	7520	0.830	0.830
63	75 (153)	26.36	14915	1.825	1.825
64	77 (141)	26.87	5743	1.118	1.118
65	78 (179)	26.94	6060	0.989	0.989
66	79 (137)	27.14	90	0.023	0.023
67	80 (130,176)	27.29	2179	0.154	0.154
68	82 (138,163,164)	27.51	12683	1.631	1.631
69	83 (158,160,186)	27.68	1167	0.130	0.130
70	84 (126,129)	27.88	196	0.005	0.005
71	85 (166,178)	28.21	2997	0.722	0.722
72	87 (175,159)	28.51	563	0.123	0.123
73	88 (182,187)	28.64	17828	2.384	2.384
74	89 (128,162)	28.74	635	0.062	0.062
75	90 (183)	28.94	7852	1.087	1.087
76	91 (167)	29.20	257	0.024	0.024
77	92 (185)	29.52	3373	0.318	0.318
78	93 (174,181)	29.89	15076	2.073	2.073
79	94 (177)	30.14	7090	1.094	1.094
80	95 (156,171)	30.43	3428	0.477	0.477
81	96 (157,202)	30.69	2223	0.045	0.045
82	98 (173)	30.83	207	0.022	0.022
83	99 (201)	31.20	1725	0.251	0.251
84	100 (172,204)	31.45	2273	0.343	0.343

85	101 (192,197)	31.71	423	0.075	0.075
86	102 (180)	31.91	33671	3.936	3.936
87	103 (193)	32.15	1882	0.275	0.275
88	104 (191)	32.43	460	0.070	0.070
89	105 (200,169)	32.78	2109	0.281	0.281
90	106 (170)	33.89	10345	0.789	0.789
91	107 (190)	34.15	2578	0.240	0.240
92	108 (198)	34.99	885	0.070	0.070
93	109 (199)	35.21	14239	2.830	2.830
94	110 (196,203)	35.74	15872	2.894	2.894
95	111 (189)	36.86	151	0.011	0.011
96	112 (195)	38.35	5171	0.346	0.346
97	113 (208)	38.87	980	0.189	0.189
98	114 (207)	39.78	652	0.061	0.061
99	115 (194)	41.12	13730	1.122	1.122
100	116 (205)	41.97	797	0.079	0.079
101	117 (206)	46.92	5212	0.454	0.454
102	118 (209)	52.76	5	0.000	0.000
103	Sum			112.725	112.725

# QC Sample Raw Data

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050311
ELAP ID No:	11078	LRF ID:	CEBLK-53
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-53(METHOD BLANK)
Sample Wt(Dry)/Vol:	8000 mL	Lab Sample ID:	AM06245B
% Moisture:	100	Lab File ID:	GC16-691-13
Extraction:	Solid Phase Extraction - 8L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	05/30/2009 22:11
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE208_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 161434

Percent Recovery (50 - 150 %): 120

SAMPLE TOTAL PCB CONCENTRATION: <1.00 ng/L U

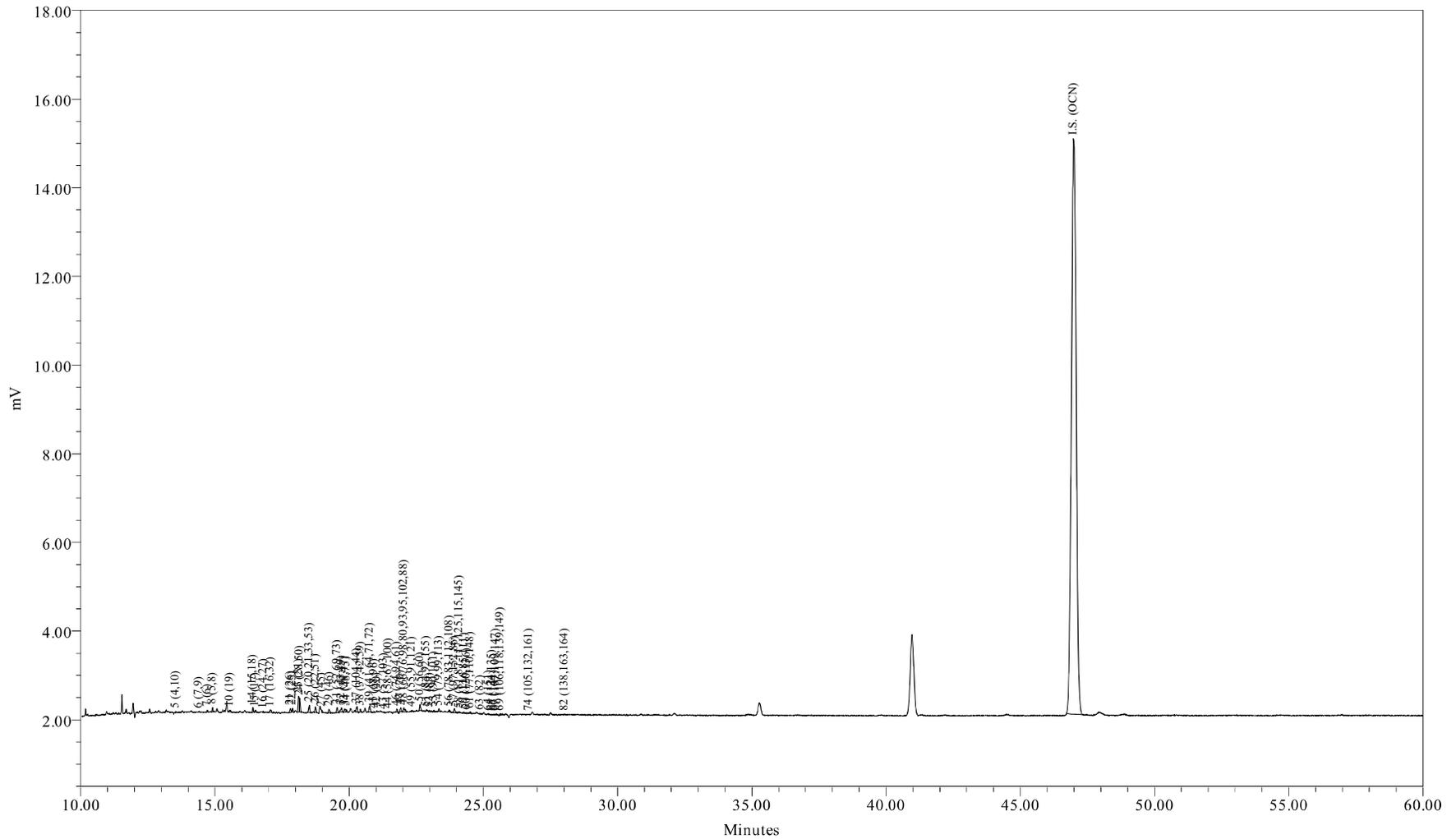
Visual Aroclor ID: None



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: AM06245B  
Sample ID: METHOD BLANK  
Date Acquired: 5/30/2009 10:11:27 PM EDT

Sample Amount (L) : 8.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_050609  
LIMS File ID:

Sample Name: AM06245B

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/30/2009 22:11:27  
 Lab Sample ID: AM06245B  
 LRF ID: CEBLK-53  
 Lab File ID: GC16-691-13

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <1.00 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	4.79	5.59
Tri	61.80	64.25
Tetra	27.28	25.19
Penta	5.28	4.34
Hexa	0.85	0.64
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001		0	0
A1242	23+24/31+28	0.1774	98.4	100
A1254SED	61/100	0.0028	1.58	
A1254BIO	69+75+82/149+153+138			0
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 1.73

Total Cl / biphenyl Residue = 3.30

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/30/2009 22:11:27  
 Lab Sample ID: AM06245B  
 LRF ID: CEBLK-53  
 Lab File ID: GC16-691-13

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7				0.0495	0.274	U
3	12.83	188.7				0.986	125	U
4	12.94	188.7				0.0333	0.160	U
5	13.54	223.1	29			0.0153	0.0777	U
6	14.41	223.1	20			0.00574	0.0274	U
7	14.72	223.1	102	0.0290	0.130	0.00952	0.0434	J
8	14.91	223.1	186			0.0422	0.320	U
9	15.48	223.1				0.0302	3.13	U
10	15.54	257.5	167	0.0347	0.135	0.00277	0.0128	
11	16.03	257.5				0.0281	3.13	U
12	16.09	223.1				0.0332	3.13	U
13	16.30	223.1				0.00671	0.0122	U
14	16.41	249.0	266	0.0447	0.179	0.0133	0.0845	J
15	16.50	257.5	96	0.0350	0.136	0.0185	0.0845	J
16	16.80	257.5	21			0.00424	0.00594	U
17	17.06	257.5	237	0.0477	0.185	0.0126	0.0891	J
19	17.53	267.9				0.0255	3.13	U
20	17.71	257.5				0.00271	0.00271	U
21	17.81	257.5	241	0.0410	0.159	0.00425	0.0164	
22	17.89	257.5	213	0.0278	0.108	0.00326	0.00731	
23	18.12	257.5	1007	0.112	0.437	0.0384	0.0942	
24	18.16	257.5	735	0.0649	0.252	0.0284	0.121	J
25	18.51	259.5	497	0.0642	0.247	0.0175	0.0907	J
26	18.74	258.7	317	0.0451	0.174	0.0140	0.0662	J
27	18.98	292.0	81	0.0100	0.0344	0.00817	0.0203	J
28	19.12	257.5				0.0283	3.13	U
29	19.25	292.0	268	0.0463	0.158	0.0127	0.0127	
30	19.38	257.5				0.0335	3.13	U
31	19.55	292.0	328	0.0480	0.164	0.0180	0.109	J
32	19.71	292.0	341	0.0267	0.0914	0.00923	0.0525	J
33	19.83	292.0	232			0.0122	0.0228	U
34	19.89	292.0	152	0.0122	0.0417	0.00809	0.0228	J
35	20.04	292.0				0.0342	3.13	U
36	20.12	257.5				0.0324	3.13	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0	364	0.0366	0.125	0.0175	0.0982	J
38	20.42	272.4	207	0.0267	0.0981	0.0166	0.0594	J
39	20.77	292.0	401	0.0242	0.0827	0.0130	0.0937	J
41	20.93	326.4	4			0.0259	3.13	U
42	21.03	292.0	4			0.0120	0.0215	U
43	21.29	298.9	3			0.0198	3.13	U
44	21.46	298.9	4			0.00345	0.00503	U
45	21.62	292.0				0.00520	0.00520	U
46	21.78	292.0	218	0.00712	0.0244	0.00685	0.0434	J
47	21.91	292.0	218			0.0159	0.0777	U
48	22.04	293.5	374			0.0596	0.164	U
49	22.33	324.7	54	0.00677	0.0209	0.00312	0.0117	J
50	22.63	292.0	383			0.0301	0.0799	U
51	22.87	326.4	27			0.0150	0.0411	U
52	23.00	326.4	45			0.00741	0.00741	U
53	23.15	326.4	86			0.00631	0.0411	U
54	23.34	326.4	123	0.00565	0.0173	0.00363	0.0169	J
55	23.63	326.4				0.000850	0.00128	U
56	23.72	326.4	93	0.00952	0.0292	0.00458	0.00685	
57	23.91	326.4	296	0.0218	0.0667	0.00746	0.0128	
58	24.10	326.4	104			0.00689	0.0265	U
59	24.27	326.4	56			0.00685	0.0160	U
60	24.39	360.9	12			0.00759	0.0171	U
61	24.51	326.4	77			0.0137	0.0487	U
62	24.79	360.9				0.0312	3.13	U
63	24.88	326.4	33			0.00241	0.0100	U
64	25.19	360.9	53			0.00580	0.0388	U
65	25.32	350.5	40	0.00264	0.00754	0.00185	0.00663	J
66	25.39	360.9	37	0.00526	0.0146	0.00423	0.0137	J
67	25.46	336.8	48			0.00374	0.00594	U
68	25.48	326.4	60			0.0215	3.13	U
69	25.63	337.5	110			0.0136	0.0914	U
70	25.74	360.9				0.0210	3.13	U
71	26.04	347.8				0.00451	0.00461	U
72	26.25	336.8				0.00142	0.00142	U
73	26.54	360.9				0.00484	0.00891	U
74	26.70	347.8	26			0.00529	0.0309	U
75	26.83	360.9				0.00997	0.0673	U
76	26.94	360.9				0.0330	3.13	U
77	27.36	360.9				0.0123	0.0388	U
78	27.43	395.3				0.00878	0.0334	U
79	27.65	360.9				0.00611	0.00611	U
80	27.81	360.9				0.00190	0.00594	U
82	28.01	360.9	50			0.00813	0.0617	U
83	28.22	360.9				0.00326	0.00571	U
84	28.43	360.9				0.000301	0.000591	U
85	28.78	395.3				0.00590	0.0251	U
87	29.09	395.3				0.00462	0.00914	U
88	29.24	395.3				0.0133	0.0822	U
89	29.37	360.9				0.00278	0.00457	U
90	29.55	395.3				0.00541	0.0388	U
91	29.83	360.9				0.00358	0.00358	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.17	394.3				0.00216	0.0107	U
93	30.54	394.3				0.00951	0.0731	U
94	30.82	394.3				0.00745	0.0388	U
95	31.12	382.2				0.0132	0.0180	U
96	31.39	429.8				0.00177	0.00177	U
98	31.56	395.3				0.00413	0.00413	U
99	31.94	429.8				0.00200	0.00891	U
100	32.20	395.3				0.0434	0.0434	U
101	32.50	429.8				0.00777	0.00777	U
102	32.69	395.3				0.0176	0.139	U
103	32.94	395.3				0.00905	0.00959	U
104	33.24	395.3				0.00245	0.00548	U
105	33.60	429.8				0.00260	0.00982	U
106	34.78	395.3				0.00399	0.0292	U
107	35.05	395.3				0.0119	0.0119	U
108	35.93	429.8				0.00197	0.00548	U
109	36.17	429.8				0.0144	0.0959	U
110	36.72	429.8				0.0174	0.0982	U
111	37.92	395.3				0.00313	0.00313	U
112	39.49	429.8				0.00287	0.0126	U
113	40.02	464.2				0.00722	0.0113	U
114	40.98	464.2				0.00251	0.00425	U
115	42.43	429.8				0.0121	0.0411	U
116	43.33	429.8				0.00783	0.00783	U
117	48.58	464.2				0.00316	0.0155	U
118	54.73	498.6				0.00131	0.00131	U

Total Concentration = <1.00 ng/L 1.00 4.03 U

Total Nanomoles = 0.003

Average Molecular Weight = 267.9

Number of Calibrated Peaks Found = 52

Internal Standard Retention Time = 46.98 minutes

Internal Standard Peak Area = 161434.2

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/30/2009 22:11:27  
 Lab Sample ID: AM06245B  
 LRF ID: CEBLK-53  
 Lab File ID: GC16-691-13

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001		2	-	-
3	12.83	1:0	002		3	-	-
4	12.94	1:0	003		4	-	-
5	13.54	2:2	004 010		2-2; 26	-	-
6	14.41	2:1	007 009		24; 25	-	-
7	14.72	2:1	006	0.3133	2-3	3.464	4.160
8	14.91	2:1	005 008		23; 2-4	-	-
9	15.48	2:0	014		35	-	-
10	15.54	3:3	019	0.3308	26-2	4.153	4.322
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.30	2:0	012 013		34; 3-4	-	-
14	16.41	2:0 3:2	015 018	0.3493	4-4; 25-2	5.347	5.753
15	16.50	3:2	017	0.3512	24-2	4.182	4.352
16	16.80	3:2	024 027		236; 26-3	-	-
17	17.06	3:2	016 032	0.3631	23-2; 26-4	5.707	5.938
19	17.53	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.71	3:1	029		245	-	-
21	17.81	3:1	026	0.3791	25-3	4.911	5.110
22	17.89	3:1	025	0.3808	24-3	3.320	3.455
23	18.12	3:1	031	0.3857	25-4	13.459	14.004
24	18.16	3:1 4:3	028 050	0.3865	24-4; 246-2	7.759	8.073
25	18.51	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	7.677	7.926
26	18.74	3:1 4:3	022 051	0.3989	23-4; 24-26	5.398	5.590
27	18.98	4:3	045	0.4040	236-2	1.202	1.103
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4097	23-26	5.537	5.080
30	19.38	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4161	25-25; 246-3; 26-35	5.742	5.269
32	19.71	4:2	043 049	0.4195	235-2; 24-25	3.193	2.929
33	19.83	4:2	038 047		345; 24-24	-	-
34	19.89	4:2	048 075	0.4234	245-2; 246-4	1.456	1.336
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.12	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044	0.4319	246-26; 23-25	4.380	4.019
38	20.42	3:0 4:2	037 042 059	0.4347	34-4; 23-24; 236-3	3.197	3.145
39	20.77	4:2	041 064 071 072	0.4421	234-2; 236-4; 26-34; 25-35	2.889	2.651

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096		24-35; 236-26	-	-
42	21.03	4:2	040		23-23	-	-
43	21.29	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.46	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.62	4:1	063		235-4	-	-
46	21.78	4:1 5:3	074 094 061	0.4636	245-4; 235-26; 2345	0.852	0.782
47	21.91	4:1	070		25-34	-	-
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.33	4:1 5:3	055 091 121	0.4753	234-3; 236-24; 246-35	0.810	0.669
50	22.63	4:1	056 060		23-34; 234-4	-	-
51	22.87	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	23.00	5:3	089		234-26	-	-
53	23.15	5:2	090 101		235-24; 245-25	-	-
54	23.34	5:2	079 099 113	0.4968	34-35; 245-24; 236-35	0.676	0.555
55	23.63	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.72	5:2	078 083 112 108	0.5049	345-3; 235-23; 2356-3; 2346-3	1.139	0.935
57	23.91	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	2.605	2.138
58	24.10	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.27	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.39	6:4	120 136		245-35; 236-236	-	-
61	24.51	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.79	6:3	154		245-246	-	-
63	24.88	5:2	082		234-23	-	-
64	25.19	6:3	151		2356-25	-	-
65	25.32	5:1 6:3	124 135	0.5390	345-25; 235-236	0.316	0.242
66	25.39	6:3	144	0.5404	2346-25	0.629	0.467
67	25.46	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.48	5:1	123		345-24	-	-
69	25.63	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.25	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.54	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.70	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.83	6:2	153		245-245	-	-
76	26.94	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.36	6:2	141		2345-25	-	-
78	27.43	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.81	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.01	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.22	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.43	6:2	126 129		345-34; 2345-23	-	-
85	28.78	7:3	166 178		23456-4; 2356-235	-	-
87	29.09	7:3	175 159		2346-235; 2345-35	-	-
88	29.24	7:3	182 187		2345-246; 2356-245	-	-
89	29.37	6:2	128 162		234-234; 235-345	-	-
90	29.55	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.17	7:3	185		23456-25	-	-
93	30.54	7:3	174 181		2345-236; 23456-24	-	-
94	30.82	7:3	177		2356-234	-	-
95	31.12	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.39	8:4	157 202		234-345; 2356-2356	-	-
98	31.56	7:3	173		23456-23	-	-
99	31.94	8:4	201		2346-2356	-	-
100	32.20	7:2	172 204		2345-235; 23456-246	-	-
101	32.50	8:4	192 197		23456-35; 2346-2346	-	-
102	32.69	7:2	180		2345-245	-	-
103	32.94	7:2	193		2356-345	-	-
104	33.24	7:2	191		2346-345	-	-
105	33.60	8:4	200 169		23456-236; 345-345	-	-
106	34.78	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.05	7:2	<b>190</b>		23456-34	-	-
108	35.93	8:3	<b>198</b>		23456-235	-	-
109	36.17	8:3	<b>199</b>		2345-2356	-	-
110	36.72	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.92	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.02	9:4	<b>208</b>		23456-2356	-	-
114	40.98	9:4	<b>207</b>		23456-2346	-	-
115	42.43	8:2	<b>194</b>		2345-2345	-	-
116	43.33	8:2	<b>205</b>		23456-345	-	-
117	48.58	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = <1.00 ng/L

Total Nanomoles = 0.003

Average Molecular Weight = 267.9

Number of Calibrated Peaks Found = 52

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

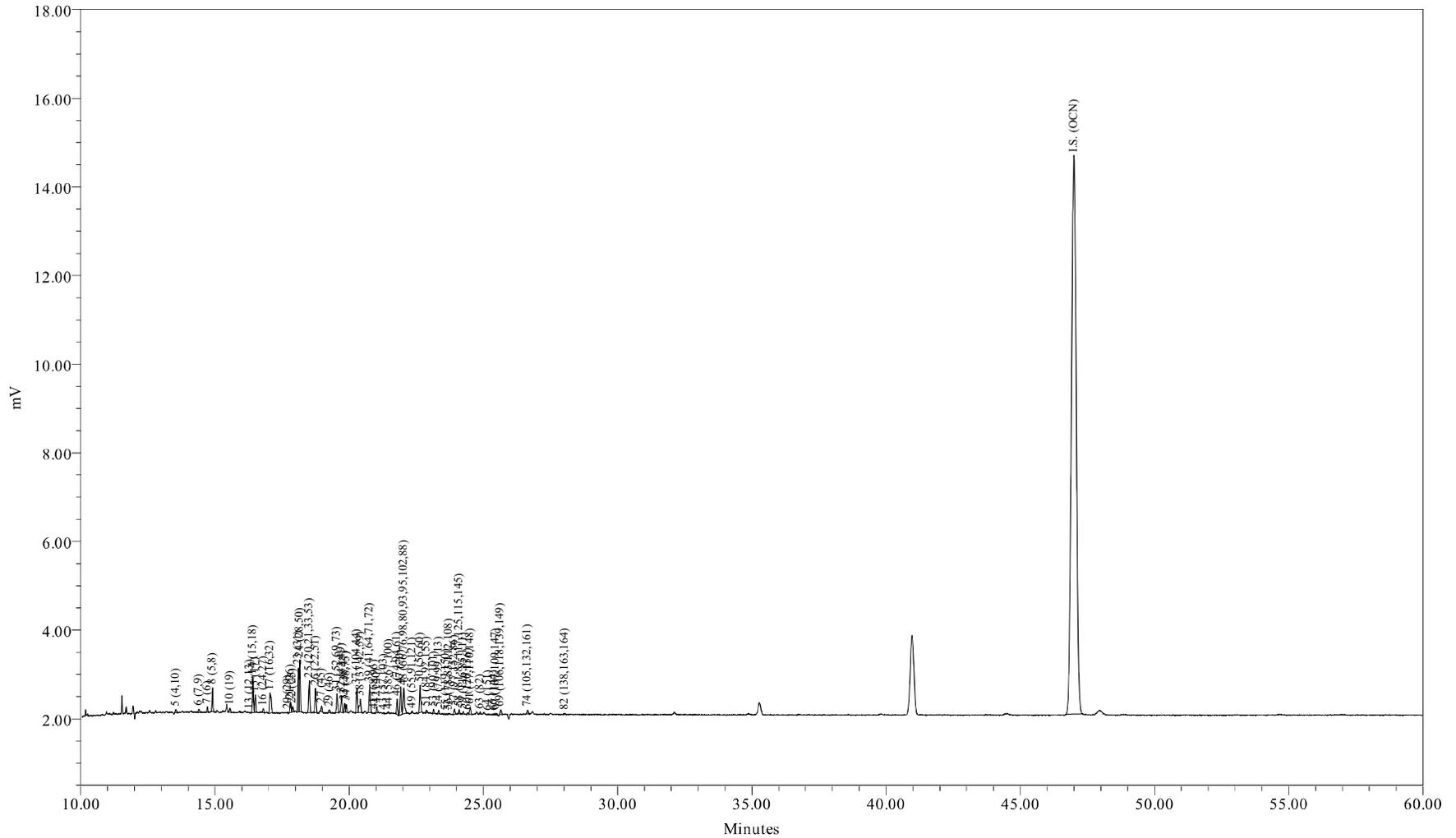
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050311
ELAP ID No:	11078	LRF ID:	LCS-53
Matrix:	ORGANIC FREE WATER	Client ID:	LCS-53(LAB CONTROL SPIKE)
Sample Wt(Dry)/Vol:	8000 mL	Lab Sample ID:	AM06245L
% Moisture:	100	Lab File ID:	GC16-691-14
Extraction:	Solid Phase Extraction - 8L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	05/30/2009 23:18
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE208_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 157648

Percent Recovery (50 - 150 %): 117

SAMPLE TOTAL PCB CONCENTRATION: 5.82 ng/L

Visual Aroclor ID: PCB Added to Sample



Sample Name: AM06245L  
Sample ID: LAB CONTROL SPIKE  
Date Acquired: 5/30/2009 11:18:49 PM EDT

Sample Amount (L) : 8.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_050609  
LIMS File ID:

Sample Name: AM06245L

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/30/2009 23:18:49  
 Lab Sample ID: AM06245L  
 LRF ID: LCS-53  
 Lab File ID: GC16-691-14

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 5.82 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	18.67	21.69
Tri	48.38	49.12
Tetra	28.47	25.63
Penta	3.95	3.18
Hexa	0.53	0.39
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001		0	0
A1242	23+24/31+28	0.7182	94.3	98.6
A1254SED	61/100	0.0434	5.69	
A1254BIO	69+75+82/149+153+138	0.0103		1.41
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.46

Meta + Para Cl / biphenyl Residue = 1.65

Total Cl / biphenyl Residue = 3.11

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/30/2009 23:18:49  
 Lab Sample ID: AM06245L  
 LRF ID: LCS-53  
 Lab File ID: GC16-691-14

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7				0.0495	0.274	U
3	12.83	188.7				0.986	125	U
4	12.94	188.7				0.0333	0.160	U
5	13.54	223.1	187	0.212	0.952	0.0153	0.0777	
6	14.40	223.1	193	0.0278	0.125	0.00574	0.0274	
7	14.72	223.1	252	0.0815	0.365	0.00952	0.0434	B
8	14.91	223.1	1181	0.672	3.01	0.0422	0.320	
9	15.48	223.1				0.0302	3.13	U
10	15.56	257.5	253	0.0549	0.213	0.00277	0.0128	B
11	16.03	257.5				0.0281	3.13	U
12	16.09	223.1				0.0332	3.13	U
13	16.30	223.1	2			0.00671	0.0122	U
14	16.42	249.0	2009	0.374	1.50	0.0133	0.0845	B
15	16.50	257.5	988	0.405	1.57	0.0185	0.0845	B
16	16.80	257.5	246	0.0326	0.127	0.00424	0.00594	
17	17.05	257.5	1911	0.443	1.72	0.0126	0.0891	B
19	17.53	267.9				0.0255	3.13	U
20	17.71	257.5	29	0.00387	0.0150	0.00271	0.00271	
21	17.82	257.5	686	0.121	0.471	0.00425	0.0164	B
22	17.90	257.5	359	0.0480	0.187	0.00326	0.00731	B
23	18.11	257.5	2563	0.332	1.29	0.0384	0.0942	B
24	18.16	257.5	3196	0.386	1.50	0.0284	0.121	B
25	18.51	259.5	2269	0.363	1.40	0.0175	0.0907	B
26	18.75	258.7	1514	0.258	0.998	0.0140	0.0662	B
27	18.97	292.0	308	0.0472	0.161	0.00817	0.0203	B
28	19.12	257.5				0.0283	3.13	U
29	19.26	292.0	219	0.0383	0.131	0.0127	0.0127	B
30	19.38	257.5				0.0335	3.13	U
31	19.55	292.0	1164	0.221	0.758	0.0180	0.109	B
32	19.71	292.0	1126	0.110	0.375	0.00923	0.0525	B
33	19.83	292.0	505	0.0324	0.111	0.0122	0.0228	
34	19.89	292.0	478	0.0483	0.166	0.00809	0.0228	B
35	20.04	292.0				0.0342	3.13	U
36	20.12	257.5				0.0324	3.13	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0	1605	0.204	0.698	0.0175	0.0982	B
38	20.42	272.4	1223	0.202	0.740	0.0166	0.0594	B
39	20.77	292.0	1815	0.176	0.604	0.0130	0.0937	B
41	20.94	326.4	14			0.0259	3.13	U
42	21.03	292.0	377	0.0514	0.176	0.0120	0.0215	
43	21.30	298.9	47			0.0198	3.13	U
44	21.48	298.9	55	0.00517	0.0173	0.00345	0.00503	
45	21.62	292.0				0.00520	0.00520	U
46	21.79	292.0	1051	0.0662	0.227	0.00685	0.0434	B
47	21.92	292.0	1938	0.150	0.515	0.0159	0.0777	
48	22.04	293.5	2096	0.242	0.824	0.0596	0.164	
49	22.34	324.7	98	0.0122	0.0376	0.00312	0.0117	B
50	22.64	292.0	1915	0.160	0.548	0.0301	0.0799	
51	22.88	326.4	189	0.0441	0.135	0.0150	0.0411	
52	23.00	326.4				0.00741	0.00741	U
53	23.14	326.4	218	0.0189	0.0580	0.00631	0.0411	J
54	23.33	326.4	213	0.0120	0.0367	0.00363	0.0169	JB
55	23.60	326.4	31	0.00129	0.00396	0.000850	0.00128	
56	23.71	326.4	56	0.00543	0.0166	0.00458	0.00685	JB
57	23.92	326.4	397	0.0306	0.0938	0.00746	0.0128	B
58	24.09	326.4	266	0.0197	0.0603	0.00689	0.0265	J
59	24.26	326.4	139	0.00886	0.0272	0.00685	0.0160	J
60	24.42	360.9	146	0.0114	0.0316	0.00759	0.0171	J
61	24.51	326.4	456	0.0434	0.133	0.0137	0.0487	J
62	24.79	360.9				0.0312	3.13	U
63	24.88	326.4	136	0.0105	0.0321	0.00241	0.0100	
64	25.17	360.9	53			0.00580	0.0388	U
65	25.34	350.5	48	0.00316	0.00900	0.00185	0.00663	JB
66	25.39	360.9	45	0.00663	0.0184	0.00423	0.0137	JB
67	25.46	336.8	94	0.00859	0.0255	0.00374	0.00594	
68	25.50	326.4	68			0.0215	3.13	U
69	25.64	337.5	375			0.0136	0.0914	U
70	25.74	360.9				0.0210	3.13	U
71	26.04	347.8				0.00451	0.00461	U
72	26.25	336.8				0.00142	0.00142	U
73	26.54	360.9				0.00484	0.00891	U
74	26.64	347.8	254	0.0126	0.0363	0.00529	0.0309	J
75	26.83	360.9				0.00997	0.0673	U
76	26.94	360.9				0.0330	3.13	U
77	27.36	360.9				0.0123	0.0388	U
78	27.43	395.3				0.00878	0.0334	U
79	27.65	360.9				0.00611	0.00611	U
80	27.81	360.9				0.00190	0.00594	U
82	28.02	360.9	84			0.00813	0.0617	U
83	28.22	360.9				0.00326	0.00571	U
84	28.43	360.9				0.000301	0.000591	U
85	28.78	395.3				0.00590	0.0251	U
87	29.09	395.3				0.00462	0.00914	U
88	29.24	395.3				0.0133	0.0822	U
89	29.37	360.9				0.00278	0.00457	U
90	29.55	395.3				0.00541	0.0388	U
91	29.83	360.9				0.00358	0.00358	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.17	394.3				0.00216	0.0107	U
93	30.54	394.3				0.00951	0.0731	U
94	30.82	394.3				0.00745	0.0388	U
95	31.12	382.2				0.0132	0.0180	U
96	31.39	429.8				0.00177	0.00177	U
98	31.56	395.3				0.00413	0.00413	U
99	31.94	429.8				0.00200	0.00891	U
100	32.20	395.3				0.0434	0.0434	U
101	32.50	429.8				0.00777	0.00777	U
102	32.69	395.3				0.0176	0.139	U
103	32.94	395.3				0.00905	0.00959	U
104	33.24	395.3				0.00245	0.00548	U
105	33.60	429.8				0.00260	0.00982	U
106	34.78	395.3				0.00399	0.0292	U
107	35.05	395.3				0.0119	0.0119	U
108	35.93	429.8				0.00197	0.00548	U
109	36.17	429.8				0.0144	0.0959	U
110	36.72	429.8				0.0174	0.0982	U
111	37.92	395.3				0.00313	0.00313	U
112	39.49	429.8				0.00287	0.0126	U
113	40.02	464.2				0.00722	0.0113	U
114	40.98	464.2				0.00251	0.00425	U
115	42.43	429.8				0.0121	0.0411	U
116	43.33	429.8				0.00783	0.00783	U
117	48.58	464.2				0.00316	0.0155	U
118	54.73	498.6				0.00131	0.00131	U

Total Concentration = 5.82 ng/L

1.00 4.03

Total Nanomoles = 0.022

Average Molecular Weight = 261.5

Number of Calibrated Peaks Found = 54

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 157648.4

Northeast Analytical, Inc.  
2190 Technology Drive  
Schenectady, NY 12308  
(518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
Sample Description: LAB CONTROL SPIKE  
Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
Date Acquired: 05/30/2009 23:18:49  
Lab Sample ID: AM06245L  
LRF ID: LCS-53  
Lab File ID: GC16-691-14

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001		2	-	-
3	12.83	1:0	002		3	-	-
4	12.94	1:0	003		4	-	-
5	13.54	2:2	004 010	0.2881	2-2; 26	3.650	4.278
6	14.40	2:1	007 009	0.3064	24; 25	0.478	0.560
7	14.72	2:1	006	0.3132	2-3	1.400	1.641
8	14.91	2:1	005 008	0.3172	23; 2-4	11.549	13.535
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019	0.3311	26-2	0.944	0.959
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.30	2:0	012 013		34; 3-4	-	-
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	6.421	6.742
15	16.50	3:2	017	0.3511	24-2	6.959	7.066
16	16.80	3:2	024 027	0.3574	236; 26-3	0.560	0.569
17	17.05	3:2	016 032	0.3628	23-2; 26-4	7.619	7.737
19	17.53	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.71	3:1	029	0.3768	245	0.066	0.067
21	17.82	3:1	026	0.3791	25-3	2.085	2.117
22	17.90	3:1	025	0.3809	24-3	0.825	0.838
23	18.11	3:1	031	0.3853	25-4	5.704	5.792
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	6.639	6.742
25	18.51	3:1 4:3	020 021 033 053	0.3938	23-3; 234; 34-2; 25-26	6.237	6.284
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	4.439	4.487
27	18.97	4:3	045	0.4036	236-2	0.810	0.726
28	19.12	3:0	036		35-3	-	-
29	19.26	4:3	046	0.4098	23-26	0.658	0.589
30	19.38	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.805	3.407
32	19.71	4:2	043 049	0.4194	235-2; 24-25	1.883	1.686
33	19.83	4:2	038 047	0.4219	345; 24-24	0.556	0.498
34	19.89	4:2	048 075	0.4232	245-2; 246-4	0.831	0.744
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.12	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	3.501	3.135
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	3.466	3.327
39	20.77	4:2	041 064 071 072	0.4419	234-2; 236-4; 26-34; 25-35	3.031	2.714

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.94	5:4	068 096		24-35; 236-26	-	-
42	21.03	4:2	040	0.4474	23-23	0.883	0.791
43	21.30	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.48	4:1 5:3	058 067 100	0.4570	23-35; 245-3; 246-24	0.089	0.078
45	21.62	4:1	063		235-4	-	-
46	21.79	4:1 5:3	074 094 061	0.4636	245-4; 235-26; 2345	1.137	1.018
47	21.92	4:1	070	0.4664	25-34	2.585	2.314
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.156	3.703
49	22.34	4:1 5:3	055 091 121	0.4753	234-3; 236-24; 246-35	0.210	0.169
50	22.64	4:1	056 060	0.4817	23-34; 234-4	2.748	2.461
51	22.88	5:3 6:4	084 092 155	0.4868	236-23; 235-25; 246-246	0.759	0.608
52	23.00	5:3	089		234-26	-	-
53	23.14	5:2	090 101	0.4923	235-24; 245-25	0.325	0.261
54	23.33	5:2	079 099 113	0.4964	34-35; 245-24; 236-35	0.206	0.165
55	23.60	5:2 6:4	119 150	0.5021	246-34; 236-246	0.022	0.018
56	23.71	5:2	078 083 112 108	0.5045	345-3; 235-23; 2356-3; 2346-3	0.093	0.075
57	23.92	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	0.526	0.421
58	24.09	5:2	081 087 117 125 115 145	0.5126	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.338	0.271
59	24.26	5:2	116 085 111	0.5162	23456; 234-24; 235-35	0.152	0.122
60	24.42	6:4	120 136	0.5196	245-35; 236-236	0.196	0.142
61	24.51	5:2	077 110 148	0.5215	34-34; 236-34; 235-246	0.745	0.597
62	24.79	6:3	154		245-246	-	-
63	24.88	5:2	082	0.5294	234-23	0.180	0.144
64	25.17	6:3	151		2356-25	-	-
65	25.34	5:1 6:3	124 135	0.5391	345-25; 235-236	0.054	0.040
66	25.39	6:3	144	0.5402	2346-25	0.114	0.083
67	25.46	5:1 6:3	107 109 147	0.5417	234-35; 235-34; 2356-24	0.148	0.115
68	25.50	5:1	123		345-24	-	-
69	25.64	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.25	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.54	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.64	5:1 6:3	105 132 161	0.5668	234-34; 234-236; 2346-35	0.217	0.163
75	26.83	6:2	153		245-245	-	-
76	26.94	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.36	6:2	141		2345-25	-	-
78	27.43	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.81	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.02	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.22	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.43	6:2	126 129		345-34; 2345-23	-	-
85	28.78	7:3	166 178		23456-4; 2356-235	-	-
87	29.09	7:3	175 159		2346-235; 2345-35	-	-
88	29.24	7:3	182 187		2345-246; 2356-245	-	-
89	29.37	6:2	128 162		234-234; 235-345	-	-
90	29.55	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.17	7:3	185		23456-25	-	-
93	30.54	7:3	174 181		2345-236; 23456-24	-	-
94	30.82	7:3	177		2356-234	-	-
95	31.12	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.39	8:4	157 202		234-345; 2356-2356	-	-
98	31.56	7:3	173		23456-23	-	-
99	31.94	8:4	201		2346-2356	-	-
100	32.20	7:2	172 204		2345-235; 23456-246	-	-
101	32.50	8:4	192 197		23456-35; 2346-2346	-	-
102	32.69	7:2	180		2345-245	-	-
103	32.94	7:2	193		2356-345	-	-
104	33.24	7:2	191		2346-345	-	-
105	33.60	8:4	200 169		23456-236; 345-345	-	-
106	34.78	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.05	7:2	<b>190</b>		23456-34	-	-
108	35.93	8:3	<b>198</b>		23456-235	-	-
109	36.17	8:3	<b>199</b>		2345-2356	-	-
110	36.72	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.92	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.02	9:4	<b>208</b>		23456-2356	-	-
114	40.98	9:4	<b>207</b>		23456-2346	-	-
115	42.43	8:2	<b>194</b>		2345-2345	-	-
116	43.33	8:2	<b>205</b>		23456-345	-	-
117	48.58	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 5.82 ng/L

Total Nanomoles = 0.022

Average Molecular Weight = 261.5

Number of Calibrated Peaks Found = 54

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050311
ELAP ID No:	11078	LRF ID:	CEBLK-52RR1
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-52(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM06270BRR1
% Moisture:	100	Lab File ID:	GC24-73-7
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	05/31/2009 16:06
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:		

OCN (I.S.) Peak Area: 152282

Percent Recovery (50 - 150 %): 132

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

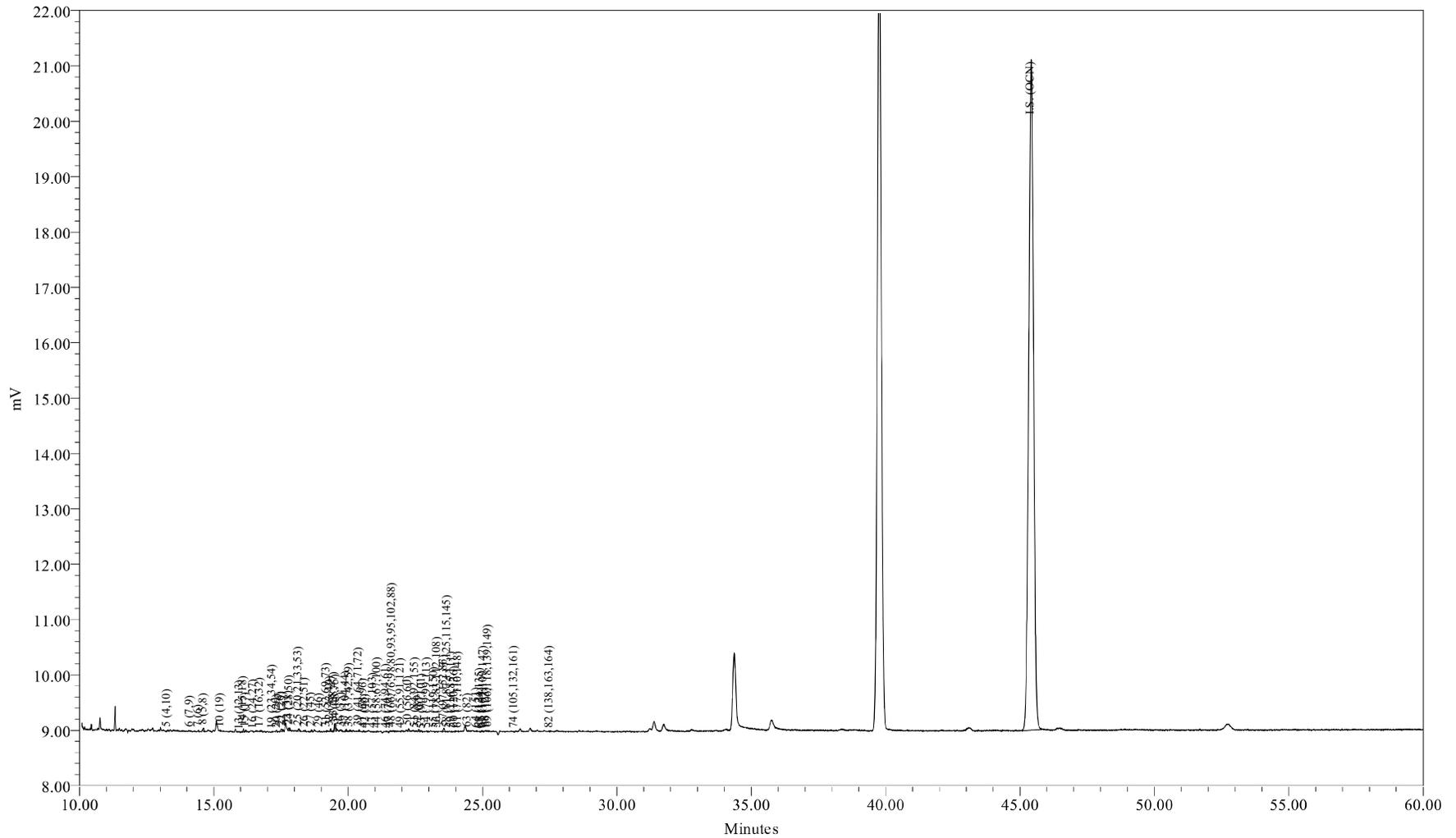
Visual Aroclor ID: No Aroclor Pattern Detected



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM06270BRR1  
Sample ID: METHOD BLANK  
Date Acquired: 05/31/2009 16:06:28 EDT

Sample Amount (L): 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-7

Sample Name: AM06270BRR1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 16:06:28  
 Lab Sample ID: AM06270BRR1  
 LRF ID: CEBLK-52RR1  
 Lab File ID: GC24-73-7

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <9.10 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	0.00	0.00
Tri	59.42	64.29
Tetra	10.68	10.19
Penta	29.90	25.52
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 1.80

Meta + Para Cl / biphenyl Residue = 1.81

Total Cl / biphenyl Residue = 3.61

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 16:06:28  
 Lab Sample ID: AM06270BRR1  
 LRF ID: CEBLK-52RR1  
 Lab File ID: GC24-73-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7				0.529	2.19	U
3	12.58	188.7				6.63	1000	U
4	12.68	188.7				0.355	1.28	U
5	13.27	223.1	20			0.134	0.621	U
6	14.12	223.1	9			0.0721	0.219	U
7	14.44	223.1	53			0.158	0.347	U
8	14.62	223.1	138			0.542	2.56	U
9	15.18	223.1				0.294	25.0	U
10	15.26	257.5	0			0.0604	0.102	U
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.98	223.1	1			0.0559	0.0975	U
14	16.11	249.0	116			0.128	0.676	U
15	16.19	257.5	87	0.145	0.563	0.143	0.676	J
16	16.48	257.5	3			0.0374	0.0475	U
17	16.73	257.5	88			0.166	0.713	U
19	17.19	267.9	3			0.128	25.0	U
20	17.37	257.5	5			0.0108	0.0194	U
21	17.50	257.5	149	0.194	0.754	0.0606	0.132	
22	17.56	257.5	95	0.0980	0.381	0.0426	0.0585	
23	17.79	257.5	116			0.487	0.753	U
24	17.83	257.5	115			0.211	0.964	U
25	18.16	259.5	137			0.105	0.726	U
26	18.40	258.7	52			0.120	0.530	U
27	18.64	292.0	74	0.0786	0.269	0.0367	0.163	J
28	18.74	257.5	71			0.375	25.0	U
29	18.93	292.0	40			0.127	0.127	U
30	19.03	257.5				0.120	25.0	U
31	19.20	292.0	33			0.204	0.872	U
32	19.35	292.0	127			0.0978	0.420	U
33	19.49	292.0	153			0.0656	0.183	U
34	19.53	292.0	96			0.0579	0.183	U
35	19.68	292.0				0.205	25.0	U
36	19.74	257.5	37			0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	84			0.160	0.786	U
38	20.06	272.4	59			0.115	0.475	U
39	20.40	292.0	38			0.121	0.749	U
41	20.59	326.4	26			0.115	25.0	U
42	20.65	292.0	12			0.0968	0.172	U
43	20.93	298.9	9			0.152	25.0	U
44	21.10	298.9	21			0.0225	0.0402	U
45	21.25	292.0				0.0299	0.0384	U
46	21.42	292.0	3			0.0821	0.347	U
47	21.54	292.0	3			0.164	0.621	U
48	21.66	293.5	49			0.243	1.32	U
49	21.96	324.7	10			0.0376	0.0932	U
50	22.25	292.0	89			0.359	0.640	U
51	22.51	326.4	14			0.0888	0.329	U
52	22.63	326.4	131	0.113	0.347	0.0384	0.0384	
53	22.76	326.4	1			0.0691	0.329	U
54	22.96	326.4	5			0.101	0.135	U
55	23.22	326.4	12			0.00644	0.0102	U
56	23.33	326.4	5			0.0647	0.0647	U
57	23.56	326.4	189	0.107	0.327	0.0435	0.102	
58	23.70	326.4	4			0.0841	0.212	U
59	23.85	326.4	1			0.0484	0.128	U
60	23.98	360.9	8			0.0772	0.137	U
61	24.10	326.4	13			0.0668	0.389	U
62	24.39	360.9				0.113	25.0	U
63	24.46	326.4	8			0.0201	0.0804	U
64	24.78	360.9	12			0.0518	0.311	U
65	24.92	350.5	7			0.0149	0.0530	U
66	24.98	360.9	3			0.0541	0.110	U
67	25.05	336.8	5			0.0348	0.0475	U
68	25.13	326.4	4			0.125	25.0	U
69	25.23	337.5	8			0.0938	0.731	U
70	25.33	360.9				0.0829	25.0	U
71	25.62	347.8				0.0348	0.0369	U
72	25.82	336.8				0.00638	0.0106	U
73	26.08	360.9				0.0320	0.0713	U
74	26.19	347.8	3			0.0721	0.248	U
75	26.36	360.9				0.109	0.538	U
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.29	360.9				0.0151	0.0475	U
82	27.51	360.9	2			0.108	0.493	U
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3				0.0677	0.201	U
87	28.51	395.3				0.0156	0.0731	U
88	28.65	395.3				0.102	0.658	U
89	28.76	360.9				0.0199	0.0366	U
90	28.94	395.3				0.0679	0.311	U
91	29.19	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.89	394.3				0.102	0.585	U
94	30.15	394.3				0.0936	0.311	U
95	30.43	382.2				0.0871	0.144	U
96	30.69	429.8				0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.90	395.3				0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = <9.10 ng/L 9.10 32.2 U

Total Nanomoles = 0.003

Average Molecular Weight = 278.6

Number of Calibrated Peaks Found = 58

Internal Standard Retention Time = 45.42 minutes

Internal Standard Peak Area = 152282.5

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 16:06:28  
 Lab Sample ID: AM06270BRR1  
 LRF ID: CEBLK-52RR1  
 Lab File ID: GC24-73-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001		2	-	-
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.27	2:2	004 010		2-2; 26	-	-
6	14.12	2:1	007 009		24; 25	-	-
7	14.44	2:1	006		2-3	-	-
8	14.62	2:1	005 008		23; 2-4	-	-
9	15.18	2:0	014		35	-	-
10	15.26	3:3	019		26-2	-	-
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.19	3:2	017	0.3565	24-2	19.705	21.320
16	16.48	3:2	024 027		236; 26-3	-	-
17	16.73	3:2	016 032		23-2; 26-4	-	-
19	17.19	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026	0.3853	25-3	26.392	28.555
22	17.56	3:1	025	0.3866	24-3	13.324	14.416
23	17.79	3:1	031		25-4	-	-
24	17.83	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.16	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.40	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.64	4:3	045	0.4104	236-2	10.679	10.189
28	18.74	3:0	036		35-3	-	-
29	18.93	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.35	4:2	043 049		235-2; 24-25	-	-
33	19.49	4:2	038 047		345; 24-24	-	-
34	19.53	4:2	048 075		245-2; 246-4	-	-
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.74	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.06	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.40	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.59	5:4	068 096		24-35; 236-26	-	-
42	20.65	4:2	040		23-23	-	-
43	20.93	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.10	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.25	4:1	063		235-4	-	-
46	21.42	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.54	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.96	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.25	4:1	056 060		23-34; 234-4	-	-
51	22.51	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.63	5:3	089	0.4982	234-26	15.383	13.130
53	22.76	5:2	090 101		235-24; 245-25	-	-
54	22.96	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.22	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.33	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.56	5:2 6:4	097 152 086	0.5187	245-23; 2356-26; 2345-2	14.516	12.390
58	23.70	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.85	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.98	6:4	120 136		245-35; 236-236	-	-
61	24.10	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.39	6:3	154		245-246	-	-
63	24.46	5:2	082		234-23	-	-
64	24.78	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.98	6:3	144		2346-25	-	-
67	25.05	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.13	5:1	123		345-24	-	-
69	25.23	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.19	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = <9.10 ng/L

Total Nanomoles = 0.003

Average Molecular Weight = 278.6

Number of Calibrated Peaks Found = 58

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

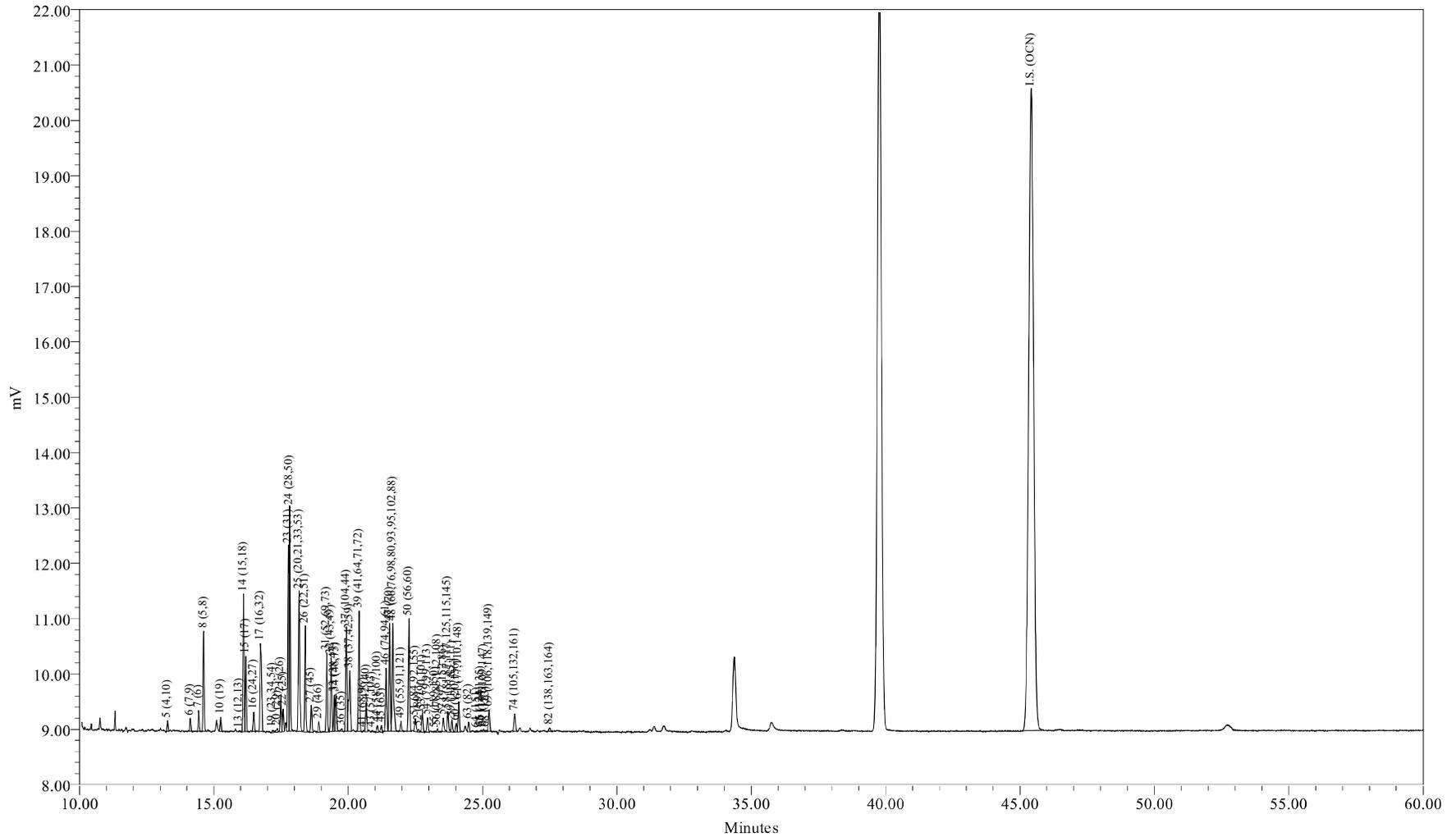
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050311
ELAP ID No:	11078	LRF ID:	LCS-52RR1
Matrix:	ORGANIC FREE WATER	Client ID:	LCS-52(LAB CONTROL SPIKE)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM06270LRR1
% Moisture:	100	Lab File ID:	GC24-73-8
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	05/31/2009 17:12
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:		

OCN (I.S.) Peak Area: 148109

Percent Recovery (50 - 150 %): 128

SAMPLE TOTAL PCB CONCENTRATION: 177 ng/L

Visual Aroclor ID: PCB Added to Sample



Sample Name: AM06270LRR1  
Sample ID: LAB CONTROL SPIKE  
Date Acquired: 05/31/2009 17:12:09 EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-8

Sample Name: AM06270LRR1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 17:12:09  
 Lab Sample ID: AM06270LRR1  
 LRF ID: LCS-52RR1  
 Lab File ID: GC24-73-8

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 177 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	17.93	20.95
Tri	46.79	47.73
Tetra	29.53	26.72
Penta	5.14	4.14
Hexa	0.61	0.46
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001		0	0
A1242	23+24/31+28	21.7844	93.8	96.8
A1254SED	61/100	1.4469	6.23	
A1254BIO	69+75+82/149+153+138	0.7271		3.23
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.45

Meta + Para Cl / biphenyl Residue = 1.70

Total Cl / biphenyl Residue = 3.15

Northeast Analytical, Inc.  
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 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 17:12:09  
 Lab Sample ID: AM06270LRR1  
 LRF ID: LCS-52RR1  
 Lab File ID: GC24-73-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7				0.529	2.19	U
3	12.58	188.7				6.63	1000	U
4	12.68	188.7				0.355	1.28	U
5	13.28	223.1	490	4.15	18.6	0.134	0.621	
6	14.12	223.1	662	0.801	3.59	0.0721	0.219	
7	14.43	223.1	914	2.28	10.2	0.158	0.347	
8	14.62	223.1	4561	21.8	97.8	0.542	2.56	
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	699	1.15	4.45	0.0604	0.102	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.95	223.1	36	0.0797	0.357	0.0559	0.0975	J
14	16.11	249.0	6942	10.7	42.8	0.128	0.676	
15	16.19	257.5	3630	11.8	45.7	0.143	0.676	B
16	16.49	257.5	959	0.957	3.72	0.0374	0.0475	
17	16.74	257.5	6753	12.4	48.1	0.166	0.713	
19	17.19	267.9	215	0.330	1.23	0.128	25.0	J
20	17.37	257.5	284	0.259	1.01	0.0108	0.0194	
21	17.49	257.5	1947	2.69	10.5	0.0606	0.132	B
22	17.58	257.5	1217	1.29	5.00	0.0426	0.0585	B
23	17.78	257.5	9075	10.3	39.9	0.487	0.753	
24	17.82	257.5	11367	11.5	44.7	0.211	0.964	
25	18.17	259.5	8544	11.3	43.4	0.105	0.726	
26	18.40	258.7	5821	8.03	31.0	0.120	0.530	
27	18.63	292.0	1436	1.78	6.09	0.0367	0.163	B
28	18.77	257.5				0.375	25.0	U
29	18.91	292.0	602	0.834	2.86	0.127	0.127	
30	19.03	257.5				0.120	25.0	U
31	19.20	292.0	4289	7.13	24.4	0.204	0.872	
32	19.36	292.0	4160	3.49	11.9	0.0978	0.420	
33	19.48	292.0	1991	1.17	4.02	0.0656	0.183	
34	19.54	292.0	2117	1.73	5.91	0.0579	0.183	
35	19.68	292.0				0.205	25.0	U
36	19.76	257.5	150	0.310	1.20	0.144	25.0	J

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	5863	6.21	21.3	0.160	0.786	
38	20.06	272.4	4776	6.39	23.5	0.115	0.475	
39	20.40	292.0	7027	5.80	19.9	0.121	0.749	
41	20.57	326.4	79	0.115	0.352	0.115	25.0	J
42	20.66	292.0	1709	1.74	5.96	0.0968	0.172	
43	20.90	298.9	80			0.152	25.0	U
44	21.09	298.9	414	0.289	0.968	0.0225	0.0402	
45	21.24	292.0	366	0.261	0.893	0.0299	0.0384	
46	21.41	292.0	3553	1.95	6.68	0.0821	0.347	
47	21.55	292.0	6172	4.30	14.7	0.164	0.621	
48	21.66	293.5	7436	7.68	26.2	0.243	1.32	
49	21.97	324.7	613	0.540	1.66	0.0376	0.0932	
50	22.26	292.0	6676	4.57	15.7	0.359	0.640	
51	22.50	326.4	891	1.64	5.02	0.0888	0.329	
52	22.63	326.4	179	0.161	0.493	0.0384	0.0384	B
53	22.76	326.4	1207	0.987	3.02	0.0691	0.329	
54	22.95	326.4	872	0.460	1.41	0.101	0.135	
55	23.24	326.4	72	0.0252	0.0771	0.00644	0.0102	
56	23.33	326.4	185	0.172	0.526	0.0647	0.0647	
57	23.54	326.4	919	0.579	1.77	0.0435	0.102	B
58	23.71	326.4	1282	0.943	2.89	0.0841	0.212	
59	23.86	326.4	698	0.417	1.28	0.0484	0.128	
60	24.02	360.9	498	0.330	0.913	0.0772	0.137	
61	24.11	326.4	1793	1.45	4.43	0.0668	0.389	
62	24.39	360.9				0.113	25.0	U
63	24.48	326.4	606	0.423	1.29	0.0201	0.0804	
64	24.79	360.9	75			0.0518	0.311	U
65	24.93	350.5	74	0.0252	0.0718	0.0149	0.0530	J
66	24.95	360.9	79	0.0976	0.270	0.0541	0.110	J
67	25.04	336.8	148	0.127	0.377	0.0348	0.0475	
68	25.12	326.4	85			0.125	25.0	U
69	25.24	337.5	1363	0.727	2.15	0.0938	0.731	J
70	25.33	360.9				0.0829	25.0	U
71	25.62	347.8				0.0348	0.0369	U
72	25.82	336.8				0.00638	0.0106	U
73	26.08	360.9				0.0320	0.0713	U
74	26.20	347.8	1181	0.595	1.71	0.0721	0.248	
75	26.36	360.9				0.109	0.538	U
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.29	360.9				0.0151	0.0475	U
82	27.49	360.9	260			0.108	0.493	U
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3				0.0677	0.201	U
87	28.51	395.3				0.0156	0.0731	U
88	28.65	395.3				0.102	0.658	U
89	28.76	360.9				0.0199	0.0366	U
90	28.94	395.3				0.0679	0.311	U
91	29.19	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.89	394.3				0.102	0.585	U
94	30.15	394.3				0.0936	0.311	U
95	30.43	382.2				0.0871	0.144	U
96	30.69	429.8				0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.90	395.3				0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = 177 ng/L

9.10 32.2

Total Nanomoles = 0.674

Average Molecular Weight = 262.9

Number of Calibrated Peaks Found = 58

Internal Standard Retention Time = 45.42 minutes

Internal Standard Peak Area = 148108.9

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090527-BNEA-01  
 Date Acquired: 05/31/2009 17:12:09  
 Lab Sample ID: AM06270LRR1  
 LRF ID: LCS-52RR1  
 Lab File ID: GC24-73-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	2		-	-
3	12.58	1:0	002	3		-	-
4	12.68	1:0	003	4		-	-
5	13.28	2:2	004 010	0.2924	2-2; 26	2.345	2.762
6	14.12	2:1	007 009	0.3109	24; 25	0.452	0.533
7	14.43	2:1	006	0.3177	2-3	1.286	1.515
8	14.62	2:1	005 008	0.3219	23; 2-4	12.314	14.508
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	0.647	0.660
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.95	2:0	012 013	0.3512	34; 3-4	0.045	0.053
14	16.11	2:0 3:2	015 018	0.3547	4-4; 25-2	6.014	6.349
15	16.19	3:2	017	0.3565	24-2	6.646	6.784
16	16.49	3:2	024 027	0.3631	236; 26-3	0.540	0.552
17	16.74	3:2	016 032	0.3686	23-2; 26-4	6.998	7.143
19	17.19	3:1 4:4	023 034 054	0.3785	235; 35-2; 26-26	0.186	0.183
20	17.37	3:1	029	0.3824	245	0.146	0.149
21	17.49	3:1	026	0.3851	25-3	1.520	1.552
22	17.58	3:1	025	0.3871	24-3	0.727	0.742
23	17.78	3:1	031	0.3915	25-4	5.797	5.917
24	17.82	3:1 4:3	028 050	0.3923	24-4; 246-2	6.503	6.638
25	18.17	3:1 4:3	020 021 033 053	0.4000	23-3; 234; 34-2; 25-26	6.356	6.438
26	18.40	3:1 4:3	022 051	0.4051	23-4; 24-26	4.532	4.605
27	18.63	4:3	045	0.4102	236-2	1.004	0.904
28	18.77	3:0	036		35-3	-	-
29	18.91	4:3	046	0.4163	23-26	0.471	0.424
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4227	25-25; 246-3; 26-35	4.028	3.626
32	19.36	4:2	043 049	0.4262	235-2; 24-25	1.968	1.772
33	19.48	4:2	038 047	0.4289	345; 24-24	0.663	0.597
34	19.54	4:2	048 075	0.4302	245-2; 246-4	0.975	0.877
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035	0.4351	34-3	0.175	0.179
37	19.93	5:4 4:2	104 044	0.4388	246-26; 23-25	3.506	3.156
38	20.06	3:0 4:2	037 042 059	0.4417	34-4; 23-24; 236-3	3.609	3.482
39	20.40	4:2	041 064 071 072	0.4491	234-2; 236-4; 26-34; 25-35	3.273	2.946

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096	0.4529	24-35; 236-26	0.065	0.052
42	20.66	4:2	040	0.4549	23-23	0.983	0.885
43	20.90	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.09	4:1 5:3	058 067 100	0.4643	23-35; 245-3; 246-24	0.163	0.144
45	21.24	4:1	063	0.4676	235-4	0.147	0.133
46	21.41	4:1 5:3	074 094 061	0.4714	245-4; 235-26; 2345	1.101	0.991
47	21.55	4:1	070	0.4745	25-34	2.426	2.184
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4769	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.337	3.884
49	21.97	4:1 5:3	055 091 121	0.4837	234-3; 236-24; 246-35	0.305	0.247
50	22.26	4:1	056 060	0.4901	23-34; 234-4	2.581	2.323
51	22.50	5:3 6:4	084 092 155	0.4954	236-23; 235-25; 246-246	0.926	0.745
52	22.63	5:3	089	0.4982	234-26	0.091	0.073
53	22.76	5:2	090 101	0.5011	235-24; 245-25	0.557	0.449
54	22.95	5:2	079 099 113	0.5053	34-35; 245-24; 236-35	0.259	0.209
55	23.24	5:2 6:4	119 150	0.5117	246-34; 236-246	0.014	0.011
56	23.33	5:2	078 083 112 108	0.5137	345-3; 235-23; 2356-3; 2346-3	0.097	0.078
57	23.54	5:2 6:4	097 152 086	0.5183	245-23; 2356-26; 2345-2	0.327	0.263
58	23.71	5:2	081 087 117 125 115 145	0.5220	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.532	0.429
59	23.86	5:2	116 085 111	0.5253	23456; 234-24; 235-35	0.236	0.190
60	24.02	6:4	120 136	0.5288	245-35; 236-236	0.186	0.136
61	24.11	5:2	077 110 148	0.5308	34-34; 236-34; 235-246	0.817	0.658
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5390	234-23	0.239	0.192
64	24.79	6:3	151		2356-25	-	-
65	24.93	5:1 6:3	124 135	0.5489	345-25; 235-236	0.014	0.011
66	24.95	6:3	144	0.5493	2346-25	0.055	0.040
67	25.04	5:1 6:3	107 109 147	0.5513	234-35; 235-34; 2356-24	0.072	0.056
68	25.12	5:1	123		345-24	-	-
69	25.24	5:1 6:3	106 118 139 149	0.5557	2345-3; 245-34; 2346-24; 236-245	0.411	0.320
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.20	5:1 6:3	105 132 161	0.5768	234-34; 234-236; 2346-35	0.336	0.254
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.49	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 177 ng/L

Total Nanomoles = 0.674

Average Molecular Weight = 262.9

Number of Calibrated Peaks Found = 58

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

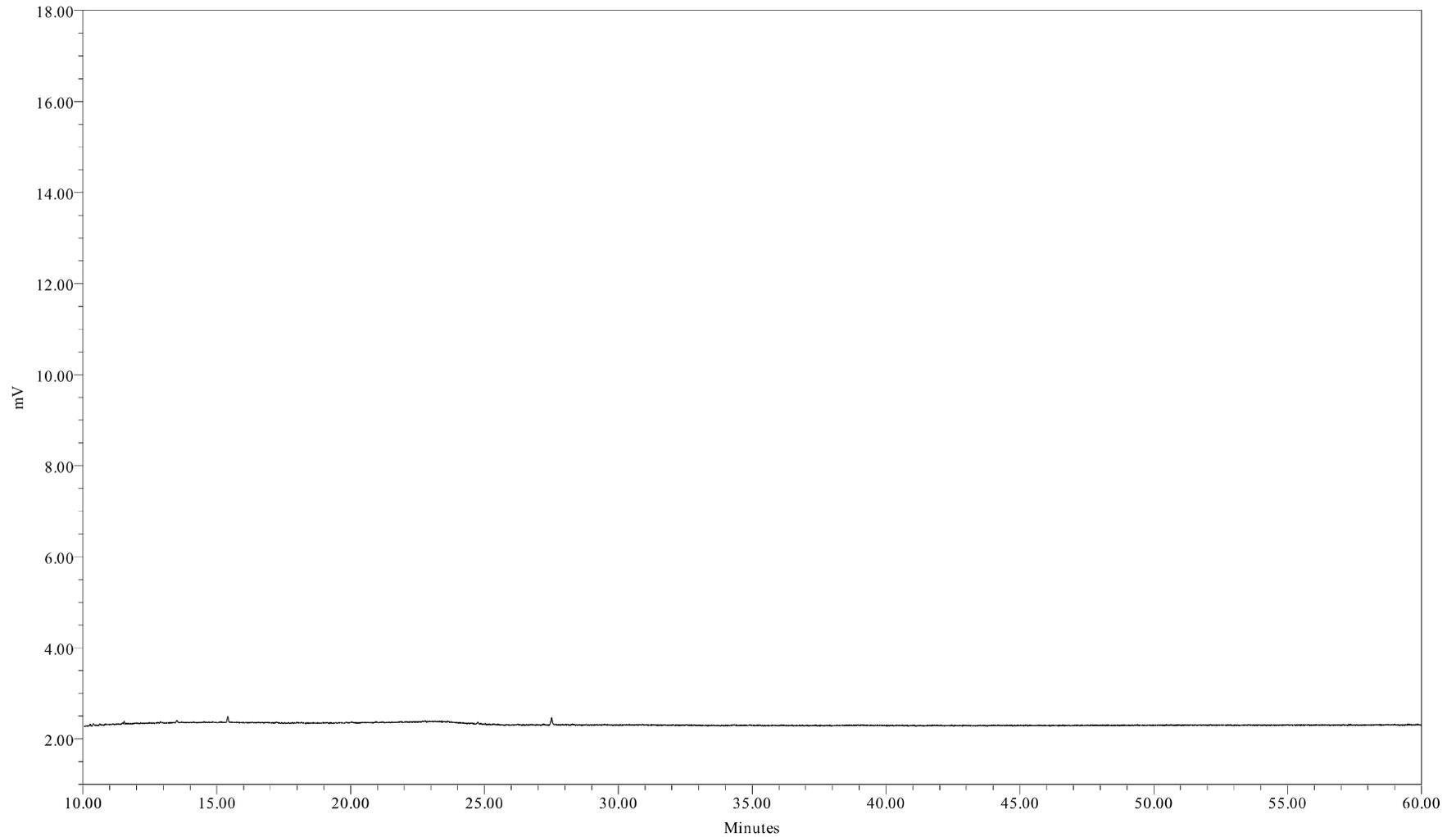
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



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Sample Name: 090530B02  
Sample ID: HEXANE BLANK  
Date Acquired: 5/30/2009 9:47:55 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_050609  
LIMS File ID: GC16-691-2

Sample Name: 090530B02

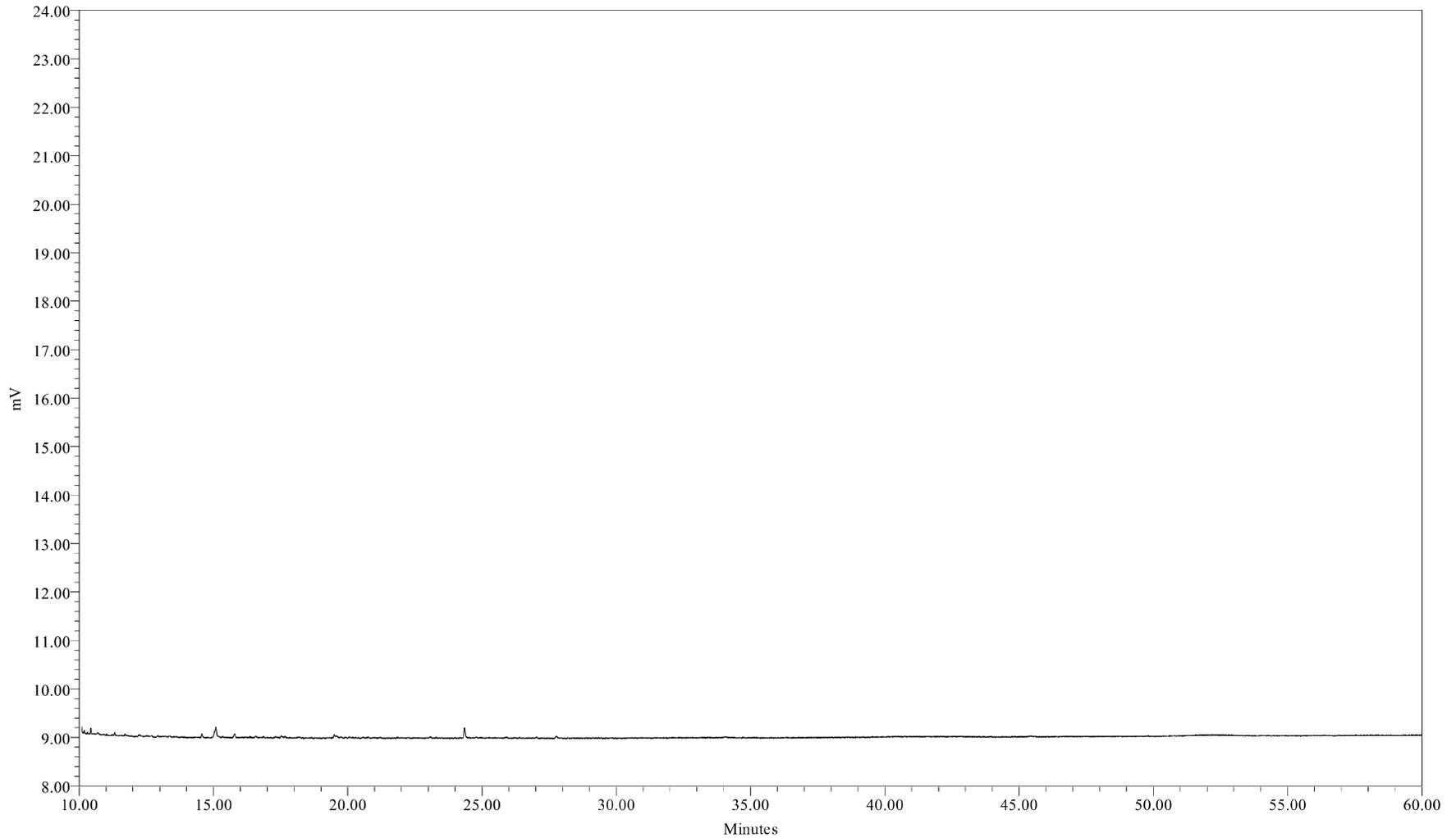
1 of 1



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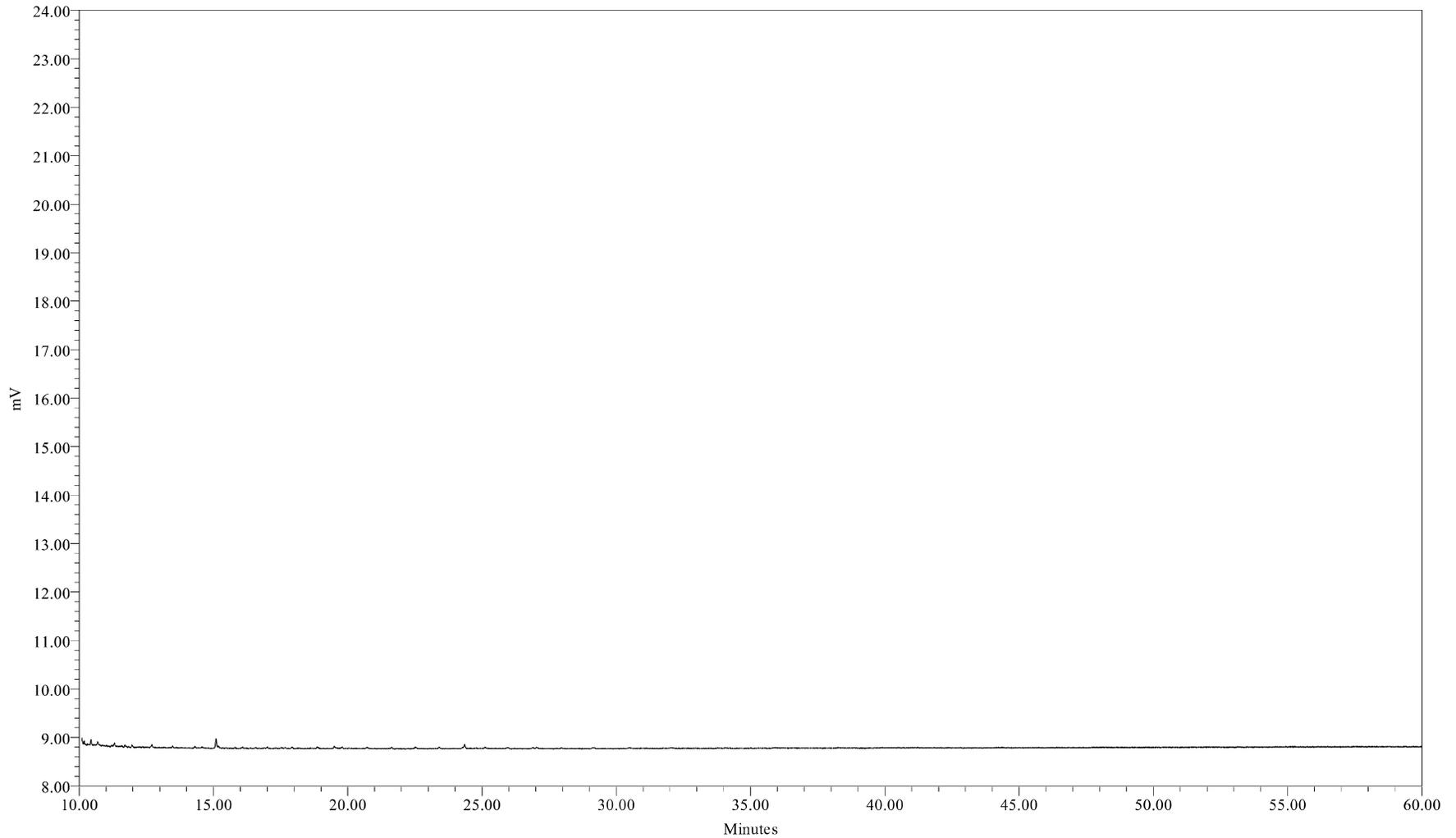


Sample Name: 090531B01  
Sample ID: HEXANE BLANK  
Date Acquired: 05/31/2009 09:17:05 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-1

Sample Name: 090531B01

1 of 1



Sample Name: 090601B03  
Sample ID: HEXANE BLANK  
Date Acquired: 06/01/2009 22:16:53 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSG\_B\_LL1X\_051909  
LIMS File ID: GC24-74-6

Sample Name: 090601B03

1 of 1

# MDL Studies

# Pooled Modified Green Bay Method MDL 8 Liter

Compiled May 2009

Matrix	Category	Analyte Name	CAS Number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
Water Column	PCBs (8 liter)  DB-1 Peak:	Total PCB (sum of congeners)	1336-36-3	Modified Green Bay Mass Balance Method (NEA 207_03)	ng/L	1.00	4.03
		02	2051-60-7	NEA 207_03	ng/L	0.050	0.274
		03	2051-61-8	NEA 207_03	ng/L	0.986	125
		04	2051-62-9	NEA 207_03	ng/L	0.0333	0.160
		05	13029-08-8 33146-45-1	NEA 207_03	ng/L	0.0153	0.0777
		06	33284-50-3 34883-39-1	NEA 207_03	ng/L	0.00574	0.0274
		07	25569-80-6	NEA 207_03	ng/L	0.00952	0.0434
		08	16605-91-7 34883-43-7	NEA 207_03	ng/L	0.0422	0.320
		09	34883-41-5	NEA 207_03	ng/L	0.0302	3.13
		10	38444-73-4	NEA 207_03	ng/L	0.00277	0.0128
		11	35693-92-6	NEA 207_03	ng/L	0.0281	3.13
		12	2050-67-1	NEA 207_03	ng/L	0.0332	3.13
		13	2974-92-7 2974-90-5	NEA 207_03	ng/L	0.00671	0.0122
		14	2050-68-2 37680-65-2	NEA 207_03	ng/L	0.0133	0.0845
		15	37680-66-3	NEA 207_03	ng/L	0.0185	0.0845
		16	55702-45-9 38444-76-7	NEA 207_03	ng/L	0.00424	0.00594
		17	38444-78-9 38444-77-8	NEA 207_03	ng/L	0.0126	0.0891
		19	55720-44-0 37680-68-5 15968-05-5	NEA 207_03	ng/L	0.0255	3.13
		20	15862-07-4	NEA 207_03	ng/L	0.00271	0.00271
		21	38444-81-4	NEA 207_03	ng/L	0.00425	0.0164
		22	55712-37-3	NEA 207_03	ng/L	0.00326	0.00793
		23	16606-02-3	NEA 207_03	ng/L	0.0384	0.0942
		24	7012-37-5 62796-65-0	NEA 207_03	ng/L	0.0284	0.121
		25	38444-84-7 55702-46-0 38444-86-9 41464-41-9	NEA 207_03	ng/L	0.0175	0.0907
		26	38444-85-8 68194-04-7	NEA 207_03	ng/L	0.0140	0.0662
		27	70362-45-7	NEA 207_03	ng/L	0.00817	0.0203
		28	38444-87-0	NEA 207_03	ng/L	0.0283	3.13
		29	41464-47-5	NEA 207_03	ng/L	0.0127	0.0127
		30	38444-88-1	NEA 207_03	ng/L	0.0335	3.13
		31	35693-99-3 60233-24-1 74338-23-1	NEA 207_03	ng/L	0.0180	0.109
		32	70362-46-8 41464-40-8	NEA 207_03	ng/L	0.00923	0.0525
		33	53555-66-1 2437-79-8	NEA 207_03	ng/L	0.0122	0.0228
		34	70362-47-9 32598-12-2	NEA 207_03	ng/L	0.00809	0.0228
		35	54230-22-7 33284-54-7	NEA 207_03	ng/L	0.0342	3.13
		36	37680-69-6	NEA 207_03	ng/L	0.0324	3.13
		37	56558-16-8 41464-39-5	NEA 207_03	ng/L	0.0175	0.0982
		38	38444-90-5 36559-22-5 74472-33-6	NEA 207_03	ng/L	0.0166	0.0594
		39	52663-59-9 52663-58-8 41464-46-4 41464-42-0	NEA 207_03	ng/L	0.0130	0.0937
		41	73575-52-7 73575-54-9	NEA 207_03	ng/L	0.0259	3.13
		42	38444-93-8	NEA 207_03	ng/L	0.0120	0.0215
		43	70424-67-8 60145-21-3	NEA 207_03	ng/L	0.0198	3.13

Matrix	Category	Analyte Name	CAS Number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		44	41464-49-7 73575-53-8 39485-83-1	NEA 207_03	ng/L	0.00345	0.00503
		45	74472-34-7	NEA 207_03	ng/L	0.00520	0.00520
		46	32690-93-0 73575-55-0 33284-53-6	NEA 207_03	ng/L	0.00685	0.0434
		47	32598-11-1	NEA 207_03	ng/L	0.0159	0.0777
		48	32598-10-0 70362-48-0 60233-25-2 33284-52-5 73575-56-1 38379-99-6 68194-06-9 55215-17-3	NEA 207_03	ng/L	0.0596	0.164
		49	74338-24-2 68194-05-8 56558-18-0	NEA 207_03	ng/L	0.00312	0.0117
		50	41464-43-1 33025-41-1	NEA 207_03	ng/L	0.0301	0.0799
		51	52663-60-2 52663-61-3 33979-03-2	NEA 207_03	ng/L	0.0150	0.0411
		52	73575-57-2	NEA 207_03	ng/L	0.00741	0.00741
		53	68194-07-0 37680-73-2	NEA 207_03	ng/L	0.00631	0.0411
		54	41464-48-6 38380-01-7 68194-10-5	NEA 207_03	ng/L	0.00363	0.0169
		55	56558-17-9 68194-08-1	NEA 207_03	ng/L	0.000850	0.00128
		56	70362-49-1 60145-20-2 74472-36-9 70362-41-3	NEA 207_03	ng/L	0.00458	0.00685
		57	41464-51-1 68194-09-2 55312-69-1	NEA 207_03	ng/L	0.0075	0.0128
		58	70362-50-4 38380-02-8 68194-11-06 74472-39-2 39635-32-0 74472-38-1 74472-40-5	NEA 207_03	ng/L	0.00689	0.0265
		59	18259-05-7 65510-45-4	NEA 207_03	ng/L	0.0069	0.0160
		60	68194-12-7 38411-22-2	NEA 207_03	ng/L	0.00759	0.0171
		61	32598-13-3 38380-03-9 74472-41-6	NEA 207_03	ng/L	0.0137	0.0487
		62	60145-22-4	NEA 207_03	ng/L	0.0312	3.13
		63	52663-62-4	NEA 207_03	ng/L	0.00241	0.0100
		64	52663-63-5	NEA 207_03	ng/L	0.00580	0.0388
		65	70424-70-3 52744-13-5	NEA 207_03	ng/L	0.00185	0.00663
		66	68194-14-9	NEA 207_03	ng/L	0.00423	0.0137
		67	70424-68-9 74472-35-8 68194-13-8	NEA 207_03	ng/L	0.00374	0.00594
		68	65510-44-3	NEA 207_03	ng/L	0.0215	3.13
		69	70424-69-0 31508-00-6 56030-56-9 38380-04-0	NEA 207_03	ng/L	0.0136	0.0914
		70	59291-64-4	NEA 207_03	ng/L	0.0210	3.13
		71	74472-37-0 52704-70-8 68194-15-0	NEA 207_03	ng/L	0.00451	0.00461
		72	76842-07-4 61798-70-7 35694-04-3 41411-61-4	NEA 207_03	ng/L	0.00142	0.00142

Matrix	Category	Analyte Name	CAS Number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		73	51908-16-8 74472-46-1 74487-85-7	NEA 207_03	ng/L	0.00484	0.00891
		74	32598-14-4 38380-05-1 74472-43-8	NEA 207_03	ng/L	0.00529	0.0309
		75	35065-27-1	NEA 207_03	ng/L	0.0100	0.0673
		76	39635-33-1 59291-65-5 74472-48-3	NEA 207_03	ng/L	0.0330	3.13
		77	52712-04-6	NEA 207_03	ng/L	0.0123	0.0388
		78	52663-64-6	NEA 207_03	ng/L	0.00878	0.0334
		79	35694-06-5	NEA 207_03	ng/L	0.00611	0.00611
		80	52663-66-8 52663-65-7	NEA 207_03	ng/L	0.00190	0.00594
		82	35065-28-2 74472-44-9 74472-45-0	NEA 207_03	ng/L	0.00813	0.0617
		83	74472-42-7 41411-62-5 74472-49-4	NEA 207_03	ng/L	0.00326	0.00571
		84	57465-28-8 55215-18-4	NEA 207_03	ng/L	0.000301	0.000591
		85	41411-63-6 52663-67-9	NEA 207_03	ng/L	0.00590	0.0251
		87	40186-70-7 39635-35-3	NEA 207_03	ng/L	0.00462	0.00914
		88	60145-23-5 52663-68-0	NEA 207_03	ng/L	0.0133	0.0822
		89	38380-07-3 39635-34-2	NEA 207_03	ng/L	0.00278	0.00457
		90	52663-69-1	NEA 207_03	ng/L	0.00541	0.0388
		91	52663-72-6	NEA 207_03	ng/L	0.00358	0.00358
		92	52712-05-7	NEA 207_03	ng/L	0.00216	0.0107
		93	38411-25-5 74472-47-2	NEA 207_03	ng/L	0.00951	0.0731
		94	52663-70-4	NEA 207_03	ng/L	0.00745	0.0388
		95	38380-08-4 52663-71-5	NEA 207_03	ng/L	0.0132	0.0180
		96	69782-90-7 2136-99-4	NEA 207_03	ng/L	0.00177	0.00177
		98	68194-16-1	NEA 207_03	ng/L	0.00413	0.00413
		99	40186-71-8	NEA 207_03	ng/L	0.00200	0.00891
		100	52663-74-8 74472-52-9	NEA 207_03	ng/L	0.0434	0.0434
		101	74472-51-8 33091-17-7	NEA 207_03	ng/L	0.00777	0.00777
		102	35065-29-3	NEA 207_03	ng/L	0.0176	0.139
		103	69782-91-8	NEA 207_03	ng/L	0.00905	0.00959
		104	74472-50-7	NEA 207_03	ng/L	0.00245	0.00548
		105	52663-73-7 32774-16-6	NEA 207_03	ng/L	0.00260	0.00982
		106	35065-30-6	NEA 207_03	ng/L	0.00399	0.0292
		107	41411-64-7	NEA 207_03	ng/L	0.0119	0.0119
		108	68194-17-2	NEA 207_03	ng/L	0.00197	0.00548
		109	52663-75-9	NEA 207_03	ng/L	0.0144	0.0959
		110	42740-50-1 52663-76-0	NEA 207_03	ng/L	0.0174	0.0982
		111	39635-31-9	NEA 207_03	ng/L	0.00313	0.00313
		112	52663-78-2	NEA 207_03	ng/L	0.00287	0.0126
		113	52663-77-1	NEA 207_03	ng/L	0.00722	0.0113
		114 (surrogate)	52663-79-3	NEA 207_03	ng/L	0.00251	0.00425
		115	35694-08-7	NEA 207_03	ng/L	0.0121	0.0411
		116	74472-53-0	NEA 207_03	ng/L	0.00783	0.00783
		117	40186-72-9	NEA 207_03	ng/L	0.00316	0.0155
		118	2051-24-3	NEA 207_03	ng/L	0.00131	0.00133

Note:

\*\* - Peak 114 corresponds to IUPAC 207, which is the surrogate.

## Pooled Modified Green Bay Method MDL 1 Liter

Compiled May 2009

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL	
Water Column	PCBs (1 liter)	Total PCB (sum of congeners)	1336-36-3	Modified Green Bay Mass Balance Method (NEA 207_03)	ng/L	9.10	32.2	
		DB-1 Peak:	02	2051-60-7	NEA 207_03	ng/L	0.529	2.19
			03	2051-61-8	NEA 207_03	ng/L	6.63	1000
			04	2051-62-9	NEA 207_03	ng/L	0.355	1.28
			05	13029-08-8 33146-45-1	NEA 207_03	ng/L	0.134	0.621
			06	33284-50-3 34883-39-1	NEA 207_03	ng/L	0.0721	0.219
			07	25569-80-6	NEA 207_03	ng/L	0.158	0.347
			08	16605-91-7 34883-43-7	NEA 207_03	ng/L	0.542	2.56
			09	34883-41-5	NEA 207_03	ng/L	0.294	25.0
			10	38444-73-4	NEA 207_03	ng/L	0.0604	0.102
			11	35693-92-6	NEA 207_03	ng/L	0.198	25.0
			12	2050-67-1	NEA 207_03	ng/L	0.306	25.0
			13	2974-92-7 2974-90-5	NEA 207_03	ng/L	0.0559	0.0975
			14	2050-68-2 37680-65-2	NEA 207_03	ng/L	0.128	0.676
			15	37680-66-3	NEA 207_03	ng/L	0.143	0.676
			16	55702-45-9 38444-76-7	NEA 207_03	ng/L	0.0374	0.047
			17	38444-78-9 38444-77-8	NEA 207_03	ng/L	0.166	0.713
			19	55720-44-0 37680-68-5 15968-05-5	NEA 207_03	ng/L	0.128	25.0
			20	15862-07-4	NEA 207_03	ng/L	0.0108	0.0194
			21	38444-81-4	NEA 207_03	ng/L	0.0606	0.132
			22	55712-37-3	NEA 207_03	ng/L	0.0426	0.0585
			23	16606-02-3	NEA 207_03	ng/L	0.487	0.753
			24	7012-37-5 62796-65-0	NEA 207_03	ng/L	0.211	0.964
			25	38444-84-7 55702-46-0 38444-86-9 41464-41-9	NEA 207_03	ng/L	0.105	0.726
			26	38444-85-8 68194-04-7	NEA 207_03	ng/L	0.120	0.530
			27	70362-45-7	NEA 207_03	ng/L	0.0367	0.163
			28	38444-87-0	NEA 207_03	ng/L	0.375	25.0
			29	41464-47-5	NEA 207_03	ng/L	0.127	0.127
			30	38444-88-1	NEA 207_03	ng/L	0.120	25.0
			31	35693-99-3 60233-24-1 74338-23-1	NEA 207_03	ng/L	0.204	0.872
			32	70362-46-8 41464-40-8	NEA 207_03	ng/L	0.0978	0.420
			33	53555-66-1 2437-79-8	NEA 207_03	ng/L	0.0656	0.183
			34	70362-47-9 32598-12-2	NEA 207_03	ng/L	0.0579	0.183
			35	54230-22-7 33284-54-7	NEA 207_03	ng/L	0.205	25.0
			36	37680-69-6	NEA 207_03	ng/L	0.144	25.0
			37	56558-16-8 41464-39-5	NEA 207_03	ng/L	0.160	0.786
			38	38444-90-5 36559-22-5 74472-33-6	NEA 207_03	ng/L	0.115	0.475
			39	52663-59-9 52663-58-8 41464-46-4 41464-42-0	NEA 207_03	ng/L	0.121	0.749
			41	73575-52-7 73575-54-9	NEA 207_03	ng/L	0.115	25.0
			42	38444-93-8	NEA 207_03	ng/L	0.0968	0.172
			43	70424-67-8 60145-21-3	NEA 207_03	ng/L	0.152	25.0
			44	41464-49-7 73575-53-8 39485-83-1	NEA 207_03	ng/L	0.0225	0.0402

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		45	74472-34-7	NEA 207_03	ng/L	0.0299	0.0384
		46	32690-93-0 73575-55-0 33284-53-6	NEA 207_03	ng/L	0.0821	0.347
		47	32598-11-1	NEA 207_03	ng/L	0.164	0.621
		48	32598-10-0 70362-48-0 60233-25-2 33284-52-5 73575-56-1 38379-99-6 68194-06-9 55215-17-3	NEA 207_03	ng/L	0.243	1.32
		49	74338-24-2 68194-05-8 56558-18-0	NEA 207_03	ng/L	0.0376	0.093
		50	41464-43-1 33025-41-1	NEA 207_03	ng/L	0.359	0.640
		51	52663-60-2 52663-61-3 33979-03-2	NEA 207_03	ng/L	0.0888	0.329
		52	73575-57-2	NEA 207_03	ng/L	0.0384	0.0384
		53	68194-07-0 37680-73-2	NEA 207_03	ng/L	0.0691	0.329
		54	41464-48-6 38380-01-7 68194-10-5	NEA 207_03	ng/L	0.101	0.135
		55	56558-17-9 68194-08-1	NEA 207_03	ng/L	0.00644	0.0102
		56	70362-49-1 60145-20-2 74472-36-9 70362-41-3	NEA 207_03	ng/L	0.0647	0.0647
		57	41464-51-1 68194-09-2 55312-69-1	NEA 207_03	ng/L	0.0435	0.102
		58	70362-50-4 38380-02-8 68194-11-06 74472-39-2 39635-32-0 74472-38-1 74472-40-5	NEA 207_03	ng/L	0.0841	0.212
		59	18259-05-7 65510-45-4	NEA 207_03	ng/L	0.0484	0.128
		60	68194-12-7 38411-22-2	NEA 207_03	ng/L	0.0772	0.137
		61	32598-13-3 38380-03-9 74472-41-6	NEA 207_03	ng/L	0.0668	0.389
		62	60145-22-4	NEA 207_03	ng/L	0.113	25.0
		63	52663-62-4	NEA 207_03	ng/L	0.0201	0.0804
		64	52663-63-5	NEA 207_03	ng/L	0.0518	0.311
		65	70424-70-3 52744-13-5	NEA 207_03	ng/L	0.0149	0.0530
		66	68194-14-9	NEA 207_03	ng/L	0.0541	0.110
		67	70424-68-9 74472-35-8 68194-13-8	NEA 207_03	ng/L	0.0348	0.0475
		68	65510-44-3	NEA 207_03	ng/L	0.125	25.0
		69	70424-69-0 31508-00-6 56030-56-9 38380-04-0	NEA 207_03	ng/L	0.0938	0.731
		70	59291-64-4	NEA 207_03	ng/L	0.0829	25.0
		71	74472-37-0 52704-70-8 68194-15-0	NEA 207_03	ng/L	0.0348	0.0369
		72	76842-07-4 61798-70-7 35694-04-3 41411-61-4	NEA 207_03	ng/L	0.00638	0.0106
		73	51908-16-8 74472-46-1 74487-85-7	NEA 207_03	ng/L	0.0320	0.0713
		74	32598-14-4 38380-05-1 74472-43-8	NEA 207_03	ng/L	0.0721	0.248

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		75	35065-27-1	NEA 207_03	ng/L	0.109	0.538
		76	39635-33-1 59291-65-5 74472-48-3	NEA 207_03	ng/L	0.107	25.0
		77	52712-04-6	NEA 207_03	ng/L	0.064	0.311
		78	52663-64-6	NEA 207_03	ng/L	0.0470	0.267
		79	35694-06-5	NEA 207_03	ng/L	0.0501	0.0501
		80	52663-66-8 52663-65-7	NEA 207_03	ng/L	0.0151	0.0475
		82	35065-28-2 74472-44-9 74472-45-0	NEA 207_03	ng/L	0.108	0.493
		83	74472-42-7 41411-62-5 74472-49-4	NEA 207_03	ng/L	0.0450	0.0457
		84	57465-28-8 55215-18-4	NEA 207_03	ng/L	0.00310	0.00473
		85	41411-63-6 52663-67-9	NEA 207_03	ng/L	0.0677	0.201
		87	40186-70-7 39635-35-3	NEA 207_03	ng/L	0.0156	0.0731
		88	60145-23-5 52663-68-0	NEA 207_03	ng/L	0.102	0.658
		89	38380-07-3 39635-34-2	NEA 207_03	ng/L	0.0199	0.0366
		90	52663-69-1	NEA 207_03	ng/L	0.0679	0.311
		91	52663-72-6	NEA 207_03	ng/L	0.0348	0.0348
		92	52712-05-7	NEA 207_03	ng/L	0.0225	0.0859
		93	38411-25-5 74472-47-2	NEA 207_03	ng/L	0.102	0.585
		94	52663-70-4	NEA 207_03	ng/L	0.0936	0.311
		95	38380-08-4 52663-71-5	NEA 207_03	ng/L	0.0871	0.144
		96	69782-90-7 2136-99-4	NEA 207_03	ng/L	0.00942	0.0121
		98	68194-16-1	NEA 207_03	ng/L	0.0133	0.0139
		99	40186-71-8	NEA 207_03	ng/L	0.0863	0.0863
		100	52663-74-8 74472-52-9	NEA 207_03	ng/L	0.127	0.127
		101	74472-51-8 33091-17-7	NEA 207_03	ng/L	0.217	0.217
		102	35065-29-3	NEA 207_03	ng/L	0.150	1.11
		103	69782-91-8	NEA 207_03	ng/L	0.0640	0.0768
		104	74472-50-7	NEA 207_03	ng/L	0.0374	0.0438
		105	52663-73-7 32774-16-6	NEA 207_03	ng/L	0.0460	0.0786
		106	35065-30-6	NEA 207_03	ng/L	0.0538	0.234
		107	41411-64-7	NEA 207_03	ng/L	0.0213	0.0768
		108	68194-17-2	NEA 207_03	ng/L	0.0324	0.0438
		109	52663-75-9	NEA 207_03	ng/L	0.116	0.768
		110	42740-50-1 52663-76-0	NEA 207_03	ng/L	0.184	0.786
		111	39635-31-9	NEA 207_03	ng/L	0.0231	0.0231
		112	52663-78-2	NEA 207_03	ng/L	0.0368	0.101
		113	52663-77-1	NEA 207_03	ng/L	0.0438	0.0902
		114 (surrogate)	52663-79-3	NEA 207_03	ng/L	0.0154	0.0340
		115	35694-08-7	NEA 207_03	ng/L	0.0969	0.329
		116	74472-53-0	NEA 207_03	ng/L	0.0838	0.084
		117	40186-72-9	NEA 207_03	ng/L	0.0384	0.124
		118	2051-24-3	NEA 207_03	ng/L	0.0126	0.0126

Note:

\*\* - Peak 114 corresponds to IUPAC 207, which is the surrogate.

# Particulate Organic Carbon

**Form 1**  
**PARTICULATE ORGANIC CARBON (POC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050311  
**Instrument ID:** DC-190

NEA Sample ID	Client Sample ID	Matrix	Date Received	Date Analyzed	Concentration	Units	Concentration Qualifier	Qualifier
AM06249	WFF-THIS-090527-BT001	Water	05/29/2009	05/30/2009	0.381	mg/L		

**Form 2**  
**CONTINUING CALIBRATION VERIFICATION SUMMARY**  
**PARTICULATE ORGANIC CARBON (POC)**

**Laboratory Name:** Northeast Analytical, Inc.

**ELAP ID No:** NYS ELAP #11078

**SDG No:** 09050311

**Instrument ID:** DC-190

**Continuing Calibration Source  
(NIST traceable):** RICCA TOC 2901492

**Units:** ug

**True Concentration:** 70.0

NEA Sample ID	Date Analyzed	Found	Percent <sup>1</sup> Recovery
POC CCV-01	05/30/2009	67.4	96.3
POC CCV-02	05/30/2009	65.6	93.7

<sup>1</sup>Control Limits : 85% to 115%

**Form 3**

**CONTINUING CALIBRATION BLANK VERIFICATION SUMMARY  
PARTICULATE ORGANIC CARBON (POC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050311  
**Instrument ID:** DC-190

<b>Continuing Calibration Blank</b>			
<b>NEA Sample ID</b>	<b>Date Analyzed</b>	<b>Concentration (mg/L)</b>	<b>Concentration Qualifier</b>
CCB-01	05/30/2009	72.0	U
CCB-02	05/30/2009	72.0	U

**Form 4**  
**SPIKE SAMPLE RECOVERY SUMMARY**  
**PARTICULATE ORGANIC CARBON (POC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050311  
**Instrument ID:** DC-190  
**Matrix:** Water  
**NEA Sample ID:** AM06270M  
**NEA LRF ID:** 09050314-03MS  
**Date Analyzed:** 05/30/2009

Sample Result	Concentration Qualifier	Sample Spiked Result	Concentration Qualifier	Spike Added	Units	Percent Recovery	Control Limit % Rec	Qualifier	RPD	RPD Flag	Control Limit
0.902		2.85		3.125	mg/L	62.3	60-140		NA		NA

**Form 5**  
**DUPLICATE SAMPLE SUMMARY**  
**PARTICULATE ORGANIC CARBON (POC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050311  
**Instrument ID:** DC-190  
**Matrix:** Water  
**NEA Sample ID:** AM06270D  
**NEA LRF ID:** 09050314-03  
**Date Analyzed:** 05/30/2009

Sample Result	Concentration Qualifier	Duplicate Result	Concentration Qualifier	Units	RPD	Max RPD	Qualifier
0.902		0.985		mg/L	8.8	20	

**Form 6**  
**PREPARATION BLANK**  
**PARTICULATE ORGANIC CARBON (POC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050311  
**Instrument ID:** DC-190  
**Matrix:** Water  
**NEA Sample ID:** AM06270PB  
**NEA LRF ID:** 09050314-03  
**Date Analyzed:** 05/30/2009

<b>Blank Result (mg/L)</b>	<b>Concentration Qualifier</b>	<b>Qualifier</b>
0.0630	U	

# TOTAL ORGANIC CARBON LOGBOOK

Batch ID: 411      Date: 04/13/2009      Instrument: DC-190      Calibration Date: 04/13/2009      Analyst: Judith Kricheff

Oxygen flow (psig): 30      Range: HIGH      Inverse Slope: 0.00171      Intercept: NA  
 Baseline value: 1.82      CCV Std Lot: 1847-16 Lot# 2708196      Blank Area: 1577



Prep ID	NEA Sample ID	Alt Sample ID	Used	Matrix	Boat Num	Dilution Factor	Acid Added	Sample Wt (g)	Sample Vol (mL)	Area	TOC Results (ppm)	Spike Conc (ug)	% Rec	RPD	% RSD	Comments
16360	CCB-00		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	1636	<72					
16361	CCB-00		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	1518	<72					
16348	Cal Std-1-01		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	4865	80.3210	4.99				
16349	Cal Std-1-01		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	4740	77.2680	4.99				
16350	Cal Std-2-02		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	7712	149.869	10.04				
16351	Cal Std-2-02		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	7669	148.819	10.04				
16352	Cal Std-3-03		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	59440	1413.51	100.11				
16353	Cal Std-3-03		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	59290	1409.85	100.11				
16354	Cal Std-4-04		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	148600	3591.56	250.03				
16355	Cal Std-4-04		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	147200	3557.36	250.03				
16356	Cal Std-5-05		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	289500	7033.55	500.06				
16357	Cal Std-5-05		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	284100	6901.63	500.06				
16358	Cal Std-6-06		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	474800	11560.2	799.9				
16359	Cal Std-6-06		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	470800	11462.4	799.9				

\* Results are based on a dry weight basis.

Analyst Review: *Judith Kricheff*

QA Review: *MA 4/20/09*

Print Date: 04/17/2009  
 NEA Logo Version: 4.0.0.0  
 TCOI\_TOC\_TORDOC Rev 02-11-04 2006 INDOX  
 Page 137 of 144

# Northeast Analytical Inc.

Date: 04/13/09

Analytical Worksheet for TOC in Solids

File ID: S:\Lab Data\METALS\TOC\Data 09\TOCDC190calibration041309.xls\A

Calibration Date: 04/13/09

rev. 12/04/01wk

Blank  
Corrected

Cal. Standards: ID#	Absorption Y(x)	Concentration x-ug	Calculated concentration	% Recovery
5.04	3225.5	5.04	5.53	109.7%
10.08	6113.500	10.08	10.48	104%
100.8	57788.00	100.80	99.06	98%
250.32	146323	250.32	250.84	100%
500.08	285223.0	500.08	488.95	98%
800.8	471223.0	800.80	807.80	100.9%

Cal. Level (ug)	Replicate 1	Replicate 2	Average	%RPD
Blank	1636	1518	1577	7.48
5.04	4865	4740	3225.5	2.60
10.08	7712	7669	6113.5	0.6
100.8	59440	59290	57788	0.253
250.32	148600	147200	146323	0.95
500.08	289500	284100	285223	1.883
800.8	474800	470800	471223	0.846

Calibration Blank Absorption= 1577



## SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.999824677
R Square	0.999649385
Adjusted R Square	0.799649385
Standard Error	3467.037226
Observations	6

## ANOVA

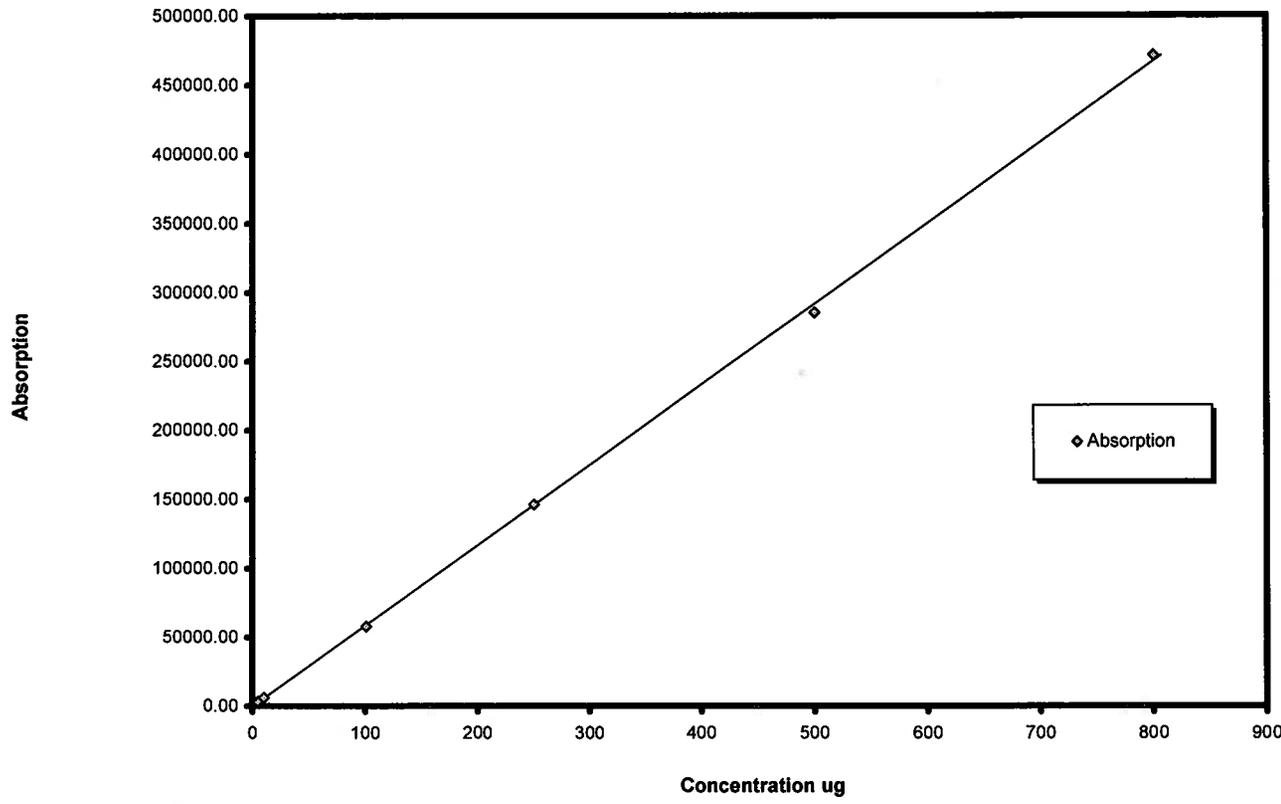
	df	SS	MS	F	Significance F
Regression	1	1.71358E+11	1.71358E+11	14255.64354	2.95104E-08
Residual	5	60101735.64	12020347.13		
Total	6	1.71418E+11			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	583.3405397	3.53061637	165.223428	1.5409E-10	574.2648162	592.4162632

Inverse Slope= 0.00171

Theoretical Conc. ug	Calculated Calc. Conc. ug	Absorption Response
5.04	5.53	3225.50
10.08	10.48	6113.50
100.8	99.06	57788.00
250.32	250.84	146323.00
500.08	488.95	285223.00
800.8	807.80	471223

**CALIBRATION CURVE**  
**04/13/2009**



# PARTICULATE ORGANIC CARBON LOGBOOK

Batch ID: 258      Date: 05/30/2009      Instrument: DC-190      Calibration Date: 04/13/2009      Analyst: Jonathan Jordan

Oxygen flow (psig): 30      Range: HIGH      Inverse Slope: 0.00171      Intercept: NA  
 Baseline value: 2.00      CCV Std Lot: RICCA TOC 2901492      Blank Area: 1577



Prep ID	NEA Sample ID	Alt Sample ID	Used	Matrix	Boat Num	Dilution Factor	Acid Added	Sample Vol (mL)	Area	POC Results (ppm)	Spike Conc (ug)	% Rec	RPD	Comments
6756	CCV-01	AM06270L	<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	0.07	40990	962.803	70	96.3		
6757	CCB-01	AM06270B	<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	0.07	1761	<72				
6753	POC Blank-01	AM06270PB	<input checked="" type="checkbox"/>	L	PB	1	<input checked="" type="checkbox"/>	80	994.4	<0.063				
6739	09050314-03	AM06270	<input checked="" type="checkbox"/>	L	1	1	<input checked="" type="checkbox"/>	80	43790	0.902000				
6754	09050314-03DUP	AM06270D	<input checked="" type="checkbox"/>	L	2	1	<input checked="" type="checkbox"/>	80	47650	0.985000			8.80	
6755	09050314-03MS	AM06270M	<input checked="" type="checkbox"/>	L	3	1	<input checked="" type="checkbox"/>	80	134900	2.85000	250	62.3		
6743	09050311-05	AM06249	<input checked="" type="checkbox"/>	L	9	1	<input checked="" type="checkbox"/>	80	19420	0.381000				
6758	CCV-02	AM06275L	<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	0.07	39950	937.398	70	93.7		
6759	CCB-02	AM06275B	<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	0.07	1386	<72				

Notes: \* Results are based on a dry weight basis.

Analyst Review: *Jonathan Jordan* 5/30/09

QA Review: *JMO* 5/30/09

Print Date: 05/30/2009  
 Nsa Lims Version: 4.4.4.1  
 \_WL\_POC\_LOGBOOK, Rev 02; 11.03.2006; INORG



**CERTIFICATE OF ANALYSIS**  
**05/30/2009**  
**GENERAL ELECTRIC COMPANY**  
**300 GREAT OAKS OFFICE PARK**  
**SUITE 319**  
**ALBANY, NY 12203**  
**CONTACT: ROBERT GIBSON**



<b>MATRIX:</b>	WATER	<b>PROJECT:</b>	HUDSON RIVER RAMP
<b>DATE RECEIVED:</b>	05/29/2009	<b>TIME:</b>	18:25
<b>SAMPLED BY:</b>	D. REIDY	<b>LOCATION:</b>	NY
<b>CUSTOMER PO:</b>	N/A	<b>LAB ELAP#:</b>	11078
		<b>NEA LRF:</b>	09050311

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Particulate Organic Carbon - RAMP</b>								
AM06249	WFF-THIS-090527-BT001	NE128_06	05/27/2009 10:52	0.381	0.0630		mg/L	05/30/2009

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.  
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

**AUTHORIZED SIGNATURE:**

William A. Kotas  
Sr. Laboratory Representative

Robert E. Wagner  
Laboratory Director

# Dissolved Total Organic Carbon

**Form 1**  
**TOTAL ORGANIC CARBON (TOC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050311  
**Instrument ID:** TOC-V CSH2

NEA Sample ID	Client Sample ID	Matrix	Date Received	Date Analyzed	Concentration	Units	Concentration Qualifier	Qualifier
AM06249	WFF-THIS-090527-BT001	DISS	05/29/2009	05/30/2009	3.80	mg/L		

**Form 2**  
**CONTINUING CALIBRATION VERIFICATION SUMMARY**  
**TOTAL ORGANIC CARBON (TOC)**

**Laboratory Name:** Northeast Analytical, Inc.

**ELAP ID No:** NYS ELAP #11078

**SDG No:** 09050311

**Instrument ID:** TOC-V CSH2

**Continuing Calibration Source  
(NIST traceable):** 053009B7P46

**Units:** mg/L

**True Concentration:** 5.00

NEA Sample ID	Date Analyzed	Found	Percent <sup>1</sup> Recovery
TOC CCV-01	05/30/2009	5.09	102
TOC CCV-02	05/30/2009	4.68	93.7

<sup>1</sup>Control Limits : 85% to 115%

**Form 3**

**CONTINUING CALIBRATION BLANK VERIFICATION SUMMARY  
TOTAL ORGANIC CARBON (TOC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050311  
**Instrument ID:** TOC-V CSH2

<b>Continuing Calibration Blank</b>			
<b>NEA Sample ID</b>	<b>Date Analyzed</b>	<b>Concentration (mg/L)</b>	<b>Concentration Qualifier</b>
CCB-01	05/30/2009	0.500	U
CCB-02	05/30/2009	0.500	U

**Form 4**  
**SPIKE SAMPLE RECOVERY SUMMARY**  
**TOTAL ORGANIC CARBON (TOC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050311  
**Instrument ID:** TOC-V CSH2  
**Matrix:** DISS  
**NEA Sample ID:** AM06270M  
**NEA LRF ID:** 09050314-03MS  
**Date Analyzed:** 05/30/2009

Sample Result	Concentration Qualifier	Sample Spiked Result	Concentration Qualifier	Spike Added	Units	Percent Recovery	Control Limit % Rec	Qualifier	RPD	RPD Flag	Control Limit
3.54		13.3		10	mg/L	97.9	60-140		NA		NA

**Form 5**  
**DUPLICATE SAMPLE SUMMARY**  
**TOTAL ORGANIC CARBON (TOC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050311  
**Instrument ID:** TOC-V CSH2  
**Matrix:** DISS  
**NEA Sample ID:** AM06270D  
**NEA LRF ID:** 09050314-03  
**Date Analyzed:** 05/30/2009

Sample Result	Concentration Qualifier	Duplicate Result	Concentration Qualifier	Units	RPD	Max RPD	Qualifier
3.54		3.57		mg/L	0.912	20	

Date of Creation 8:49:36 AM 3/19/2009  
 User  
 System TOCV csh 2

Cal. Curve

Sample Name: Untitled  
 Sample ID: Untitled  
 Cal. Curve: NPOC dilution.2009\_05\_25\_09\_13\_23.cal  
 Status: Completed  
 Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.5554	50uL	1	*****	E	5/25/2009 9:21:41 A
2	0.4058	50uL	1	*****		5/25/2009 9:23:46 A
3	0.3184	50uL	1	*****		5/25/2009 9:25:51 A

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 0.3621  
 SD Area 0.06180  
 CV Area 17.07%  
 Vial 1

Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	2.633	50uL	10	*****		5/25/2009 9:34:51 A
2	2.735	50uL	10	*****		5/25/2009 9:37:09 A

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 2.684  
 SD Area 0.07212  
 CV Area 2.69%  
 Vial 2

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	5.130	50uL	5	*****		5/25/2009 9:44:23 A
2	5.059	50uL	5	*****		5/25/2009 9:46:44 A

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 5.095  
 SD Area 0.05020  
 CV Area 0.99%  
 Vial 2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	24.74	50uL	1	*****		5/25/2009 9:53:38 A
2	24.85	50uL	1	*****		5/25/2009 9:56:19 A

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 24.80  
 SD Area 0.07778  
 CV Area 0.31%  
 Vial 2

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	50.56	50uL	5	*****		5/25/2009 10:05:56
2	50.43	50uL	5	*****		5/25/2009 10:08:52

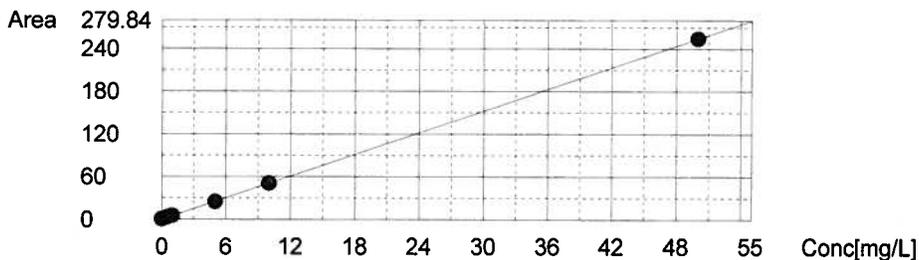
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 50.50  
 SD Area 0.09192  
 CV Area 0.18%  
 Vial 3

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	253.8	50uL	1	*****		5/25/2009 10:16:29
2	255.0	50uL	1	*****		5/25/2009 10:19:32

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 254.4  
 SD Area 0.8485  
 CV Area 0.33%  
 Vial 3

Slope: 5.087  
 Intercept 0.000  
 $r^2$  0.999986  
 r 0.999993  
 Zero Shift Yes



# TOTAL ORGANIC CARBON LOGBOOK



Batch ID: **221**      Date: 05/30/2009    Instrument: TOC-V CSH2    Calibration Date: 05/25/2009    Analyst: Jonathan Jordan

Oxygen flow (psig): 30      Range: LOW      Slope: 5.087      Intercept: 0  
 Baseline value: NA      CCV Std Lot: 053009B7P46      Blank Area: 0.3621

Prep ID	NEA Sample ID	Alt Sample ID	Used	Matrix	Dilution Factor	Acid Added	Sample Vol (mL)	Area	TOC <sup>1</sup> Results (ppm)	TOC <sup>2</sup> Results (ppm)	Spike Conc (ppm)	% Rec	RPD	Comments
9569	CCV-01	AM06270L	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	25.915	N/A	5.09400	5	102		
9570	CCB-01	AM06270B	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	0.6179	N/A	<0.5				
9553	09050314-03	AM06270	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	18	N/A	3.53818				
9567	09050314-03DUP	AM06270D	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	18.165	N/A	3.57062			0.912	
9568	09050314-03MS	AM06270M	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	67.79	N/A	13.3252	10	97.9		
9557	09050311-05	AM06249	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	19.32	N/A	3.79765				
9571	CCV-02	AM06275L	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	23.83	N/A	4.68416	5	93.7		
9572	CCB-02	AM06275B	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	0.5267	N/A	<0.5				

- Note: 1.) Unaveraged TOC results.  
 2.) All TOC results are the average of two analyses.  
 3.) Matrix DISS denotes dissolved or filtered sample.

Analyst Review: Jonathan Jordan 5/30/09      QA Review: me 5/30/09



**CERTIFICATE OF ANALYSIS**  
**05/30/2009**  
**GENERAL ELECTRIC COMPANY**  
**300 GREAT OAKS OFFICE PARK**  
**SUITE 319**  
**ALBANY, NY 12203**  
**CONTACT: ROBERT GIBSON**



**MATRIX:** WATER(DISS)      **PROJECT:** HUDSON RIVER RAMP  
**DATE RECEIVED:** 05/29/2009    **TIME:** 18:25      **LOCATION:** NY  
**SAMPLED BY:** D. REIDY      **LAB ELAP#:** 11078  
**CUSTOMER PO:** N/A      **NEA LRF:** 09050311

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Dissolved Total Organic Carbon - RAMP</b>								
AM06249	WFF-THIS-090527-BT001	NE128_06	05/27/2009 10:52	3.80	0.500		mg/L	05/30/2009

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.  
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

**AUTHORIZED SIGNATURE:**

William A. Kotas  
Sr. Laboratory Representative  
Robert E. Wagner  
Laboratory Director

PCB SAMPLE DATA SUMMARY PACKAGE FOR:

ANCHOR QUANTITATIVE ENVIRONMENTAL ANALYSIS, LLC  
305 WEST GRAND AVENUE  
MONTVALE, NEW JERSEY 07645

TOTAL PCB: GREEN BAY METHOD (NE207\_03.DOC)  
PARTICULATE ORGANIC CARBON (NE128\_06)  
DISSOLVED TOTAL ORGANIC CARBON (NE128\_06)

DATE: May 30, 2009-D

LRF: 09050314

PROVIDED BY : NORTHEAST ANALYTICAL, INC.  
2190 TECHNOLOGY DRIVE  
SCHENECTADY, NEW YORK 12308  
518-346-4592



TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
CASE NARRATIVE .....	4
SAMPLE CHAIN OF CUSTODY .....	7
INTERNAL SAMPLE TRACKING RECORD .....	9
SURROGATE RECOVERY SUMMARY .....	12
LABORATORY CONTROL SPIKE SUMMARY .....	27
MATRIX SPIKE SUMMARY .....	29
METHOD BLANK SUMMARY .....	31
SAMPLE ANALYSIS DATA .....	33
SAMPLE GC INJECTION LOG .....	120
STANDARDS SUMMARY TABLES .....	124
CALIBRATION COMPONENT SUMMARY TABLES .....	173
STANDARDS RAW DATA .....	177
QC SAMPLE RAW DATA .....	222
MDL STUDIES .....	251
PARTICULATE ORGANIC CARBON .....	255
DISSOLVED TOTAL ORGANIC CARBON .....	267

# Case Narrative

June 03, 2009

CASE NARRATIVE

This data package (NEA SDG ID: 09050314) consists of 6 water samples received on 05/29/2009. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AM06268	WFF-BDUP-090529-BT001	05/29/2009
AM06269	WFF-LHAL-090529-BT001	05/29/2009 11:39
AM06270	WFF-LHPO-090529-BT001	05/29/2009 14:38
AM06271	WFF-MOCO-090529-BT001	05/29/2009 10:18
AM06272	WFF-WAFA-090529-BT001	05/29/2009 09:12
AM06273	WFF-WAFO-090529-BT001	05/29/2009 09:01

Sample Delivery and Receipt Conditions

- (1.) Northeast Analytical provided sample pickup service on 05/29/2009.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperatures were recorded at sample receipt: 2.6, 2.3 degrees Celsius.
- (4.) One extra 1L Amber Bottle each of Samples WFF-MOCO-090529-BT001, WFF-WAFA-090529-BT001 and WFF-WAFO-090529-BT001 was received. There was a note about the extra volume on the Chain of Custody, but the extra bottles were not added to the container counts.
- (5.) Samples WFF-LHAL-090529-BT001 AND WFF-LHPO-090529-BT001 were received in bottles without barcodes.

Total PCBs by Green Bay Method (1L)

Analysis for Total PCBs was performed by NEA SOP NE207\_03. Samples were extracted by USEPA SW-846 Method 3535 Solid Phase Extraction. One-liter water samples were extracted by NEA SOP NE178\_03. The following technical and administrative items were noted for the analysis:

- (1.) Note: Hudson River Bias Correction applied (v09/23/2004) to GC Column peaks 5, 8, and 14 (which are comprised of congeners IUPAC 4 and 10; IUPAC 5 and 8; and IUPAC 15 and 18, respectively). Please see SOP NE207\_03 for details.
- (2.) Peak 15, Peak 21, Peak 22, Peak 27, Peak 52, and Peak 57 were observed in the Method Blank sample. All associated positive sample concentration results have been flagged (B) to denote the observed contamination.
- (3.) Original analysis closing check standard failed. All samples were re-analyzed. Results are included in this data package with a filename suffix of RR1.
- (4.) Samples (NEA ID: AM06268 and AM06269) required a dilution for peak 5 to be within the calibration curve range. These analyses are included in this data package with a filename suffix of DL1. The concentration for peak 5 is included in the original analysis to provide correct PCB total concentration.
- (5.) Samples (NEA ID: AM06272 and AM06273) required a dilution for peak 5 and peak 10 to be within the calibration curve range. These analyses are included in this data package with a filename suffix of DL1. The concentrations for peak 5 and peak 10 are included in the original analysis to provide correct PCB total concentration.

S:\Lims Data\0905\09050314\Package\CN\_09050314\_Rev00.doc

(6.) Sample AM06272DL1 was re-analyzed due to chromatographic interference from a non target contaminant pattern originated from the sample injection. The re-analyzed sample name is AM06272DL1RR1.

Particulate Organic Carbon

Analysis for Particulate Organic Carbon was performed by NEA SOP NE128\_06. The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for the analysis.

Dissolved Total Organic Carbon

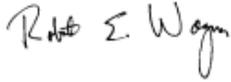
Analysis for Dissolved Total Organic Carbon was performed by NEA SOP NE128\_06. The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for the analysis.

Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the PQL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



Robert E. Wagner  
Laboratory Director & Founder

# Sample Chain Of Custody



305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9890

Client: General Electric Company

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC090529-BNEA-01

Sample Custodian: CS

Lab: NEA

COC Sample Number	Field Sample ID	QA/QC	MS	MSD	LD	Matrix **	Date Collected	Time Collected	Media*	# Containers	4degC	4degC	4degC							
											DOC NE128_05D	POC NE128_05P	CS PCBs NE207_03							
001	WFF-BDUP-090529-BT001	DUP	N	N	N	W	05/29/2009		W	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
002	WFF-LHAL-090529-BT001	ENV	N	N	N	W	05/29/2009	11:39	W	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM06268					
003	WFF-LHPO-090529-BT001	ENV	Y	N	N	W	05/29/2009	14:38	W	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM06269					
004	WFF-MOCO-090529-BT001	ENV	N	N	N	W	05/29/2009	10:18	W	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM06270					
005	WFF-WAFA-090529-BT001	ENV	N	N	N	W	05/29/2009	09:12	W	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM06271					
006	WFF-WAFO-090529-BT001	ENV	N	N	N	W	05/29/2009	09:01	W	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM06272					
											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM06273					

AM06268  
AM06269  
AM06270  
AM06271  
AM06272  
AM06273

Comments: Extra Volume of PCB's at Waterford, Albany, Mohawk River. cooler temps = 2.6°C & 2.3°C

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature: <i>Charles Szaberski</i>	Signature: <i>Mike Calloway</i>	Signature: <i>M. Calloway</i>	Signature: <i>R. Doherty</i>	Signature:	Signature:
Print Name: Charles Szaberski	Print Name: Mike Calloway	Print Name: M. Calloway	Print Name: R. Doherty	Print Name:	Print Name:
Company: Anchor QEA	Company: NEA	Company: NEA	Company: NEA	Company:	Company:
Date/Time: 5/29/09	Date/Time: 5/29/09 1730	Date/Time: 5/29/09 1826	Date/Time: 5/29/09 1825	Date/Time:	Date/Time:

Date Printed: 5/29/2009

\* S = SEDIMENT, W = WATER \*\* T = Total, D = Dissolved, R = Residue  
\*\*\* Air Tight Container; preserved at lab if not analyzed within 48 hrs.

Page 1 of 1

# Internal Sample Tracking Record

# AQUEOUS EXTRACTION LOG



**Prep Date: 05/29/2009**

**Batch ID: 8023**

Initial for required Clean Up Steps

	Prep ID	NEA Sample ID	Alt Sample ID	Client	Extraction Type	Matrix	Sample Amount (g or mL)	TS %	Final Ext. Vol (mL)	Date Ext (MM/DD)	Extract Time On	Extract Time Off	Date Conc (MM/DD)	Initial for required Clean Up Steps			Cell / Unit #	Job	pH	Comments	
														JLG	JLG	JLG					
1	78274	CEBLK-52	AM06270B	GE	SPE-1L	Water	1000	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30		E CON1L	5	
2	78275	LCS-52	AM06270L	GE	SPE-1L	Water	1000	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30		E CON1L	5	
3	78276	09050314-03MS	AM06270M	GE	SPE-1L	Water	1060	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30	L7	E CON1L	5	
4	78263	09050314-01	AM06268	GE	SPE-1L	Water	1040	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30	L4	E CON1L	5	
5	78264	09050314-02	AM06269	GE	SPE-1L	Water	1040	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30	L5	E CON1L	5	
6	78265	09050314-03	AM06270	GE	SPE-1L	Water	1040	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30	L6	E CON1L	5	
7	78266	09050314-04	AM06271	GE	SPE-1L	Water	1060	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30	L8	E CON1L	5	
8	78267	09050314-05	AM06272	GE	SPE-1L	Water	1060	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30		E CON1L	5	
9	78268	09050314-06	AM06273	GE	SPE-1L	Water	1000	NA	5	05/29	NA	NA	05/30	05/30	NA	05/30	05/30		E CON1L	5	

**Solvent, Surrogate, Spike, and Acid Information**

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	050815	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dichloromethane	CY224	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10% Florisil (SPE only)	090304F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone	041409B27P21C	200	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone	042309B27P38A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hexane	CY891	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only) current	090507A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Speedisk (current)	G46N40	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Methanol	49023	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Acetone	CZ366	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SPIKED BY: Heather Gansky

WITNESSED BY: Tara Snay

SIGNATURE:

*Heather Gansky*

SIGNATURE:

*Tara Snay*

# CONGENER AQUEOUS SCREEN SHEET

Batch ID: 8023

Prepared by: Heather Gansky

NEA Sample ID	Alt Sample ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Dilution Sequence	Final Multiplier
CEBLK-52	AM06270B	Water	05/29/09	1000	5	NA	NA	NA	NA
LCS-52	AM06270L	Water	05/29/09	1000	5	NA	↓	↓	↓
09050314-03MS	AM06270M	Water	05/29/09	1060	5	NA		↓	↓
09050314-01	AM06268	Water	05/29/09	1040	5	NA		0.1 → 1mL	50x
09050314-02	AM06269	Water	05/29/09	1040	5	NA		0.1 → 1mL	↓
09050314-03	AM06270	Water	05/29/09	1040	5	NA		NA	NA
09050314-04	AM06271	Water	05/29/09	1060	5	NA		↓	↓
09050314-05	AM06272	Water	05/29/09	1060	5	NA		0.1 → 1mL	50x
09050314-06	AM06273	Water	05/29/09	1000	5	NA		0.1 → 1mL	↓

Solvent, Surrogate, Spike, and Acid Information      B=Blank, L=Lab Control Spike, LD=Lab Control Spike Duplicate, S=Sample, D=Duplicate, M=Matrix Spike, K=Matrix Spike Duplicate

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	050815	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dichloromethane	CY224	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10% Florisil (SPE only)	090304F	NA		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone	041409B27P21C	200	1.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone	042309B27P38A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hexane	CY891	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only) current	090507A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Speedisk (current)	G46N40	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Methanol	49023	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Acetone	CZ366	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

JHG 6/3/09

COMMENTS: \_\_\_\_\_

# Surrogate % Recovery Summary

## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Lab Name: Northeast Analytical, Inc.

SDG No: 09050314

ELAP ID No: 11078

Init. Calib. Date(s): 05/20/2009

GC Column (1): PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.2

Instrument ID: GC24

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS:							
IUPAC 207: <u>39.77</u>							
	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)
01	ICAL 6.25 ng/mL	ICAL0519A	GC24-62-3	05/20/2009 03:01:51			
02	ICAL 12.5 ng/mL	ICAL0519B	GC24-62-4	05/20/2009 04:07:16			
03	ICAL 125 ng/mL	ICAL0519C	GC24-62-5	05/20/2009 05:12:42			
04	ICAL 314 ng/mL	ICAL0519D	GC24-62-6	05/20/2009 06:18:07			
05	ICAL 627 ng/mL	ICAL0519E	GC24-62-7	05/20/2009 07:23:30			
06	SUP CONG STD 200/5 ng/mL	SC0519A	GC24-62-9	05/20/2009 09:34:29			
07	Surr Std (207) 2.0 ng/mL	SS0519A	GC24-62-10	05/20/2009 10:39:55			
08	Surr Std (207) 20.0 ng/mL	SS0519B	GC24-62-11	05/20/2009 11:45:24			
09	HEXANE BLANK	090531B01	GC24-73-1	05/31/2009 09:17:05			
10	CCC Std 122 ng/mL	CCCS0531A	GC24-73-2	05/31/2009 10:22:41			
11	WFF-BDUP-090529-BT001	AM06268DL1	GC24-73-3	05/31/2009 11:43:47	39.77	0.00	99.3
12	WFF-LHAL-090529-BT001	AM06269DL1	GC24-73-4	05/31/2009 12:49:27	39.76	-0.01	103
13	WFF-WAFO-090529-BT001	AM06273DL1	GC24-73-6	05/31/2009 15:00:50	39.76	-0.01	102
14	CEBLK-52(METHOD BLANK)	AM06270BRR1	GC24-73-7	05/31/2009 16:06:28	39.77	0.00	84.8
15	LCS-52(LAB CONTROL SPIKE)	AM06270LRR1	GC24-73-8	05/31/2009 17:12:09	39.77	0.00	84.4
16	WFF-WAFA-090529-BT001	AM06272RR1	GC24-73-9	05/31/2009 18:17:49	39.77	0.00	82.7
17	WFF-WAFO-090529-BT001	AM06273RR1	GC24-73-10	05/31/2009 19:23:25	39.77	0.00	81.8
18	WFF-BDUP-090529-BT001	AM06268RR1	GC24-73-11	05/31/2009 20:29:12	39.77	0.00	81.5
19	CCC Std 122 ng/mL	CCCS0531B	GC24-73-12	05/31/2009 21:34:42			
20	WFF-LHAL-090529-BT001	AM06269RR1	GC24-73-13	05/31/2009 22:40:04	39.76	-0.01	81.1
21	WFF-LHPO-090529-BT001	AM06270RR1	GC24-73-14	05/31/2009 23:45:28	39.77	0.00	85.3
22	WFF-LHPO-090529-BT001 MS	AM06270MRR1	GC24-73-15	06/01/2009 00:50:51	39.76	-0.01	85.2
23	WFF-MOCO-090529-BT001	AM06271RR1	GC24-73-16	06/01/2009 01:56:13	39.76	-0.01	81.2
24	CCC Std 122 ng/mL	CCCS0531C	GC24-73-17	06/01/2009 03:01:32			
25	WFF-WAFA-090529-BT001	AM06272DL1RR1	GC24-73-18	06/01/2009 04:06:51	39.75	-0.02	104
26	CCC Std 122 ng/mL	CCCS0531D	GC24-73-19	06/01/2009 05:12:09			



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, New York 12308  
Phone:(518) 346-4592 Fax:(518) 381-6055  
www.nealab.com

---

Sample Name:	AM06270BRR1	Sample Amount:	1.000 L
Sample ID:	METHOD BLANK	Dilution:	5
Date Acquired:	05/31/2009 16:06:28	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 09:23:01
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_051909	Current Time:	13:22:57
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-7

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.77	146798	16.950	84.8
2	I.S. (OCN)	45.42	152282	3.636	



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, New York 12308  
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Sample Name:	AM06270LRR1	Sample Amount:	1.000 L
Sample ID:	LAB CONTROL SPIKE	Dilution:	5
Date Acquired:	05/31/2009 17:12:09	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 09:23:09
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_051909	Current Time:	13:22:57
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-8

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.77	142174	16.879	84.4
2	I.S. (OCN)	45.42	148109	3.636	



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, New York 12308  
Phone:(518) 346-4592 Fax:(518) 381-6055  
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Sample Name:	AM06270MRR1	Sample Amount:	1.060 L
Sample ID:	WFF-LHPO-090529-BT001 MS	Dilution:	5
Date Acquired:	06/01/2009 00:50:51	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 12:32:25
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_051909	Current Time:	13:22:58
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-15

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	151184	17.033	85.2
2	I.S. (OCN)	45.40	156069	3.854	



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Sample Name:	AM06268RR1	Sample Amount:	1.040 L
Sample ID:	WFF-BDUP-090529-BT001	Dilution:	5
Date Acquired:	05/31/2009 20:29:12	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 12:56:33
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_051909	Current Time:	13:22:58
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-11

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.77	142265	16.300	81.5
2	I.S. (OCN)	45.41	153467	3.781	



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Sample Name:	AM06268DL1	Sample Amount:	1.040 L
Sample ID:	WFF-BDUP-090529-BT001	Dilution:	50
Date Acquired:	05/31/2009 11:43:47	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 12:20:59
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_051909	Current Time:	13:22:57
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-3

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.77	16150	1.986	99.3
2	I.S. (OCN)	45.40	142952	0.378	



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Sample Name:	AM06269RR1	Sample Amount:	1.040 L
Sample ID:	WFF-LHAL-090529-BT001	Dilution:	5
Date Acquired:	05/31/2009 22:40:04	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 12:40:11
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_051909	Current Time:	13:22:58
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-13

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	141718	16.212	81.1
2	I.S. (OCN)	45.40	153705	3.781	



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Sample Name:	AM06269DL1	Sample Amount:	1.040 L
Sample ID:	WFF-LHAL-090529-BT001	Dilution:	50
Date Acquired:	05/31/2009 12:49:27	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 12:21:05
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_051909	Current Time:	13:22:58
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-4

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	16220	2.070	103
2	I.S. (OCN)	45.41	137786	0.378	



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Sample Name:	AM06270RR1	Sample Amount:	1.040 L
Sample ID:	WFF-LHPO-090529-BT001	Dilution:	5
Date Acquired:	05/31/2009 23:45:28	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 10:49:12
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_051909	Current Time:	13:22:58
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-14

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.77	143348	17.057	85.3
2	I.S. (OCN)	45.41	147770	3.781	



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Sample Name:	AM06271RR1	Sample Amount:	1.060 L
Sample ID:	WFF-MOCO-090529-BT001	Dilution:	5
Date Acquired:	06/01/2009 01:56:13	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 12:45:21
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_051909	Current Time:	13:22:58
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-16

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	142267	16.233	81.2
2	I.S. (OCN)	45.40	154105	3.854	



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Sample Name:	AM06272RR1	Sample Amount:	1.060 L
Sample ID:	WFF-WAFA-090529-BT001	Dilution:	5
Date Acquired:	05/31/2009 18:17:49	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 09:23:17
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_051909	Current Time:	13:22:58
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-9

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.77	142370	16.537	82.7
2	I.S. (OCN)	45.42	151377	3.854	



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Sample Name:	AM06272DL1RR1	Sample Amount:	1.060 L
Sample ID:	WFF-WAFA-090529-BT001	Dilution:	50
Date Acquired:	06/01/2009 04:06:51	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 09:28:21
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_051909	Current Time:	23:10:27
Run Time:	60 Minutes	Current Date:	06/10/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-18

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.75	15346	2.084	104
2	I.S. (OCN)	45.40	129485	0.385	



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Sample Name:	AM06273RR1	Sample Amount:	1.000 L
Sample ID:	WFF-WAFO-090529-BT001	Dilution:	5
Date Acquired:	05/31/2009 19:23:25	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 09:23:24
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_051909	Current Time:	13:22:58
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-10

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.77	141275	16.351	81.8
2	I.S. (OCN)	45.41	151929	3.636	



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Sample Name:	AM06273DL1	Sample Amount:	1.000 L
Sample ID:	WFF-WAFO-090529-BT001	Dilution:	50
Date Acquired:	05/31/2009 15:00:50	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 09:28:16
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_051909	Current Time:	13:22:58
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-73-6

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.76	14311	2.044	102
2	I.S. (OCN)	45.41	123134	0.364	

# Laboratory Control Spike Summary

## PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Northeast Analytical, Inc.

ELAP ID No: 11078

SDG No: 09050314

LCS ID: LCS-52RR1

Blank Sample ID: CEBLK-52RR1

LCS File ID: GC24-73-8

Method Blank File ID: GC24-73-7

LCS Inj Date: 05/31/2009 17:12:09

Method Blank Inj Date: 05/31/2009 16:06:28

LCS NEA ID No: AM06270LRR1

Method Blank NEA ID No: AM06270BRR1

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS PERCENT RECOVERY #	QC LIMITS PERCENT RECOVERY
Total PCBs	200	177	88.6	60.0-140

# Column to be used to flag recovery values.

\* Value outside of QC limits.

Comments: \_\_\_\_\_  
 \_\_\_\_\_

# Matrix Spike Summary

### MATRIX SPIKE (MS) RECOVERY

Laboratory Name: Northeast Analytical, Inc.

ELAP ID No: 11078

SDG No: 09050314

MS LRF ID: 09050314-03MSRR1

Sample LRF ID: 09050314-03RR1

MS Lab File ID: GC24-73-15

Sample File ID: GC24-73-14

MS Sample Inj Date: 06/01/2009 00:50:51

Sample Inj Date: 05/31/2009 23:45:28

MS Lab Sample ID: AM06270MRR1

Sample ID: AM06270RR1

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS PERCENT RECOVERY #	QC LIMITS <sup>1</sup> PERCENT RECOVERY
Total PCBs	189	25	179	81.6	(60.0-140)

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS:

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# Method Blank Summary

**PCB METHOD BLANK SUMMARY**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09050314</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>CEBLK-52RR1</u>
Matrix:	<u>ORGANIC FREE WATER</u>	Client ID:	<u>CEBLK-52(METHOD BLANK)</u>
Sample Wt(Dry)/Vol:	<u>1000 mL</u>	Lab Sample ID:	<u>AM06270BRR1</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-73-7</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>05/29/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>05/31/2009 16:06</u>
Analytical SOP Reference:	<u>SOP NE207_03.DOC</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0</u>		

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

# Sample Analysis Data

**PCB SAMPLE ANALYSIS DATA SHEET**

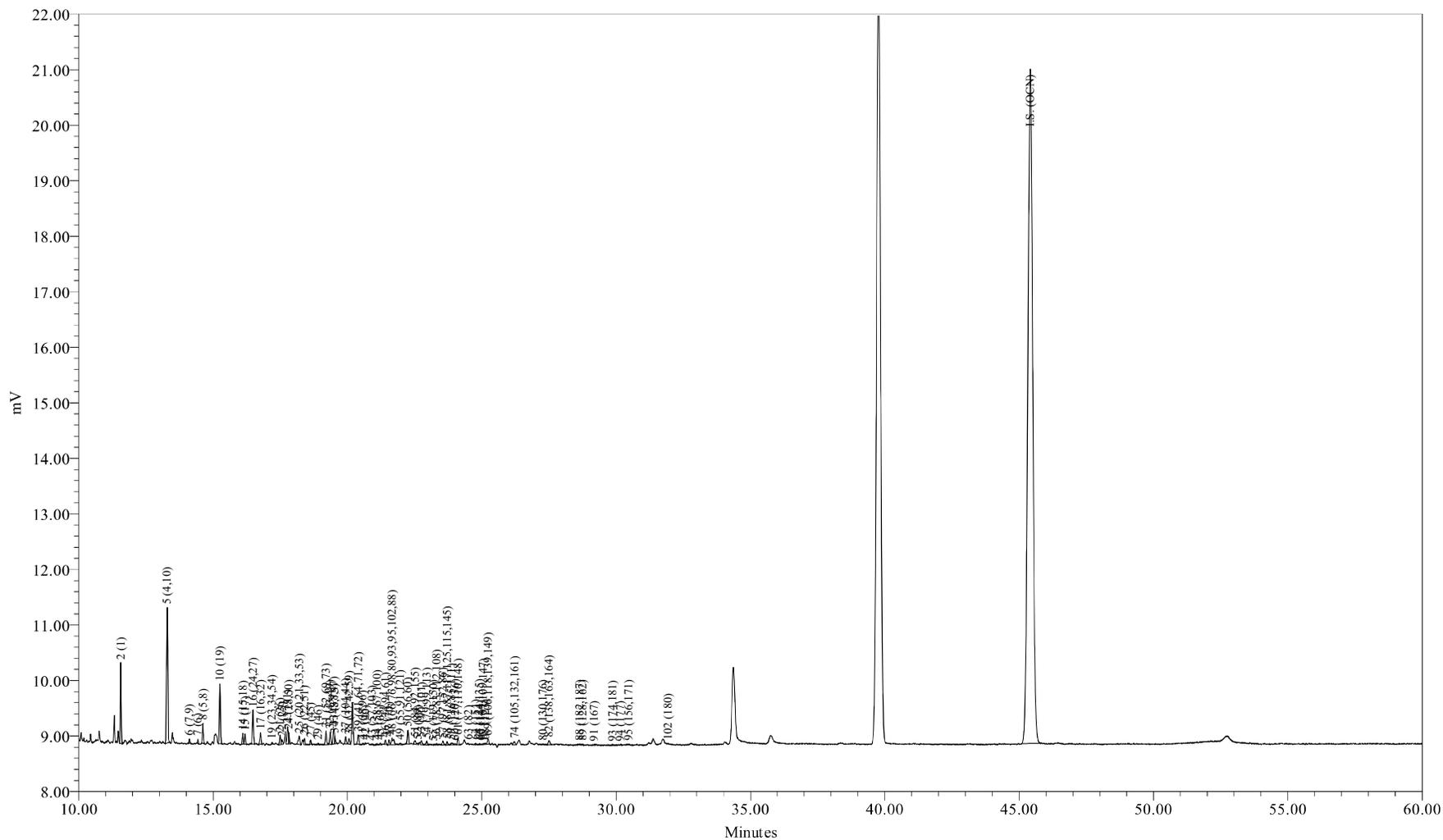
Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09050314</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>09050314-01RR1</u>
Matrix:	<u>Water</u>	Client ID:	<u>WFF-BDUP-090529-BT001</u>
Sample Wt(Dry)/Vol:	<u>1040 mL</u>	Lab Sample ID:	<u>AM06268RR1</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-73-11</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u>05/29/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>05/29/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>05/31/2009 20:29</u>
Analytical SOP Reference:	<u>SOP NE207_03</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:</u>		

OCN (I.S.) Peak Area: 153467

Percent Recovery (50 - 150 %): 133

SAMPLE TOTAL PCB CONCENTRATION: 115 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM06268RR1  
Sample ID: WFF-BDUP-090529-BT001  
Date Acquired: 5/31/2009 8:29:12 PM EDT

Sample Amount (L) : 1.0400  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-11

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-BDUP-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 20:29:12  
 Lab Sample ID: AM06268RR1  
 LRF ID: 09050314-01RR1  
 Lab File ID: GC24-73-11

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 115 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	42.56	47.79
Di	43.35	41.16
Tri	9.59	7.89
Tetra	3.04	2.22
Penta	1.33	0.86
Hexa	0.13	0.08
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	49.0515	97.6	98.0
A1242	23+24/31+28	0.9914	1.97	1.98
A1254SED	61/100	0.1998	0.398	
A1254BIO	69+75+82/149+153+138	0.0337		0.0674
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.52

Meta + Para Cl / biphenyl Residue = 0.16

Total Cl / biphenyl Residue = 1.67

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-BDUP-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 20:29:12  
 Lab Sample ID: AM06268RR1  
 LRF ID: 09050314-01RR1  
 Lab File ID: GC24-73-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	2680	49.1	260	0.529	2.19	
3	12.58	188.7				6.63	1000	U
4	12.68	188.7				0.355	1.28	U
5	13.29	223.1	926	48.2	216	1.34	6.21	
6	14.12	223.1	162	0.152	0.682	0.0721	0.219	J
7	14.43	223.1	158	0.297	1.33	0.158	0.347	J
8	14.62	223.1	845	1.13	5.06	0.542	2.56	J
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	2683	4.05	15.7	0.0604	0.102	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.98	223.1				0.0559	0.0975	U
14	16.11	249.0	534	0.683	2.74	0.128	0.676	
15	16.19	257.5	484	1.34	5.22	0.143	0.676	B
16	16.48	257.5	1631	1.52	5.89	0.0374	0.0475	
17	16.77	257.5	660	0.967	3.75	0.166	0.713	
19	17.19	267.9	95	0.135	0.504	0.128	25.0	J
20	17.37	257.5				0.0108	0.0194	U
21	17.50	257.5	497	0.633	2.46	0.0606	0.132	B
22	17.56	257.5	280	0.275	1.07	0.0426	0.0585	B
23	17.77	257.5	989	0.783	3.04	0.487	0.753	
24	17.82	257.5	475			0.211	0.964	U
25	18.21	259.5	598	0.553	2.13	0.105	0.726	J
26	18.40	258.7	279	0.210	0.811	0.120	0.530	J
27	18.63	292.0	192	0.211	0.721	0.0367	0.163	B
28	18.77	257.5				0.375	25.0	U
29	18.90	292.0	87			0.127	0.127	U
30	19.03	257.5				0.120	25.0	U
31	19.20	292.0	785	1.00	3.43	0.204	0.872	
32	19.36	292.0	683	0.447	1.53	0.0978	0.420	
33	19.49	292.0	986	0.523	1.79	0.0656	0.183	
34	19.53	292.0	271	0.151	0.516	0.0579	0.183	J
35	19.68	292.0				0.205	25.0	U
36	19.76	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	359			0.160	0.786	U
38	20.06	272.4	323	0.265	0.974	0.115	0.475	J
39	20.40	292.0	571	0.245	0.840	0.121	0.749	J
41	20.57	326.4	57			0.115	25.0	U
42	20.66	292.0	36			0.0968	0.172	U
43	20.91	298.9	97			0.152	25.0	U
44	21.10	298.9	96	0.0628	0.210	0.0225	0.0402	
45	21.23	292.0	109	0.0708	0.243	0.0299	0.0384	
46	21.41	292.0	216			0.0821	0.347	U
47	21.55	292.0	243			0.164	0.621	U
48	21.66	293.5	693	0.262	0.893	0.243	1.32	J
49	21.97	324.7	113	0.0728	0.224	0.0376	0.0932	J
50	22.25	292.0	846	0.361	1.24	0.359	0.640	J
51	22.52	326.4	281	0.468	1.43	0.0888	0.329	
52	22.62	326.4	84	0.0677	0.207	0.0384	0.0384	B
53	22.76	326.4	293	0.176	0.538	0.0691	0.329	J
54	22.96	326.4	228			0.101	0.135	U
55	23.21	326.4	21			0.00644	0.0102	U
56	23.32	326.4	102	0.0899	0.275	0.0647	0.0647	
57	23.55	326.4	247	0.137	0.419	0.0435	0.102	B
58	23.71	326.4	182	0.0925	0.284	0.0841	0.212	J
59	23.86	326.4	187	0.0923	0.283	0.0484	0.128	J
60	24.00	360.9	68			0.0772	0.137	U
61	24.11	326.4	386	0.200	0.612	0.0668	0.389	J
62	24.39	360.9				0.113	25.0	U
63	24.49	326.4	59	0.0430	0.132	0.0201	0.0804	J
64	24.77	360.9	68			0.0518	0.311	U
65	24.91	350.5	59	0.0171	0.0487	0.0149	0.0530	J
66	24.96	360.9	37			0.0541	0.110	U
67	25.05	336.8	68	0.0491	0.146	0.0348	0.0475	
68	25.14	326.4	56			0.125	25.0	U
69	25.23	337.5	364			0.0938	0.731	U
70	25.33	360.9				0.0829	25.0	U
71	25.62	347.8				0.0348	0.0369	U
72	25.82	336.8				0.00638	0.0106	U
73	26.08	360.9				0.0320	0.0713	U
74	26.22	347.8	231	0.0941	0.270	0.0721	0.248	J
75	26.36	360.9				0.109	0.538	U
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.27	360.9	54			0.0151	0.0475	U
82	27.50	360.9	345			0.108	0.493	U
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3				0.0677	0.201	U
87	28.51	395.3				0.0156	0.0731	U
88	28.64	395.3	118			0.102	0.658	U
89	28.76	360.9	60	0.0272	0.0753	0.0199	0.0366	J
90	28.94	395.3				0.0679	0.311	U
91	29.18	360.9	103	0.0392	0.109	0.0348	0.0348	

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.86	394.3	99			0.102	0.585	U
94	30.16	394.3	76			0.0936	0.311	U
95	30.47	382.2	80			0.0871	0.144	U
96	30.69	429.8				0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.93	395.3	38			0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = 115 ng/L

10.3 37.8

Total Nanomoles = 0.544

Average Molecular Weight = 211.9

Number of Calibrated Peaks Found = 64

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 153467.4

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-BDUP-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 20:29:12  
 Lab Sample ID: AM06268RR1  
 LRF ID: 09050314-01RR1  
 Lab File ID: GC24-73-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	42.559	47.792
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.29	2:2	004 010	0.2927	2-2; 26	41.836	39.736
6	14.12	2:1	007 009	0.3109	24; 25	0.132	0.125
7	14.43	2:1	006	0.3178	2-3	0.257	0.244
8	14.62	2:1	005 008	0.3220	23; 2-4	0.979	0.930
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	3.512	2.890
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018	0.3548	4-4; 25-2	0.592	0.504
15	16.19	3:2	017	0.3565	24-2	1.165	0.959
16	16.48	3:2	024 027	0.3629	236; 26-3	1.315	1.082
17	16.77	3:2	016 032	0.3693	23-2; 26-4	0.839	0.690
19	17.19	3:1 4:4	023 034 054	0.3786	235; 35-2; 26-26	0.117	0.093
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026	0.3854	25-3	0.549	0.452
22	17.56	3:1	025	0.3867	24-3	0.239	0.196
23	17.77	3:1	031	0.3913	25-4	0.679	0.559
24	17.82	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.21	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	0.480	0.392
26	18.40	3:1 4:3	022 051	0.4052	23-4; 24-26	0.182	0.149
27	18.63	4:3	045	0.4103	236-2	0.183	0.133
28	18.77	3:0	036		35-3	-	-
29	18.90	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4228	25-25; 246-3; 26-35	0.869	0.630
32	19.36	4:2	043 049	0.4263	235-2; 24-25	0.387	0.281
33	19.49	4:2	038 047	0.4292	345; 24-24	0.454	0.329
34	19.53	4:2	048 075	0.4301	245-2; 246-4	0.131	0.095
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.06	3:0 4:2	037 042 059	0.4418	34-4; 23-24; 236-3	0.230	0.179
39	20.40	4:2	041 064 071 072	0.4492	234-2; 236-4; 26-34; 25-35	0.213	0.154

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096		24-35; 236-26	-	-
42	20.66	4:2	040		23-23	-	-
43	20.91	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.10	4:1 5:3	058 067 100	0.4647	23-35; 245-3; 246-24	0.054	0.039
45	21.23	4:1	063	0.4675	235-4	0.061	0.045
46	21.41	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.55	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4770	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.227	0.164
49	21.97	4:1 5:3	055 091 121	0.4838	234-3; 236-24; 246-35	0.063	0.041
50	22.25	4:1	056 060	0.4900	23-34; 234-4	0.314	0.228
51	22.52	5:3 6:4	084 092 155	0.4959	236-23; 235-25; 246-246	0.406	0.264
52	22.62	5:3	089	0.4981	234-26	0.059	0.038
53	22.76	5:2	090 101	0.5012	235-24; 245-25	0.152	0.099
54	22.96	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.21	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.32	5:2	078 083 112 108	0.5135	345-3; 235-23; 2356-3; 2346-3	0.078	0.051
57	23.55	5:2 6:4	097 152 086	0.5186	245-23; 2356-26; 2345-2	0.119	0.077
58	23.71	5:2	081 087 117 125 115 145	0.5221	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.080	0.052
59	23.86	5:2	116 085 111	0.5254	23456; 234-24; 235-35	0.080	0.052
60	24.00	6:4	120 136		245-35; 236-236	-	-
61	24.11	5:2	077 110 148	0.5309	34-34; 236-34; 235-246	0.173	0.113
62	24.39	6:3	154		245-246	-	-
63	24.49	5:2	082	0.5393	234-23	0.037	0.024
64	24.77	6:3	151		2356-25	-	-
65	24.91	5:1 6:3	124 135	0.5486	345-25; 235-236	0.015	0.009
66	24.96	6:3	144		2346-25	-	-
67	25.05	5:1 6:3	107 109 147	0.5516	234-35; 235-34; 2356-24	0.043	0.027
68	25.14	5:1	123		345-24	-	-
69	25.23	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.22	5:1 6:3	105 132 161	0.5774	234-34; 234-236; 2346-35	0.082	0.050
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.27	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.50	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.64	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162	0.6333	234-234; 235-345	0.024	0.014
90	28.94	7:3	183		2346-245	-	-
91	29.18	6:1	167	0.6426	245-345	0.034	0.020
92	29.53	7:3	185		23456-25	-	-
93	29.86	7:3	174 181		2345-236; 23456-24	-	-
94	30.16	7:3	177		2356-234	-	-
95	30.47	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.93	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 115 ng/L

Total Nanomoles = 0.544

Average Molecular Weight = 211.9

Number of Calibrated Peaks Found = 64

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

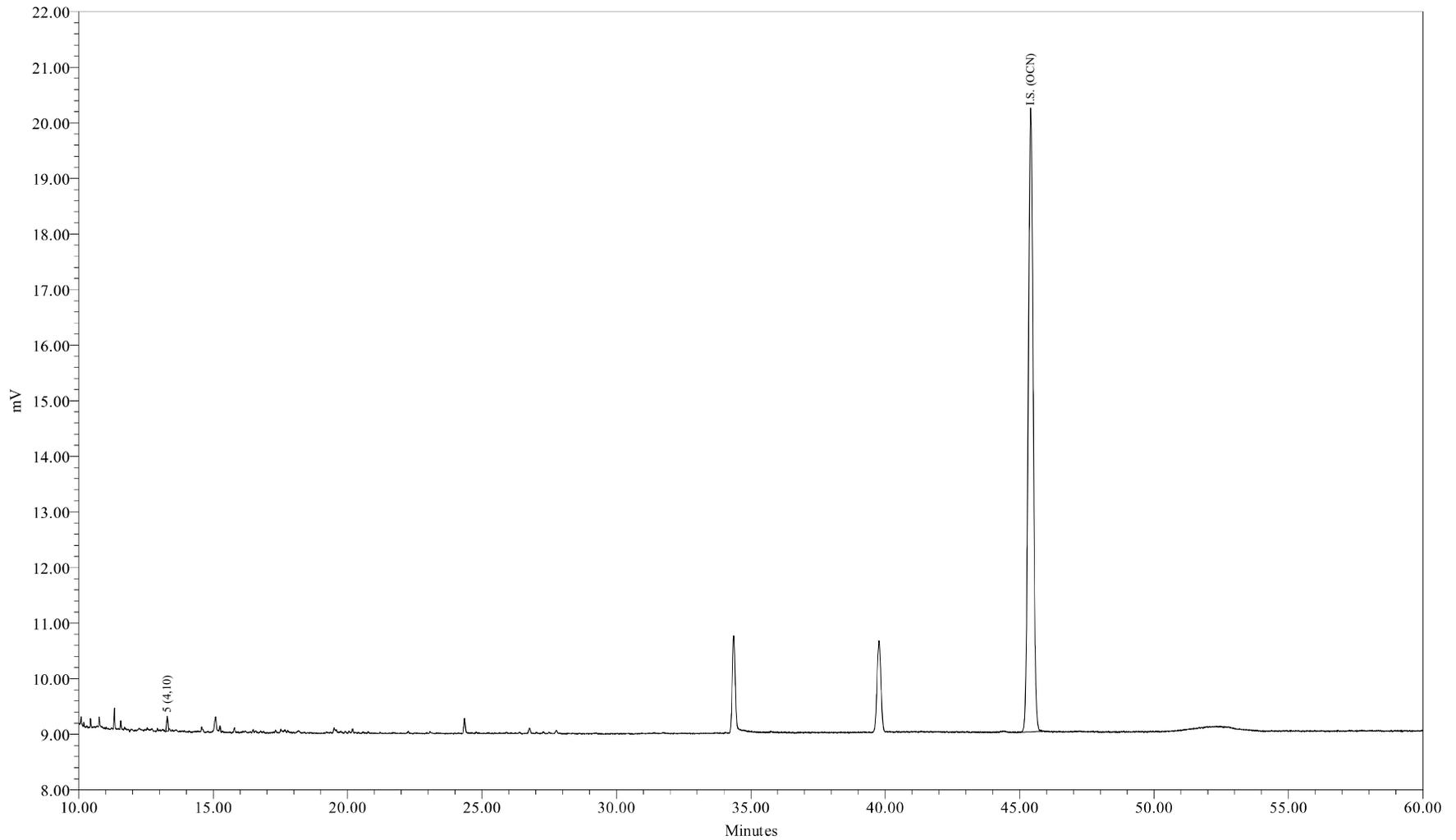
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



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www.nealab.com



Sample Name: AM06268DL1  
Sample ID: WFF-BDUP-090529-BT001  
Date Acquired: 5/31/2009 11:43:47 AM EDT

Sample Amount (L) : 1.0400  
Dilution: 50  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-3

Sample Name: AM06268DL1

1 of 1

Northeast Analytical, Inc.  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-BDUP-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 11:43:47  
 Lab Sample ID: AM06268DL1  
 LRF ID: 09050314-01DL1  
 Lab File ID: GC24-73-3

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 48.2 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	100.00	100.00
Tri	0.00	0.00
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.00

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.00

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-BDUP-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 11:43:47  
 Lab Sample ID: AM06268DL1  
 LRF ID: 09050314-01DL1  
 Lab File ID: GC24-73-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7				5.29	21.9	U
3	12.58	188.7				66.3	10000	U
4	12.68	188.7				3.55	12.8	U
5	13.29	223.1	926	48.2	216	1.34	6.21	U
6	14.13	223.1				0.721	2.19	U
7	14.44	223.1				1.58	3.47	U
8	14.62	223.1				5.42	25.6	U
9	15.18	223.1				2.94	250	U
10	15.26	257.5				0.604	1.02	U
11	15.72	257.5				1.98	250	U
12	15.78	223.1				3.06	250	U
13	15.98	223.1				0.559	0.975	U
14	16.11	249.0				1.28	6.76	U
15	16.19	257.5				1.43	6.76	U
16	16.49	257.5				0.374	0.475	U
17	16.75	257.5				1.66	7.13	U
19	17.20	267.9				1.28	250	U
20	17.37	257.5				0.108	0.194	U
21	17.50	257.5				0.606	1.32	U
22	17.58	257.5				0.426	0.585	U
23	17.78	257.5				4.87	7.53	U
24	17.82	257.5				2.11	9.64	U
25	18.17	259.5				1.05	7.26	U
26	18.41	258.7				1.20	5.30	U
27	18.63	292.0				0.367	1.63	U
28	18.77	257.5				3.75	250	U
29	18.91	292.0				1.27	1.27	U
30	19.03	257.5				1.20	250	U
31	19.20	292.0				2.04	8.72	U
32	19.37	292.0				0.978	4.20	U
33	19.48	292.0				0.656	1.83	U
34	19.54	292.0				0.579	1.83	U
35	19.68	292.0				2.05	250	U
36	19.76	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0				1.60	7.86	U
38	20.06	272.4				1.15	4.75	U
39	20.41	292.0				1.21	7.49	U
41	20.57	326.4				1.15	250	U
42	20.67	292.0				0.968	1.72	U
43	20.92	298.9				1.52	250	U
44	21.09	298.9				0.225	0.402	U
45	21.25	292.0				0.299	0.384	U
46	21.41	292.0				0.821	3.47	U
47	21.55	292.0				1.64	6.21	U
48	21.66	293.5				2.43	13.2	U
49	21.96	324.7				0.376	0.932	U
50	22.26	292.0				3.59	6.40	U
51	22.51	326.4				0.888	3.29	U
52	22.61	326.4				0.384	0.384	U
53	22.76	326.4				0.691	3.29	U
54	22.95	326.4				1.01	1.35	U
55	23.23	326.4				0.0644	0.102	U
56	23.33	326.4				0.647	0.647	U
57	23.54	326.4				0.435	1.02	U
58	23.71	326.4				0.841	2.12	U
59	23.86	326.4				0.484	1.28	U
60	23.99	360.9				0.772	1.37	U
61	24.12	326.4				0.668	3.89	U
62	24.39	360.9				1.13	250	U
63	24.48	326.4				0.201	0.804	U
64	24.78	360.9				0.518	3.11	U
65	24.92	350.5				0.149	0.530	U
66	24.98	360.9				0.541	1.10	U
67	25.04	336.8				0.348	0.475	U
68	25.13	326.4				1.25	250	U
69	25.22	337.5				0.938	7.31	U
70	25.33	360.9				0.829	250	U
71	25.62	347.8				0.348	0.369	U
72	25.82	336.8				0.0638	0.106	U
73	26.08	360.9				0.320	0.713	U
74	26.20	347.8				0.721	2.48	U
75	26.36	360.9				1.09	5.38	U
76	26.47	360.9				1.07	250	U
77	26.87	360.9				0.637	3.11	U
78	26.94	395.3				0.470	2.67	U
79	27.13	360.9				0.501	0.501	U
80	27.29	360.9				0.151	0.475	U
82	27.51	360.9				1.08	4.93	U
83	27.68	360.9				0.450	0.457	U
84	27.88	360.9				0.0310	0.0473	U
85	28.21	395.3				0.677	2.01	U
87	28.51	395.3				0.156	0.731	U
88	28.65	395.3				1.02	6.58	U
89	28.76	360.9				0.199	0.366	U
90	28.94	395.3				0.679	3.11	U
91	29.19	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.225	0.859	U
93	29.89	394.3				1.02	5.85	U
94	30.15	394.3				0.936	3.11	U
95	30.43	382.2				0.871	1.44	U
96	30.69	429.8				0.0942	0.121	U
98	30.85	395.3				0.133	0.139	U
99	31.21	429.8				0.863	0.863	U
100	31.45	395.3				1.27	1.27	U
101	31.71	429.8				2.17	2.17	U
102	31.90	395.3				1.50	11.1	U
103	32.15	395.3				0.640	0.768	U
104	32.45	395.3				0.374	0.438	U
105	32.78	429.8				0.460	0.786	U
106	33.90	395.3				0.538	2.34	U
107	34.15	395.3				0.213	0.768	U
108	34.98	429.8				0.324	0.438	U
109	35.22	429.8				1.16	7.68	U
110	35.74	429.8				1.84	7.86	U
111	36.86	395.3				0.231	0.231	U
112	38.35	429.8				0.368	1.01	U
113	38.85	464.2				0.438	0.903	U
114	39.76	464.2				0.154	0.340	U
115	41.12	429.8				0.969	3.29	U
116	41.98	429.8				0.838	0.838	U
117	46.94	464.2				0.384	1.24	U
118	52.76	498.6				0.126	0.126	U

Total Concentration = 48.2 ng/L

91.0

322

Total Nanomoles = 0.216

Average Molecular Weight = 223.1

Number of Calibrated Peaks Found = 1

Internal Standard Retention Time = 45.40 minutes

Internal Standard Peak Area = 142951.7

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-BDUP-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 11:43:47  
 Lab Sample ID: AM06268DL1  
 LRF ID: 09050314-01DL1  
 Lab File ID: GC24-73-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	2		-	-
3	12.58	1:0	002	3		-	-
4	12.68	1:0	003	4		-	-
5	13.29	2:2	004 010	0.2927	2-2; 26	100.000	100.000
6	14.13	2:1	007 009		24; 25	-	-
7	14.44	2:1	006		2-3	-	-
8	14.62	2:1	005 008		23; 2-4	-	-
9	15.18	2:0	014		35	-	-
10	15.26	3:3	019		26-2	-	-
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.19	3:2	017		24-2	-	-
16	16.49	3:2	024 027		236; 26-3	-	-
17	16.75	3:2	016 032		23-2; 26-4	-	-
19	17.20	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026		25-3	-	-
22	17.58	3:1	025		24-3	-	-
23	17.78	3:1	031		25-4	-	-
24	17.82	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.17	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.41	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.63	4:3	045		236-2	-	-
28	18.77	3:0	036		35-3	-	-
29	18.91	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.37	4:2	043 049		235-2; 24-25	-	-
33	19.48	4:2	038 047		345; 24-24	-	-
34	19.54	4:2	048 075		245-2; 246-4	-	-
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.06	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.41	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096		24-35; 236-26	-	-
42	20.67	4:2	040		23-23	-	-
43	20.92	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.09	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.25	4:1	063		235-4	-	-
46	21.41	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.55	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.96	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.26	4:1	056 060		23-34; 234-4	-	-
51	22.51	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.61	5:3	089		234-26	-	-
53	22.76	5:2	090 101		235-24; 245-25	-	-
54	22.95	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.23	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.33	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.54	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.71	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.86	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.99	6:4	120 136		245-35; 236-236	-	-
61	24.12	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082		234-23	-	-
64	24.78	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.98	6:3	144		2346-25	-	-
67	25.04	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.13	5:1	123		345-24	-	-
69	25.22	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.20	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 48.2 ng/L

Total Nanomoles = 0.216

Average Molecular Weight = 223.1

Number of Calibrated Peaks Found = 1

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB SAMPLE ANALYSIS DATA SHEET**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09050314</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>09050314-02RR1</u>
Matrix:	<u>Water</u>	Client ID:	<u>WFF-LHAL-090529-BT001</u>
Sample Wt(Dry)/Vol:	<u>1040 mL</u>	Lab Sample ID:	<u>AM06269RR1</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-73-13</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u>05/29/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>05/29/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>05/31/2009 22:40</u>
Analytical SOP Reference:	<u>SOP NE207_03</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:</u>		

OCN (I.S.) Peak Area: 153705

Percent Recovery (50 - 150 %): 133

SAMPLE TOTAL PCB CONCENTRATION: 113 ng/L

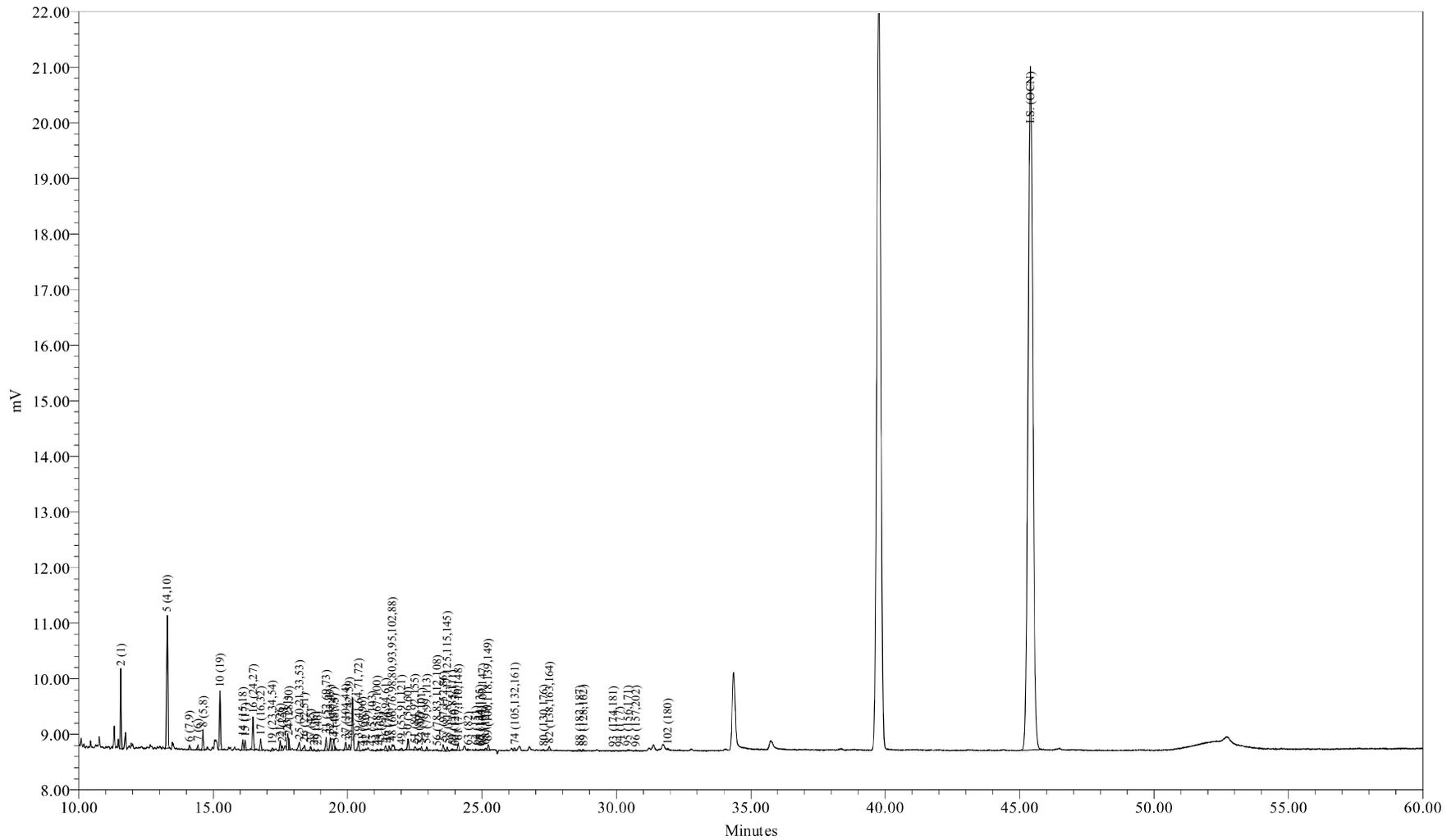
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM06269RR1  
Sample ID: WFF-LHAL-090529-BT001  
Date Acquired: 5/31/2009 10:40:04 PM EDT

Sample Amount (L) : 1.0400  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-13

Sample Name: AM06269RR1

1 of 1

Northeast Analytical, Inc.  
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 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LHAL-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 22:40:04  
 Lab Sample ID: AM06269RR1  
 LRF ID: 09050314-02RR1  
 Lab File ID: GC24-73-13

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 113 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	42.45	47.61
Di	44.00	41.73
Tri	9.72	7.98
Tetra	2.42	1.76
Penta	1.27	0.82
Hexa	0.15	0.09
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	47.9143	97.8	98.2
A1242	23+24/31+28	0.8926	1.82	1.83
A1254SED	61/100	0.2012	0.411	
A1254BIO	69+75+82/149+153+138	0.0002		0.000384
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.52

Meta + Para Cl / biphenyl Residue = 0.15

Total Cl / biphenyl Residue = 1.67

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LHAL-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 22:40:04  
 Lab Sample ID: AM06269RR1  
 LRF ID: 09050314-02RR1  
 Lab File ID: GC24-73-13

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	2623	47.9	254	0.529	2.19	
3	12.58	188.7				6.63	1000	U
4	12.68	188.7				0.355	1.28	U
5	13.29	223.1	879	47.5	213	1.34	6.21	
6	14.12	223.1	244	0.248	1.11	0.0721	0.219	
7	14.43	223.1	259	0.539	2.41	0.158	0.347	
8	14.62	223.1	910	1.23	5.52	0.542	2.56	J
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	2661	4.01	15.6	0.0604	0.102	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.98	223.1				0.0559	0.0975	U
14	16.10	249.0	518	0.652	2.62	0.128	0.676	J
15	16.19	257.5	460	1.27	4.93	0.143	0.676	B
16	16.48	257.5	1669	1.55	6.02	0.0374	0.0475	
17	16.77	257.5	663	0.969	3.76	0.166	0.713	
19	17.20	267.9	208	0.295	1.10	0.128	25.0	J
20	17.37	257.5				0.0108	0.0194	U
21	17.50	257.5	492	0.625	2.43	0.0606	0.132	B
22	17.57	257.5	233	0.229	0.888	0.0426	0.0585	B
23	17.77	257.5	900	0.685	2.66	0.487	0.753	J
24	17.81	257.5	475			0.211	0.964	U
25	18.20	259.5	557	0.500	1.93	0.105	0.726	J
26	18.39	258.7	393	0.359	1.39	0.120	0.530	J
27	18.63	292.0	193	0.212	0.726	0.0367	0.163	B
28	18.75	257.5	88			0.375	25.0	U
29	18.89	292.0	74			0.127	0.127	U
30	19.03	257.5				0.120	25.0	U
31	19.20	292.0	773	0.981	3.36	0.204	0.872	
32	19.36	292.0	755	0.503	1.72	0.0978	0.420	
33	19.48	292.0	668	0.343	1.17	0.0656	0.183	
34	19.53	292.0	158	0.0621	0.213	0.0579	0.183	J
35	19.68	292.0				0.205	25.0	U
36	19.76	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	400			0.160	0.786	U
38	20.05	272.4	274	0.203	0.746	0.115	0.475	J
39	20.40	292.0	609	0.274	0.940	0.121	0.749	J
41	20.57	326.4	47			0.115	25.0	U
42	20.67	292.0	38			0.0968	0.172	U
43	20.92	298.9	62			0.152	25.0	U
44	21.10	298.9	112	0.0732	0.245	0.0225	0.0402	
45	21.24	292.0	111	0.0722	0.247	0.0299	0.0384	
46	21.41	292.0	304			0.0821	0.347	U
47	21.54	292.0	268			0.164	0.621	U
48	21.66	293.5	578			0.243	1.32	U
49	22.01	324.7	167	0.119	0.367	0.0376	0.0932	
50	22.25	292.0	617			0.359	0.640	U
51	22.50	326.4	219	0.360	1.10	0.0888	0.329	
52	22.64	326.4	61	0.0480	0.147	0.0384	0.0384	B
53	22.75	326.4	175	0.0803	0.246	0.0691	0.329	J
54	22.95	326.4	177			0.101	0.135	U
55	23.23	326.4				0.00644	0.0102	U
56	23.33	326.4	75	0.0670	0.205	0.0647	0.0647	
57	23.56	326.4	469	0.268	0.822	0.0435	0.102	B
58	23.70	326.4	233	0.128	0.393	0.0841	0.212	J
59	23.90	326.4	174	0.0848	0.260	0.0484	0.128	J
60	24.00	360.9	72			0.0772	0.137	U
61	24.11	326.4	388	0.201	0.617	0.0668	0.389	J
62	24.39	360.9				0.113	25.0	U
63	24.48	326.4	43	0.0324	0.0992	0.0201	0.0804	J
64	24.77	360.9	100			0.0518	0.311	U
65	24.92	350.5	39			0.0149	0.0530	U
66	24.96	360.9	57	0.0649	0.180	0.0541	0.110	J
67	25.02	336.8	49			0.0348	0.0475	U
68	25.13	326.4	135			0.125	25.0	U
69	25.23	337.5	353			0.0938	0.731	U
70	25.33	360.9				0.0829	25.0	U
71	25.62	347.8				0.0348	0.0369	U
72	25.82	336.8				0.00638	0.0106	U
73	26.08	360.9				0.0320	0.0713	U
74	26.21	347.8	214	0.0856	0.246	0.0721	0.248	J
75	26.36	360.9				0.109	0.538	U
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.28	360.9	80			0.0151	0.0475	U
82	27.51	360.9	286			0.108	0.493	U
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3				0.0677	0.201	U
87	28.51	395.3				0.0156	0.0731	U
88	28.63	395.3	160			0.102	0.658	U
89	28.78	360.9	112	0.0490	0.136	0.0199	0.0366	
90	28.94	395.3				0.0679	0.311	U
91	29.19	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.88	394.3	61			0.102	0.585	U
94	30.12	394.3	23			0.0936	0.311	U
95	30.42	382.2	125			0.0871	0.144	U
96	30.73	429.8	47			0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.91	395.3	77			0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = 113 ng/L

10.3 37.8

Total Nanomoles = 0.533

Average Molecular Weight = 211.7

Number of Calibrated Peaks Found = 64

Internal Standard Retention Time = 45.40 minutes

Internal Standard Peak Area = 153704.8

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LHAL-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 22:40:04  
 Lab Sample ID: AM06269RR1  
 LRF ID: 09050314-02RR1  
 Lab File ID: GC24-73-13

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	42.450	47.614
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.29	2:2	004 010	0.2927	2-2; 26	42.068	39.910
6	14.12	2:1	007 009	0.3110	24; 25	0.220	0.209
7	14.43	2:1	006	0.3178	2-3	0.477	0.453
8	14.62	2:1	005 008	0.3220	23; 2-4	1.092	1.036
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3359	26-2	3.552	2.920
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.10	2:0 3:2	015 018	0.3546	4-4; 25-2	0.577	0.491
15	16.19	3:2	017	0.3566	24-2	1.125	0.925
16	16.48	3:2	024 027	0.3630	236; 26-3	1.373	1.128
17	16.77	3:2	016 032	0.3694	23-2; 26-4	0.859	0.706
19	17.20	3:1 4:4	023 034 054	0.3789	235; 35-2; 26-26	0.262	0.207
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026	0.3855	25-3	0.554	0.455
22	17.57	3:1	025	0.3870	24-3	0.203	0.167
23	17.77	3:1	031	0.3914	25-4	0.607	0.499
24	17.81	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.20	3:1 4:3	020 021 033 053	0.4009	23-3; 234; 34-2; 25-26	0.443	0.361
26	18.39	3:1 4:3	022 051	0.4051	23-4; 24-26	0.318	0.260
27	18.63	4:3	045	0.4104	236-2	0.188	0.136
28	18.75	3:0	036		35-3	-	-
29	18.89	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4229	25-25; 246-3; 26-35	0.869	0.630
32	19.36	4:2	043 049	0.4264	235-2; 24-25	0.446	0.323
33	19.48	4:2	038 047	0.4291	345; 24-24	0.304	0.220
34	19.53	4:2	048 075	0.4302	245-2; 246-4	0.055	0.040
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.05	3:0 4:2	037 042 059	0.4416	34-4; 23-24; 236-3	0.180	0.140
39	20.40	4:2	041 064 071 072	0.4493	234-2; 236-4; 26-34; 25-35	0.243	0.176

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096		24-35; 236-26	-	-
42	20.67	4:2	040		23-23	-	-
43	20.92	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.10	4:1 5:3	058 067 100	0.4648	23-35; 245-3; 246-24	0.065	0.046
45	21.24	4:1	063	0.4678	235-4	0.064	0.046
46	21.41	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.54	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.01	4:1 5:3	055 091 121	0.4848	234-3; 236-24; 246-35	0.106	0.069
50	22.25	4:1	056 060		23-34; 234-4	-	-
51	22.50	5:3 6:4	084 092 155	0.4956	236-23; 235-25; 246-246	0.319	0.207
52	22.64	5:3	089	0.4987	234-26	0.043	0.028
53	22.75	5:2	090 101	0.5011	235-24; 245-25	0.071	0.046
54	22.95	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.23	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.33	5:2	078 083 112 108	0.5139	345-3; 235-23; 2356-3; 2346-3	0.059	0.038
57	23.56	5:2 6:4	097 152 086	0.5189	245-23; 2356-26; 2345-2	0.238	0.154
58	23.70	5:2	081 087 117 125 115 145	0.5220	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.114	0.074
59	23.90	5:2	116 085 111	0.5264	23456; 234-24; 235-35	0.075	0.049
60	24.00	6:4	120 136		245-35; 236-236	-	-
61	24.11	5:2	077 110 148	0.5311	34-34; 236-34; 235-246	0.178	0.116
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5392	234-23	0.029	0.019
64	24.77	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.96	6:3	144	0.5498	2346-25	0.057	0.034
67	25.02	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.13	5:1	123		345-24	-	-
69	25.23	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.21	5:1 6:3	105 132 161	0.5773	234-34; 234-236; 2346-35	0.076	0.046
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.28	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.63	7:3	182 187		2345-246; 2356-245	-	-
89	28.78	6:2	128 162	0.6339	234-234; 235-345	0.043	0.025
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.88	7:3	174 181		2345-236; 23456-24	-	-
94	30.12	7:3	177		2356-234	-	-
95	30.42	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.73	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.91	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 113 ng/L

Total Nanomoles = 0.533

Average Molecular Weight = 211.7

Number of Calibrated Peaks Found = 64

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

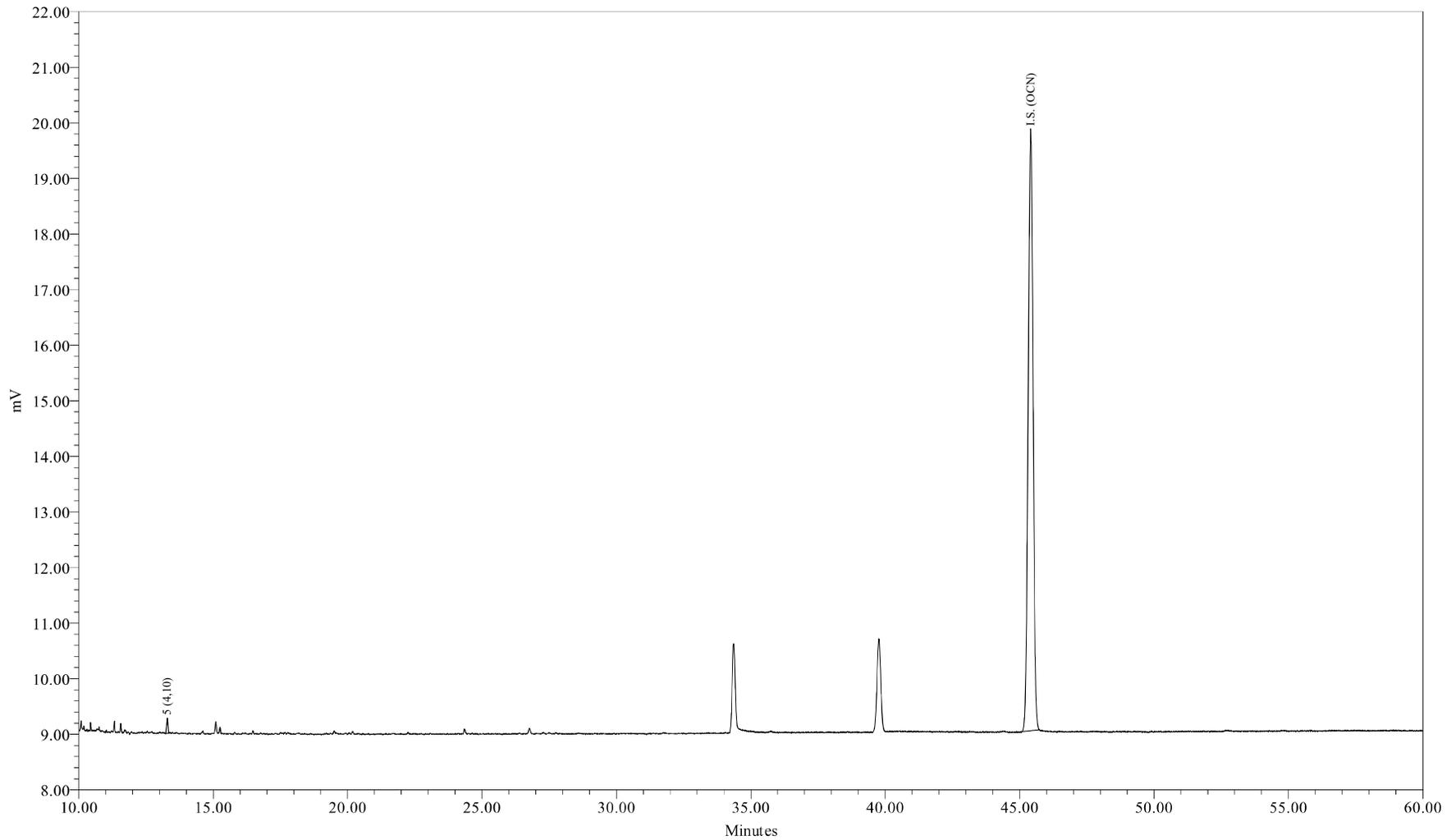
<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Sample Name: AM06269DL1  
Sample ID: WFF-LHAL-090529-BT001  
Date Acquired: 5/31/2009 12:49:27 PM EDT

Sample Amount (L) : 1.0400  
Dilution: 50  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-4

Sample Name: AM06269DL1

1 of 1

Northeast Analytical, Inc.  
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 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LHAL-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 12:49:27  
 Lab Sample ID: AM06269DL1  
 LRF ID: 09050314-02DL1  
 Lab File ID: GC24-73-4

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 47.5 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	100.00	100.00
Tri	0.00	0.00
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.00

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.00

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LHAL-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 12:49:27  
 Lab Sample ID: AM06269DL1  
 LRF ID: 09050314-02DL1  
 Lab File ID: GC24-73-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7				5.29	21.9	U
3	12.58	188.7				66.3	10000	U
4	12.68	188.7				3.55	12.8	U
5	13.29	223.1	879	47.5	213	1.34	6.21	
6	14.13	223.1				0.721	2.19	U
7	14.44	223.1				1.58	3.47	U
8	14.62	223.1				5.42	25.6	U
9	15.18	223.1				2.94	250	U
10	15.26	257.5				0.604	1.02	U
11	15.72	257.5				1.98	250	U
12	15.78	223.1				3.06	250	U
13	15.98	223.1				0.559	0.975	U
14	16.11	249.0				1.28	6.76	U
15	16.19	257.5				1.43	6.76	U
16	16.49	257.5				0.374	0.475	U
17	16.75	257.5				1.66	7.13	U
19	17.20	267.9				1.28	250	U
20	17.37	257.5				0.108	0.194	U
21	17.50	257.5				0.606	1.32	U
22	17.58	257.5				0.426	0.585	U
23	17.78	257.5				4.87	7.53	U
24	17.82	257.5				2.11	9.64	U
25	18.17	259.5				1.05	7.26	U
26	18.41	258.7				1.20	5.30	U
27	18.63	292.0				0.367	1.63	U
28	18.77	257.5				3.75	250	U
29	18.91	292.0				1.27	1.27	U
30	19.03	257.5				1.20	250	U
31	19.20	292.0				2.04	8.72	U
32	19.37	292.0				0.978	4.20	U
33	19.48	292.0				0.656	1.83	U
34	19.54	292.0				0.579	1.83	U
35	19.68	292.0				2.05	250	U
36	19.76	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0				1.60	7.86	U
38	20.06	272.4				1.15	4.75	U
39	20.41	292.0				1.21	7.49	U
41	20.57	326.4				1.15	250	U
42	20.67	292.0				0.968	1.72	U
43	20.92	298.9				1.52	250	U
44	21.09	298.9				0.225	0.402	U
45	21.25	292.0				0.299	0.384	U
46	21.41	292.0				0.821	3.47	U
47	21.55	292.0				1.64	6.21	U
48	21.66	293.5				2.43	13.2	U
49	21.96	324.7				0.376	0.932	U
50	22.26	292.0				3.59	6.40	U
51	22.51	326.4				0.888	3.29	U
52	22.61	326.4				0.384	0.384	U
53	22.76	326.4				0.691	3.29	U
54	22.95	326.4				1.01	1.35	U
55	23.23	326.4				0.0644	0.102	U
56	23.33	326.4				0.647	0.647	U
57	23.54	326.4				0.435	1.02	U
58	23.71	326.4				0.841	2.12	U
59	23.86	326.4				0.484	1.28	U
60	23.99	360.9				0.772	1.37	U
61	24.12	326.4				0.668	3.89	U
62	24.39	360.9				1.13	250	U
63	24.48	326.4				0.201	0.804	U
64	24.78	360.9				0.518	3.11	U
65	24.92	350.5				0.149	0.530	U
66	24.98	360.9				0.541	1.10	U
67	25.04	336.8				0.348	0.475	U
68	25.13	326.4				1.25	250	U
69	25.22	337.5				0.938	7.31	U
70	25.33	360.9				0.829	250	U
71	25.62	347.8				0.348	0.369	U
72	25.82	336.8				0.0638	0.106	U
73	26.08	360.9				0.320	0.713	U
74	26.20	347.8				0.721	2.48	U
75	26.36	360.9				1.09	5.38	U
76	26.47	360.9				1.07	250	U
77	26.87	360.9				0.637	3.11	U
78	26.94	395.3				0.470	2.67	U
79	27.13	360.9				0.501	0.501	U
80	27.29	360.9				0.151	0.475	U
82	27.51	360.9				1.08	4.93	U
83	27.68	360.9				0.450	0.457	U
84	27.88	360.9				0.0310	0.0473	U
85	28.21	395.3				0.677	2.01	U
87	28.51	395.3				0.156	0.731	U
88	28.65	395.3				1.02	6.58	U
89	28.76	360.9				0.199	0.366	U
90	28.94	395.3				0.679	3.11	U
91	29.19	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.225	0.859	U
93	29.89	394.3				1.02	5.85	U
94	30.15	394.3				0.936	3.11	U
95	30.43	382.2				0.871	1.44	U
96	30.69	429.8				0.0942	0.121	U
98	30.85	395.3				0.133	0.139	U
99	31.21	429.8				0.863	0.863	U
100	31.45	395.3				1.27	1.27	U
101	31.71	429.8				2.17	2.17	U
102	31.90	395.3				1.50	11.1	U
103	32.15	395.3				0.640	0.768	U
104	32.45	395.3				0.374	0.438	U
105	32.78	429.8				0.460	0.786	U
106	33.90	395.3				0.538	2.34	U
107	34.15	395.3				0.213	0.768	U
108	34.98	429.8				0.324	0.438	U
109	35.22	429.8				1.16	7.68	U
110	35.74	429.8				1.84	7.86	U
111	36.86	395.3				0.231	0.231	U
112	38.35	429.8				0.368	1.01	U
113	38.85	464.2				0.438	0.903	U
114	39.76	464.2				0.154	0.340	U
115	41.12	429.8				0.969	3.29	U
116	41.98	429.8				0.838	0.838	U
117	46.94	464.2				0.384	1.24	U
118	52.76	498.6				0.126	0.126	U

Total Concentration = 47.5 ng/L

91.0

322

Total Nanomoles = 0.213

Average Molecular Weight = 223.1

Number of Calibrated Peaks Found = 1

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 137785.5

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LHAL-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 12:49:27  
 Lab Sample ID: AM06269DL1  
 LRF ID: 09050314-02DL1  
 Lab File ID: GC24-73-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001		2	-	-
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.29	2:2	004 010	0.2927	2-2; 26	100.000	100.000
6	14.13	2:1	007 009		24; 25	-	-
7	14.44	2:1	006		2-3	-	-
8	14.62	2:1	005 008		23; 2-4	-	-
9	15.18	2:0	014		35	-	-
10	15.26	3:3	019		26-2	-	-
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.19	3:2	017		24-2	-	-
16	16.49	3:2	024 027		236; 26-3	-	-
17	16.75	3:2	016 032		23-2; 26-4	-	-
19	17.20	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026		25-3	-	-
22	17.58	3:1	025		24-3	-	-
23	17.78	3:1	031		25-4	-	-
24	17.82	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.17	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.41	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.63	4:3	045		236-2	-	-
28	18.77	3:0	036		35-3	-	-
29	18.91	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.37	4:2	043 049		235-2; 24-25	-	-
33	19.48	4:2	038 047		345; 24-24	-	-
34	19.54	4:2	048 075		245-2; 246-4	-	-
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.06	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.41	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096		24-35; 236-26	-	-
42	20.67	4:2	040		23-23	-	-
43	20.92	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.09	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.25	4:1	063		235-4	-	-
46	21.41	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.55	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.96	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.26	4:1	056 060		23-34; 234-4	-	-
51	22.51	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.61	5:3	089		234-26	-	-
53	22.76	5:2	090 101		235-24; 245-25	-	-
54	22.95	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.23	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.33	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.54	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.71	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.86	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.99	6:4	120 136		245-35; 236-236	-	-
61	24.12	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082		234-23	-	-
64	24.78	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.98	6:3	144		2346-25	-	-
67	25.04	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.13	5:1	123		345-24	-	-
69	25.22	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.20	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 47.5 ng/L

Total Nanomoles = 0.213

Average Molecular Weight = 223.1

Number of Calibrated Peaks Found = 1

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050314
ELAP ID No:	11078	LRF ID:	09050314-03RR1
Matrix:	Water	Client ID:	WFF-LHPO-090529-BT001
Sample Wt(Dry)/Vol:	1040 mL	Lab Sample ID:	AM06270RR1
% Moisture:	100	Lab File ID:	GC24-73-14
Extraction:	Solid Phase Extraction - 1L	Date Received:	05/29/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	05/31/2009 23:45
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:		

OCN (I.S.) Peak Area: 147770

Percent Recovery (50 - 150 %): 128

SAMPLE TOTAL PCB CONCENTRATION: 25.0 ng/L J

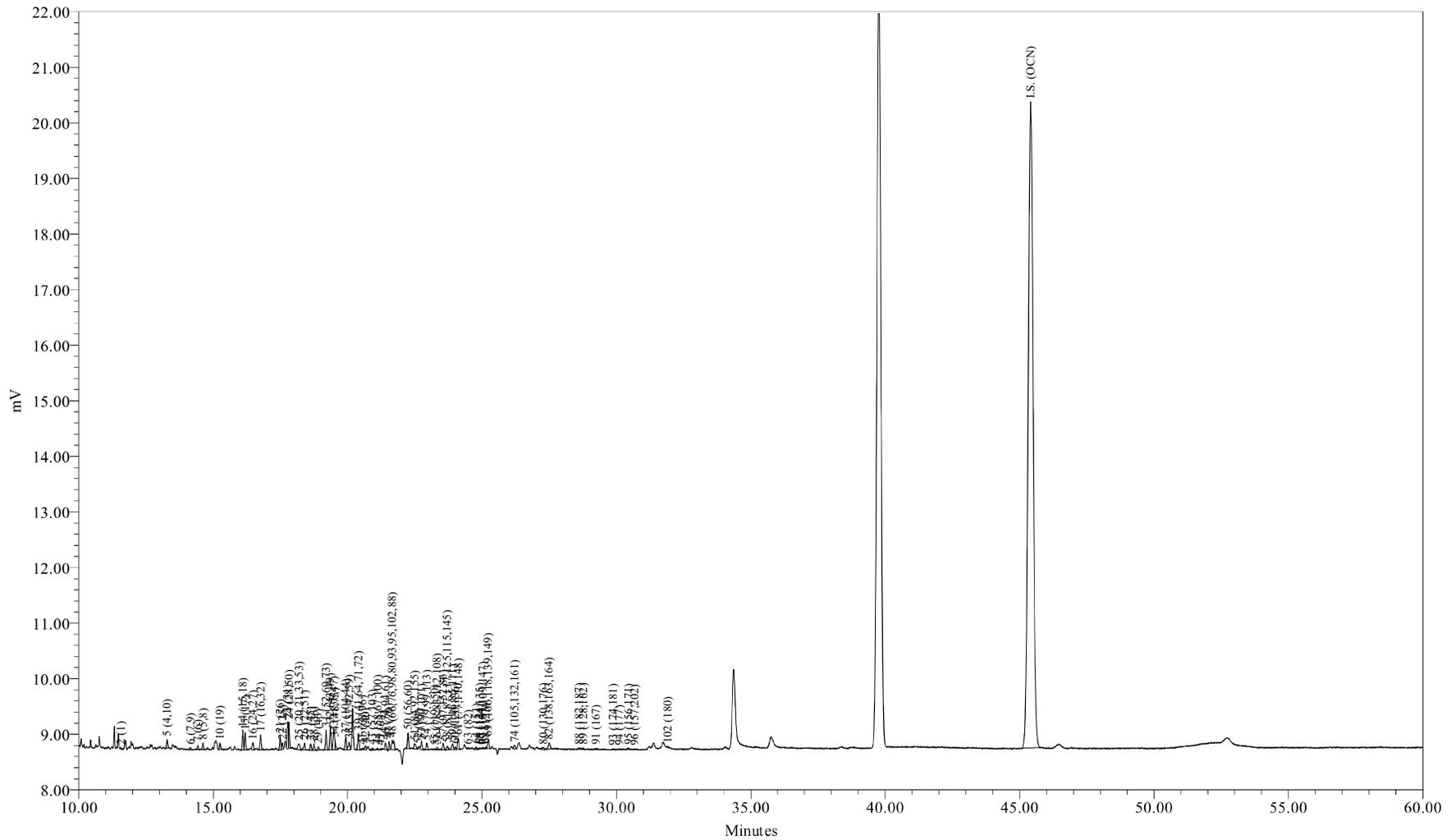
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM06270RR1  
Sample ID: WFF-LHPO-090529-BT001  
Date Acquired: 5/31/2009 11:45:28 PM EDT

Sample Amount (L) : 1.0400  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-14

Sample Name: AM06270RR1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LHPO-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 23:45:28  
 Lab Sample ID: AM06270RR1  
 LRF ID: 09050314-03RR1  
 Lab File ID: GC24-73-14

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 25.0 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	12.68	15.10
Tri	45.12	47.27
Tetra	29.27	27.07
Penta	11.35	9.35
Hexa	1.59	1.21
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	0.1504	5.41	5.60
A1242	23+24/31+28	2.2005	79.1	82.0
A1254SED	61/100	0.4301	15.5	
A1254BIO	69+75+82/149+153+138	0.3335		12.4
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.71

Meta + Para Cl / biphenyl Residue = 1.64

Total Cl / biphenyl Residue = 3.34

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LHPO-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 23:45:28  
 Lab Sample ID: AM06270RR1  
 LRF ID: 09050314-03RR1  
 Lab File ID: GC24-73-14

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	25			0.529	2.19	U
3	12.58	188.7				6.63	1000	U
4	12.68	188.7				0.355	1.28	U
5	13.28	223.1	450	2.24	10.0	0.134	0.621	
6	14.16	223.1	129	0.119	0.535	0.0721	0.219	J
7	14.43	223.1	196	0.406	1.82	0.158	0.347	
8	14.62	223.1	310			0.542	2.56	U
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	313	0.501	1.94	0.0604	0.102	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.98	223.1				0.0559	0.0975	U
14	16.11	249.0	1023	1.65	6.63	0.128	0.676	
15	16.19	257.5	809	2.43	9.43	0.143	0.676	B
16	16.48	257.5	465	0.443	1.72	0.0374	0.0475	
17	16.77	257.5	847	1.35	5.23	0.166	0.713	
19	17.20	267.9				0.128	25.0	U
20	17.37	257.5				0.0108	0.0194	U
21	17.49	257.5	676	0.897	3.48	0.0606	0.132	B
22	17.57	257.5	350	0.358	1.39	0.0426	0.0585	B
23	17.77	257.5	1253	1.12	4.35	0.487	0.753	
24	17.82	257.5	1331	1.08	4.20	0.211	0.964	
25	18.20	259.5	528	0.491	1.89	0.105	0.726	J
26	18.40	258.7	424	0.421	1.63	0.120	0.530	J
27	18.62	292.0	372	0.436	1.49	0.0367	0.163	B
28	18.75	257.5	350	0.667	2.59	0.375	25.0	J
29	18.90	292.0	221	0.290	0.994	0.127	0.127	
30	19.03	257.5				0.120	25.0	U
31	19.20	292.0	1084	1.55	5.30	0.204	0.872	
32	19.36	292.0	1417	1.08	3.69	0.0978	0.420	
33	19.49	292.0	1401	0.787	2.69	0.0656	0.183	
34	19.53	292.0	404	0.267	0.915	0.0579	0.183	
35	19.68	292.0				0.205	25.0	U
36	19.76	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	744	0.517	1.77	0.160	0.786	J
38	20.06	272.4	564	0.600	2.20	0.115	0.475	
39	20.40	292.0	999	0.616	2.11	0.121	0.749	J
41	20.56	326.4	60			0.115	25.0	U
42	20.67	292.0	248	0.247	0.847	0.0968	0.172	
43	20.92	298.9	116			0.152	25.0	U
44	21.12	298.9	84	0.0572	0.191	0.0225	0.0402	
45	21.24	292.0	60	0.0396	0.135	0.0299	0.0384	
46	21.41	292.0	343	0.0876	0.300	0.0821	0.347	J
47	21.54	292.0	423			0.164	0.621	U
48	21.66	293.5	1046	0.663	2.26	0.243	1.32	J
49	21.96	324.7				0.0376	0.0932	U
50	22.25	292.0	923	0.436	1.49	0.359	0.640	J
51	22.50	326.4	406	0.711	2.18	0.0888	0.329	
52	22.63	326.4	108	0.0916	0.281	0.0384	0.0384	B
53	22.75	326.4	465	0.329	1.01	0.0691	0.329	J
54	22.95	326.4	362	0.168	0.514	0.101	0.135	
55	23.25	326.4	44	0.0145	0.0445	0.00644	0.0102	
56	23.33	326.4	138	0.125	0.382	0.0647	0.0647	
57	23.55	326.4	445	0.265	0.811	0.0435	0.102	B
58	23.71	326.4	270	0.162	0.498	0.0841	0.212	J
59	23.90	326.4	448	0.252	0.773	0.0484	0.128	
60	24.01	360.9	141			0.0772	0.137	U
61	24.11	326.4	646	0.430	1.32	0.0668	0.389	
62	24.39	360.9				0.113	25.0	U
63	24.48	326.4	50	0.0386	0.118	0.0201	0.0804	J
64	24.78	360.9	114			0.0518	0.311	U
65	24.92	350.5	56	0.0168	0.0480	0.0149	0.0530	J
66	24.96	360.9	36			0.0541	0.110	U
67	25.03	336.8	69	0.0524	0.155	0.0348	0.0475	
68	25.14	326.4	75			0.125	25.0	U
69	25.23	337.5	615	0.183	0.542	0.0938	0.731	J
70	25.33	360.9				0.0829	25.0	U
71	25.62	347.8				0.0348	0.0369	U
72	25.82	336.8				0.00638	0.0106	U
73	26.08	360.9				0.0320	0.0713	U
74	26.21	347.8	281	0.123	0.354	0.0721	0.248	J
75	26.36	360.9				0.109	0.538	U
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.28	360.9	181	0.0469	0.130	0.0151	0.0475	J
82	27.49	360.9	529	0.151	0.417	0.108	0.493	J
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3				0.0677	0.201	U
87	28.51	395.3				0.0156	0.0731	U
88	28.61	395.3	112			0.102	0.658	U
89	28.78	360.9	85	0.0387	0.107	0.0199	0.0366	
90	28.94	395.3				0.0679	0.311	U
91	29.23	360.9	79			0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.87	394.3	73			0.102	0.585	U
94	30.12	394.3	71			0.0936	0.311	U
95	30.45	382.2	127			0.0871	0.144	U
96	30.67	429.8	70			0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.92	395.3	74			0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = 25.0 ng/L 9.10 32.2 J

Total Nanomoles = 0.093

Average Molecular Weight = 269.3

Number of Calibrated Peaks Found = 64

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 147770.0

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LHPO-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 23:45:28  
 Lab Sample ID: AM06270RR1  
 LRF ID: 09050314-03RR1  
 Lab File ID: GC24-73-14

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001		2	-	-
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.28	2:2	004 010	0.2924	2-2; 26	8.940	10.794
6	14.16	2:1	007 009	0.3118	24; 25	0.477	0.576
7	14.43	2:1	006	0.3178	2-3	1.622	1.958
8	14.62	2:1	005 008		23; 2-4	-	-
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	1.999	2.091
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018	0.3548	4-4; 25-2	6.599	7.139
15	16.19	3:2	017	0.3565	24-2	9.702	10.148
16	16.48	3:2	024 027	0.3629	236; 26-3	1.771	1.852
17	16.77	3:2	016 032	0.3693	23-2; 26-4	5.375	5.622
19	17.20	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.37	3:1	029		245	-	-
21	17.49	3:1	026	0.3852	25-3	3.582	3.747
22	17.57	3:1	025	0.3869	24-3	1.428	1.494
23	17.77	3:1	031	0.3913	25-4	4.474	4.680
24	17.82	3:1 4:3	028 050	0.3924	24-4; 246-2	4.316	4.514
25	18.20	3:1 4:3	020 021 033 053	0.4008	23-3; 234; 34-2; 25-26	1.960	2.034
26	18.40	3:1 4:3	022 051	0.4052	23-4; 24-26	1.682	1.751
27	18.62	4:3	045	0.4100	236-2	1.741	1.606
28	18.75	3:0	036	0.4129	35-3	2.666	2.789
29	18.90	4:3	046	0.4162	23-26	1.159	1.070
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4228	25-25; 246-3; 26-35	6.182	5.702
32	19.36	4:2	043 049	0.4263	235-2; 24-25	4.306	3.972
33	19.49	4:2	038 047	0.4292	345; 24-24	3.143	2.899
34	19.53	4:2	048 075	0.4301	245-2; 246-4	1.068	0.985
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044	0.4389	246-26; 23-25	2.066	1.906
38	20.06	3:0 4:2	037 042 059	0.4418	34-4; 23-24; 236-3	2.395	2.369
39	20.40	4:2	041 064 071 072	0.4492	234-2; 236-4; 26-34; 25-35	2.461	2.270

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
41	20.56	5:4	068 096		24-35; 236-26	-	-
42	20.67	4:2	040	0.4552	23-23	0.988	0.911
43	20.92	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.12	4:1 5:3	058 067 100	0.4651	23-35; 245-3; 246-24	0.228	0.206
45	21.24	4:1	063	0.4677	235-4	0.158	0.146
46	21.41	4:1 5:3	074 094 061	0.4715	245-4; 235-26; 2345	0.350	0.323
47	21.54	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4770	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	2.647	2.429
49	21.96	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.25	4:1	056 060	0.4900	23-34; 234-4	1.742	1.607
51	22.50	5:3 6:4	084 092 155	0.4955	236-23; 235-25; 246-246	2.840	2.343
52	22.63	5:3	089	0.4983	234-26	0.366	0.302
53	22.75	5:2	090 101	0.5010	235-24; 245-25	1.313	1.083
54	22.95	5:2	079 099 113	0.5054	34-35; 245-24; 236-35	0.670	0.553
55	23.25	5:2 6:4	119 150	0.5120	246-34; 236-246	0.058	0.048
56	23.33	5:2	078 083 112 108	0.5138	345-3; 235-23; 2356-3; 2346-3	0.498	0.411
57	23.55	5:2 6:4	097 152 086	0.5186	245-23; 2356-26; 2345-2	1.057	0.872
58	23.71	5:2	081 087 117 125 115 145	0.5221	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.649	0.535
59	23.90	5:2	116 085 111	0.5263	23456; 234-24; 235-35	1.008	0.832
60	24.01	6:4	120 136		245-35; 236-236	-	-
61	24.11	5:2	077 110 148	0.5309	34-34; 236-34; 235-246	1.718	1.418
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5391	234-23	0.154	0.127
64	24.78	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135	0.5488	345-25; 235-236	0.067	0.052
66	24.96	6:3	144		2346-25	-	-
67	25.03	5:1 6:3	107 109 147	0.5512	234-35; 235-34; 2356-24	0.209	0.167
68	25.14	5:1	123		345-24	-	-
69	25.23	5:1 6:3	106 118 139 149	0.5556	2345-3; 245-34; 2346-24; 236-245	0.731	0.583
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.21	5:1 6:3	105 132 161	0.5772	234-34; 234-236; 2346-35	0.492	0.381
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.28	6:2 7:4	130 176	0.6007	234-235; 2346-236	0.187	0.140
82	27.49	6:2	138 163 164	0.6054	234-245; 2356-34; 236-345	0.601	0.449
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.61	7:3	182 187		2345-246; 2356-245	-	-
89	28.78	6:2	128 162	0.6338	234-234; 235-345	0.155	0.115
90	28.94	7:3	183		2346-245	-	-
91	29.23	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.87	7:3	174 181		2345-236; 23456-24	-	-
94	30.12	7:3	177		2356-234	-	-
95	30.45	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.67	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.92	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 25.0 ng/L

Total Nanomoles = 0.093

Average Molecular Weight = 269.3

Number of Calibrated Peaks Found = 64

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050314
ELAP ID No:	11078	LRF ID:	09050314-04RR1
Matrix:	Water	Client ID:	WFF-MOCO-090529-BT001
Sample Wt(Dry)/Vol:	1060 mL	Lab Sample ID:	AM06271RR1
% Moisture:	100	Lab File ID:	GC24-73-16
Extraction:	Solid Phase Extraction - 1L	Date Received:	05/29/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	06/01/2009 01:56
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:		

OCN (I.S.) Peak Area: 154105

Percent Recovery (50 - 150 %): 133

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

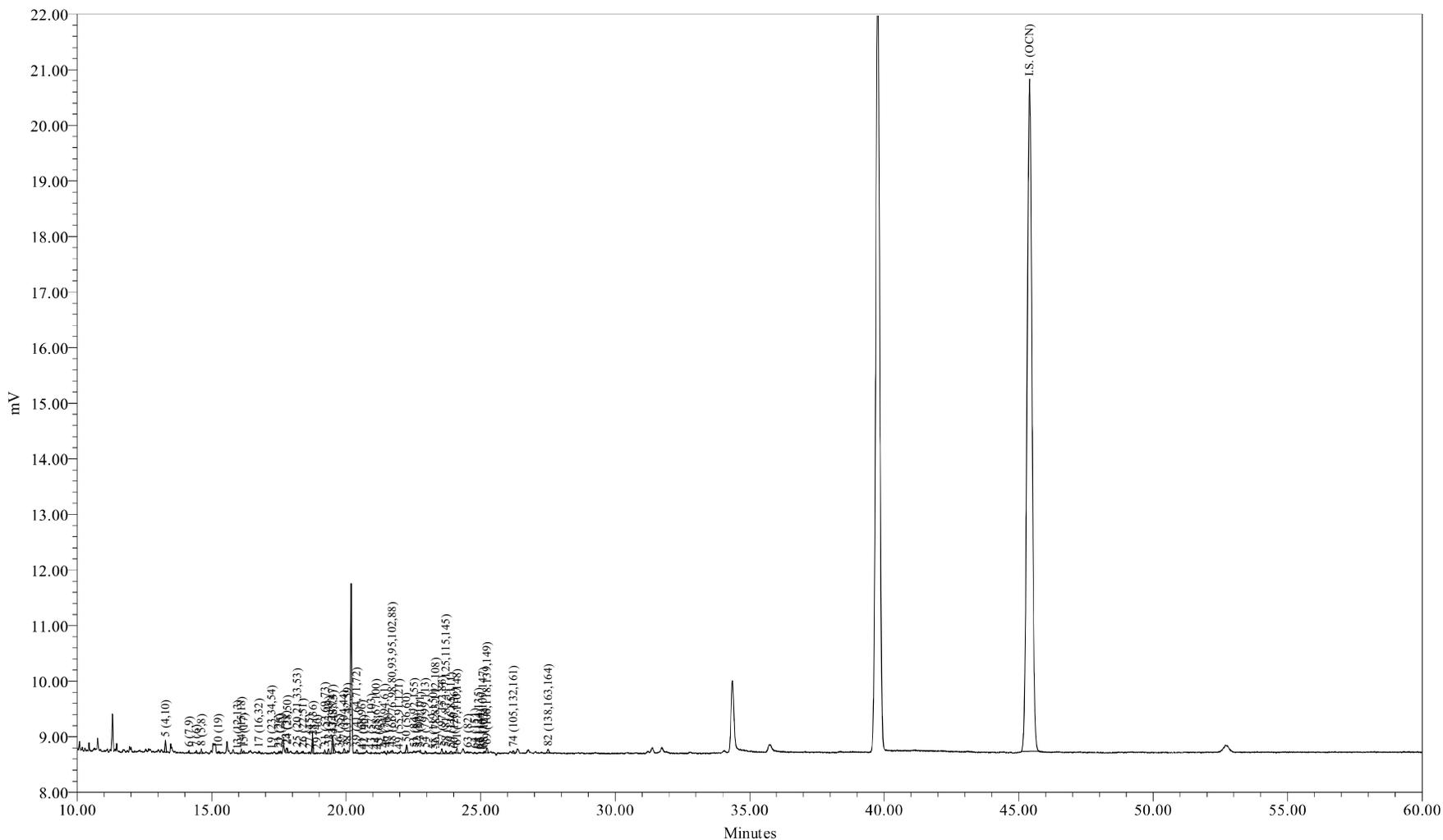
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM06271RR1  
Sample ID: WFF-MOCO-090529-BT001  
Date Acquired: 6/1/2009 1:56:13 AM EDT

Sample Amount (L) : 1.0600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-16

Sample Name: AM06271RR1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-MOCO-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 01:56:13  
 Lab Sample ID: AM06271RR1  
 LRF ID: 09050314-04RR1  
 Lab File ID: GC24-73-16

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <9.10 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	47.42	53.09
Tri	25.03	24.27
Tetra	17.19	14.70
Penta	10.36	7.93
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001		0	0
A1242	23+24/31+28		0	0
A1254SED	61/100	0.1327	100	
A1254BIO	69+75+82/149+153+138	0.0008		100
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.69

Meta + Para Cl / biphenyl Residue = 1.08

Total Cl / biphenyl Residue = 2.77

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-MOCO-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 01:56:13  
 Lab Sample ID: AM06271RR1  
 LRF ID: 09050314-04RR1  
 Lab File ID: GC24-73-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7				0.529	2.19	U
3	12.58	188.7				6.63	1000	U
4	12.68	188.7				0.355	1.28	U
5	13.28	223.1	471	2.20	9.88	0.134	0.621	
6	14.15	223.1	101	0.0780	0.350	0.0721	0.219	J
7	14.43	223.1	116	0.191	0.855	0.158	0.347	J
8	14.62	223.1	213			0.542	2.56	U
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	117	0.183	0.710	0.0604	0.102	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.97	223.1	23			0.0559	0.0975	U
14	16.10	249.0	190			0.128	0.676	U
15	16.19	257.5	114	0.213	0.826	0.143	0.676	JB
16	16.49	257.5				0.0374	0.0475	U
17	16.75	257.5	140			0.166	0.713	U
19	17.22	267.9	29			0.128	25.0	U
20	17.37	257.5				0.0108	0.0194	U
21	17.50	257.5	110	0.131	0.509	0.0606	0.132	JB
22	17.56	257.5	116	0.112	0.433	0.0426	0.0585	B
23	17.77	257.5	240			0.487	0.753	U
24	17.82	257.5	235			0.211	0.964	U
25	18.18	259.5	187			0.105	0.726	U
26	18.40	258.7	129			0.120	0.530	U
27	18.63	292.0	73	0.0716	0.245	0.0367	0.163	JB
28	18.76	257.5	261	0.468	1.82	0.375	25.0	J
29	18.91	292.0	64			0.127	0.127	U
30	19.03	257.5				0.120	25.0	U
31	19.21	292.0	203			0.204	0.872	U
32	19.35	292.0	277	0.118	0.405	0.0978	0.420	J
33	19.50	292.0	932	0.481	1.65	0.0656	0.183	
34	19.53	292.0	346	0.205	0.701	0.0579	0.183	
35	19.68	292.0				0.205	25.0	U
36	19.72	257.5	106	0.199	0.772	0.144	25.0	J

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.92	292.0	253			0.160	0.786	U
38	20.05	272.4	107			0.115	0.475	U
39	20.39	292.0	207			0.121	0.749	U
41	20.59	326.4	27			0.115	25.0	U
42	20.65	292.0	17			0.0968	0.172	U
43	20.93	298.9	27			0.152	25.0	U
44	21.10	298.9	41	0.0268	0.0897	0.0225	0.0402	J
45	21.22	292.0	9			0.0299	0.0384	U
46	21.42	292.0	93			0.0821	0.347	U
47	21.54	292.0	86			0.164	0.621	U
48	21.72	293.5	226			0.243	1.32	U
49	21.96	324.7	9			0.0376	0.0932	U
50	22.24	292.0	450			0.359	0.640	U
51	22.52	326.4	59			0.0888	0.329	U
52	22.63	326.4	26			0.0384	0.0384	U
53	22.75	326.4	99			0.0691	0.329	U
54	22.94	326.4	119			0.101	0.135	U
55	23.25	326.4	20			0.00644	0.0102	U
56	23.33	326.4	80	0.0700	0.214	0.0647	0.0647	U
57	23.56	326.4	339	0.187	0.573	0.0435	0.102	B
58	23.70	326.4	170			0.0841	0.212	U
59	23.90	326.4	197	0.0958	0.294	0.0484	0.128	J
60	24.02	360.9	73			0.0772	0.137	U
61	24.12	326.4	307	0.133	0.406	0.0668	0.389	J
62	24.39	360.9				0.113	25.0	U
63	24.52	326.4	71	0.0494	0.151	0.0201	0.0804	J
64	24.78	360.9	61			0.0518	0.311	U
65	24.92	350.5	19			0.0149	0.0530	U
66	24.98	360.9	35			0.0541	0.110	U
67	25.07	336.8	16			0.0348	0.0475	U
68	25.13	326.4	91			0.125	25.0	U
69	25.24	337.5	350			0.0938	0.731	U
70	25.33	360.9				0.0829	25.0	U
71	25.62	347.8				0.0348	0.0369	U
72	25.82	336.8				0.00638	0.0106	U
73	26.08	360.9				0.0320	0.0713	U
74	26.21	347.8	165			0.0721	0.248	U
75	26.36	360.9				0.109	0.538	U
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.29	360.9				0.0151	0.0475	U
82	27.50	360.9	288			0.108	0.493	U
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3				0.0677	0.201	U
87	28.51	395.3				0.0156	0.0731	U
88	28.65	395.3				0.102	0.658	U
89	28.76	360.9				0.0199	0.0366	U
90	28.94	395.3				0.0679	0.311	U
91	29.19	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.89	394.3				0.102	0.585	U
94	30.15	394.3				0.0936	0.311	U
95	30.43	382.2				0.0871	0.144	U
96	30.69	429.8				0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.90	395.3				0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = <9.10 ng/L 9.10 32.2 U

Total Nanomoles = 0.021

Average Molecular Weight = 249.8

Number of Calibrated Peaks Found = 57

Internal Standard Retention Time = 45.40 minutes

Internal Standard Peak Area = 154105.0

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
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 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-MOCO-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 01:56:13  
 Lab Sample ID: AM06271RR1  
 LRF ID: 09050314-04RR1  
 Lab File ID: GC24-73-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001		2	-	-
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.28	2:2	004 010	0.2925	2-2; 26	42.268	47.322
6	14.15	2:1	007 009	0.3117	24; 25	1.496	1.675
7	14.43	2:1	006	0.3178	2-3	3.657	4.094
8	14.62	2:1	005 008		23; 2-4	-	-
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3359	26-2	3.508	3.403
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.97	2:0	012 013		34; 3-4	-	-
14	16.10	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.19	3:2	017	0.3566	24-2	4.078	3.956
16	16.49	3:2	024 027		236; 26-3	-	-
17	16.75	3:2	016 032		23-2; 26-4	-	-
19	17.22	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026	0.3855	25-3	2.514	2.439
22	17.56	3:1	025	0.3868	24-3	2.140	2.076
23	17.77	3:1	031		25-4	-	-
24	17.82	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.18	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.40	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.63	4:3	045	0.4104	236-2	1.373	1.175
28	18.76	3:0	036	0.4132	35-3	8.975	8.706
29	18.91	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.21	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.35	4:2	043 049	0.4262	235-2; 24-25	2.265	1.938
33	19.50	4:2	038 047	0.4295	345; 24-24	9.218	7.885
34	19.53	4:2	048 075	0.4302	245-2; 246-4	3.927	3.359
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.72	3:0	035	0.4344	34-3	3.810	3.696
37	19.92	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.05	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.39	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
41	20.59	5:4	068 096		24-35; 236-26	-	-
42	20.65	4:2	040		23-23	-	-
43	20.93	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.10	4:1 5:3	058 067 100	0.4648	23-35; 245-3; 246-24	0.514	0.430
45	21.22	4:1	063		235-4	-	-
46	21.42	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.54	4:1	070		25-34	-	-
48	21.72	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.96	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.24	4:1	056 060		23-34; 234-4	-	-
51	22.52	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.63	5:3	089		234-26	-	-
53	22.75	5:2	090 101		235-24; 245-25	-	-
54	22.94	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.25	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.33	5:2	078 083 112 108	0.5139	345-3; 235-23; 2356-3; 2346-3	1.342	1.027
57	23.56	5:2 6:4	097 152 086	0.5189	245-23; 2356-26; 2345-2	3.584	2.743
58	23.70	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.90	5:2	116 085 111	0.5264	23456; 234-24; 235-35	1.838	1.406
60	24.02	6:4	120 136		245-35; 236-236	-	-
61	24.12	5:2	077 110 148	0.5313	34-34; 236-34; 235-246	2.544	1.947
62	24.39	6:3	154		245-246	-	-
63	24.52	5:2	082	0.5401	234-23	0.948	0.726
64	24.78	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.98	6:3	144		2346-25	-	-
67	25.07	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.13	5:1	123		345-24	-	-
69	25.24	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.21	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.50	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = <9.10 ng/L

Total Nanomoles = 0.021

Average Molecular Weight = 249.8

Number of Calibrated Peaks Found = 57

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 1060 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:

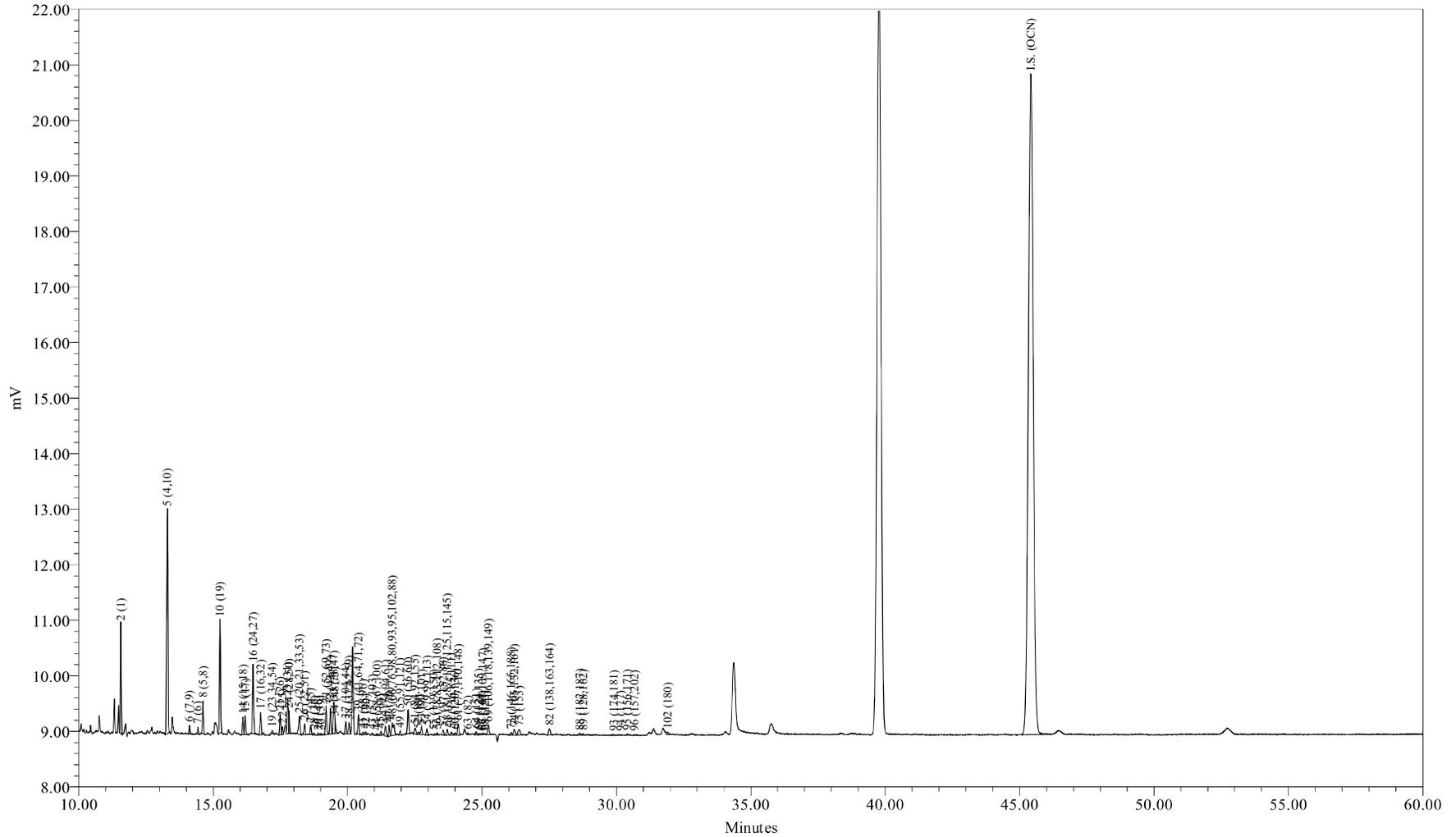
SDG No: 09050314  
LRF ID: 09050314-05RR1  
Client ID: WFF-WAFA-090529-BT001  
Lab Sample ID: AM06272RR1  
Lab File ID: GC24-73-9  
Date Received: 05/29/2009  
Date Extracted: 05/29/2009  
Date/Time Analyzed: 05/31/2009 18:17  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 151377

Percent Recovery (50 - 150 %): 131

SAMPLE TOTAL PCB CONCENTRATION: 186 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM06272RR1  
Sample ID: WFF-WAFA-090529-BT001  
Date Acquired: 5/31/2009 6:17:49 PM EDT

Sample Amount (L) : 1.0600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-9

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 18:17:49  
 Lab Sample ID: AM06272RR1  
 LRF ID: 09050314-05RR1  
 Lab File ID: GC24-73-9

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 186 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	36.13	41.47
Di	43.94	42.63
Tri	12.89	10.84
Tetra	5.04	3.75
Penta	1.71	1.14
Hexa	0.29	0.17
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	67.3193	95.9	96.0
A1242	23+24/31+28	2.3799	3.39	3.39
A1254SED	61/100	0.4839	0.689	
A1254BIO	69+75+82/149+153+138	0.4307		0.614
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 0.24

Total Cl / biphenyl Residue = 1.81

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 18:17:49  
 Lab Sample ID: AM06272RR1  
 LRF ID: 09050314-05RR1  
 Lab File ID: GC24-73-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	3691	67.3	357	0.529	2.19	
3	12.58	188.7				6.63	1000	U
4	12.68	188.7				0.355	1.28	U
5	13.30	223.1	1386	78.5	352	1.34	6.21	
6	14.12	223.1	341	0.362	1.62	0.0721	0.219	
7	14.43	223.1	268	0.559	2.51	0.158	0.347	
8	14.62	223.1	1446	2.12	9.48	0.542	2.56	J
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	498	8.83	34.3	0.604	1.02	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.98	223.1				0.0559	0.0975	U
14	16.11	249.0	881	1.32	5.28	0.128	0.676	
15	16.19	257.5	878	2.53	9.83	0.143	0.676	B
16	16.48	257.5	3335	3.09	12.0	0.0374	0.0475	
17	16.77	257.5	1198	1.89	7.33	0.166	0.713	
19	17.20	267.9	157	0.223	0.831	0.128	25.0	J
20	17.37	257.5				0.0108	0.0194	U
21	17.50	257.5	1078	1.37	5.33	0.0606	0.132	B
22	17.58	257.5	421	0.411	1.60	0.0426	0.0585	B
23	17.77	257.5	1878	1.74	6.75	0.487	0.753	
24	17.82	257.5	927	0.643	2.50	0.211	0.964	J
25	18.21	259.5	1172	1.26	4.87	0.105	0.726	
26	18.40	258.7	610	0.641	2.48	0.120	0.530	
27	18.63	292.0	432	0.486	1.66	0.0367	0.163	B
28	18.76	257.5	76			0.375	25.0	U
29	18.92	292.0	135	0.167	0.571	0.127	0.127	
30	19.01	257.5	101	0.189	0.734	0.120	25.0	J
31	19.20	292.0	1578	2.26	7.75	0.204	0.872	
32	19.36	292.0	1393	1.01	3.46	0.0978	0.420	
33	19.49	292.0	2071	1.13	3.86	0.0656	0.183	
34	19.53	292.0	445	0.287	0.983	0.0579	0.183	
35	19.68	292.0				0.205	25.0	U
36	19.76	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	656	0.399	1.37	0.160	0.786	J
38	20.06	272.4	619	0.640	2.35	0.115	0.475	
39	20.40	292.0	1096	0.662	2.27	0.121	0.749	J
41	20.58	326.4	135	0.181	0.555	0.115	25.0	J
42	20.67	292.0	149	0.144	0.493	0.0968	0.172	J
43	20.92	298.9	117			0.152	25.0	U
44	21.10	298.9	137	0.0887	0.297	0.0225	0.0402	
45	21.24	292.0	257	0.168	0.575	0.0299	0.0384	
46	21.41	292.0	637	0.239	0.818	0.0821	0.347	J
47	21.55	292.0	569	0.197	0.675	0.164	0.621	J
48	21.66	293.5	1395	0.977	3.33	0.243	1.32	J
49	21.96	324.7	251	0.190	0.586	0.0376	0.0932	
50	22.25	292.0	1491	0.788	2.70	0.359	0.640	
51	22.51	326.4	411	0.689	2.11	0.0888	0.329	
52	22.63	326.4	122	0.0999	0.306	0.0384	0.0384	B
53	22.75	326.4	472	0.319	0.978	0.0691	0.329	J
54	22.96	326.4	376	0.167	0.513	0.101	0.135	
55	23.21	326.4	62	0.0197	0.0603	0.00644	0.0102	
56	23.33	326.4	133	0.115	0.353	0.0647	0.0647	
57	23.55	326.4	357	0.201	0.617	0.0435	0.102	B
58	23.71	326.4	389	0.239	0.731	0.0841	0.212	
59	23.86	326.4	247	0.126	0.386	0.0484	0.128	J
60	24.00	360.9	158			0.0772	0.137	U
61	24.11	326.4	738	0.484	1.48	0.0668	0.389	
62	24.39	360.9				0.113	25.0	U
63	24.48	326.4	79	0.0550	0.169	0.0201	0.0804	J
64	24.78	360.9	169			0.0518	0.311	U
65	24.89	350.5	74	0.0234	0.0667	0.0149	0.0530	J
66	25.00	360.9	52	0.0589	0.163	0.0541	0.110	J
67	25.03	336.8	85	0.0635	0.189	0.0348	0.0475	
68	25.12	326.4	34			0.125	25.0	U
69	25.24	337.5	656	0.197	0.583	0.0938	0.731	J
70	25.33	360.9				0.0829	25.0	U
71	25.62	347.8				0.0348	0.0369	U
72	25.82	336.8				0.00638	0.0106	U
73	26.09	360.9	150	0.0884	0.245	0.0320	0.0713	
74	26.20	347.8	424	0.186	0.535	0.0721	0.248	J
75	26.38	360.9	540	0.129	0.358	0.109	0.538	J
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.29	360.9				0.0151	0.0475	U
82	27.51	360.9	466			0.108	0.493	U
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3				0.0677	0.201	U
87	28.51	395.3				0.0156	0.0731	U
88	28.64	395.3	172			0.102	0.658	U
89	28.78	360.9	94	0.0409	0.113	0.0199	0.0366	
90	28.94	395.3				0.0679	0.311	U
91	29.19	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.90	394.3	80			0.102	0.585	U
94	30.15	394.3	31			0.0936	0.311	U
95	30.41	382.2	76			0.0871	0.144	U
96	30.67	429.8	70			0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.91	395.3	172			0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = 186 ng/L

10.8 38.7

Total Nanomoles = 0.860

Average Molecular Weight = 216.6

Number of Calibrated Peaks Found = 67

Internal Standard Retention Time = 45.42 minutes

Internal Standard Peak Area = 151376.6

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 18:17:49  
 Lab Sample ID: AM06272RR1  
 LRF ID: 09050314-05RR1  
 Lab File ID: GC24-73-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2547	2	36.133	41.468
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.30	2:2	004 010	0.2928	2-2; 26	42.134	40.900
6	14.12	2:1	007 009	0.3109	24; 25	0.194	0.189
7	14.43	2:1	006	0.3177	2-3	0.300	0.291
8	14.62	2:1	005 008	0.3219	23; 2-4	1.135	1.102
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	4.740	3.986
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018	0.3547	4-4; 25-2	0.706	0.614
15	16.19	3:2	017	0.3565	24-2	1.359	1.143
16	16.48	3:2	024 027	0.3628	236; 26-3	1.659	1.396
17	16.77	3:2	016 032	0.3692	23-2; 26-4	1.013	0.852
19	17.20	3:1 4:4	023 034 054	0.3787	235; 35-2; 26-26	0.119	0.097
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026	0.3853	25-3	0.737	0.620
22	17.58	3:1	025	0.3871	24-3	0.221	0.186
23	17.77	3:1	031	0.3912	25-4	0.932	0.784
24	17.82	3:1 4:3	028 050	0.3923	24-4; 246-2	0.345	0.290
25	18.21	3:1 4:3	020 021 033 053	0.4009	23-3; 234; 34-2; 25-26	0.678	0.566
26	18.40	3:1 4:3	022 051	0.4051	23-4; 24-26	0.344	0.288
27	18.63	4:3	045	0.4102	236-2	0.261	0.193
28	18.76	3:0	036		35-3	-	-
29	18.92	4:3	046	0.4166	23-26	0.089	0.066
30	19.01	3:0	039	0.4185	35-4	0.101	0.085
31	19.20	4:2	052 069 073	0.4227	25-25; 246-3; 26-35	1.214	0.900
32	19.36	4:2	043 049	0.4262	235-2; 24-25	0.543	0.403
33	19.49	4:2	038 047	0.4291	345; 24-24	0.606	0.449
34	19.53	4:2	048 075	0.4300	245-2; 246-4	0.154	0.114
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044	0.4388	246-26; 23-25	0.214	0.159
38	20.06	3:0 4:2	037 042 059	0.4417	34-4; 23-24; 236-3	0.344	0.273
39	20.40	4:2	041 064 071 072	0.4491	234-2; 236-4; 26-34; 25-35	0.355	0.263

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.58	5:4	068 096	0.4531	24-35; 236-26	0.097	0.065
42	20.67	4:2	040	0.4551	23-23	0.077	0.057
43	20.92	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.10	4:1 5:3	058 067 100	0.4646	23-35; 245-3; 246-24	0.048	0.034
45	21.24	4:1	063	0.4676	235-4	0.090	0.067
46	21.41	4:1 5:3	074 094 061	0.4714	245-4; 235-26; 2345	0.128	0.095
47	21.55	4:1	070	0.4745	25-34	0.106	0.078
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4769	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.524	0.387
49	21.96	4:1 5:3	055 091 121	0.4835	234-3; 236-24; 246-35	0.102	0.068
50	22.25	4:1	056 060	0.4899	23-34; 234-4	0.423	0.314
51	22.51	5:3 6:4	084 092 155	0.4956	236-23; 235-25; 246-246	0.370	0.245
52	22.63	5:3	089	0.4982	234-26	0.054	0.036
53	22.75	5:2	090 101	0.5009	235-24; 245-25	0.171	0.114
54	22.96	5:2	079 099 113	0.5055	34-35; 245-24; 236-35	0.090	0.060
55	23.21	5:2 6:4	119 150	0.5110	246-34; 236-246	0.011	0.007
56	23.33	5:2	078 083 112 108	0.5137	345-3; 235-23; 2356-3; 2346-3	0.062	0.041
57	23.55	5:2 6:4	097 152 086	0.5185	245-23; 2356-26; 2345-2	0.108	0.072
58	23.71	5:2	081 087 117 125 115 145	0.5220	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.128	0.085
59	23.86	5:2	116 085 111	0.5253	23456; 234-24; 235-35	0.068	0.045
60	24.00	6:4	120 136		245-35; 236-236	-	-
61	24.11	5:2	077 110 148	0.5308	34-34; 236-34; 235-246	0.260	0.172
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5390	234-23	0.030	0.020
64	24.78	6:3	151		2356-25	-	-
65	24.89	5:1 6:3	124 135	0.5480	345-25; 235-236	0.013	0.008
66	25.00	6:3	144	0.5504	2346-25	0.032	0.019
67	25.03	5:1 6:3	107 109 147	0.5511	234-35; 235-34; 2356-24	0.034	0.022
68	25.12	5:1	123		345-24	-	-
69	25.24	5:1 6:3	106 118 139 149	0.5557	2345-3; 245-34; 2346-24; 236-245	0.106	0.068
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.09	6:2	146 165 188	0.5744	235-245; 2356-35; 2356-246	0.047	0.028
74	26.20	5:1 6:3	105 132 161	0.5768	234-34; 234-236; 2346-35	0.100	0.062
75	26.38	6:2	153	0.5808	245-245	0.069	0.042
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.64	7:3	182 187		2345-246; 2356-245	-	-
89	28.78	6:2	128 162	0.6336	234-234; 235-345	0.022	0.013
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.90	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.41	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.67	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.91	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 186 ng/L

Total Nanomoles = 0.860

Average Molecular Weight = 216.6

Number of Calibrated Peaks Found = 67

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

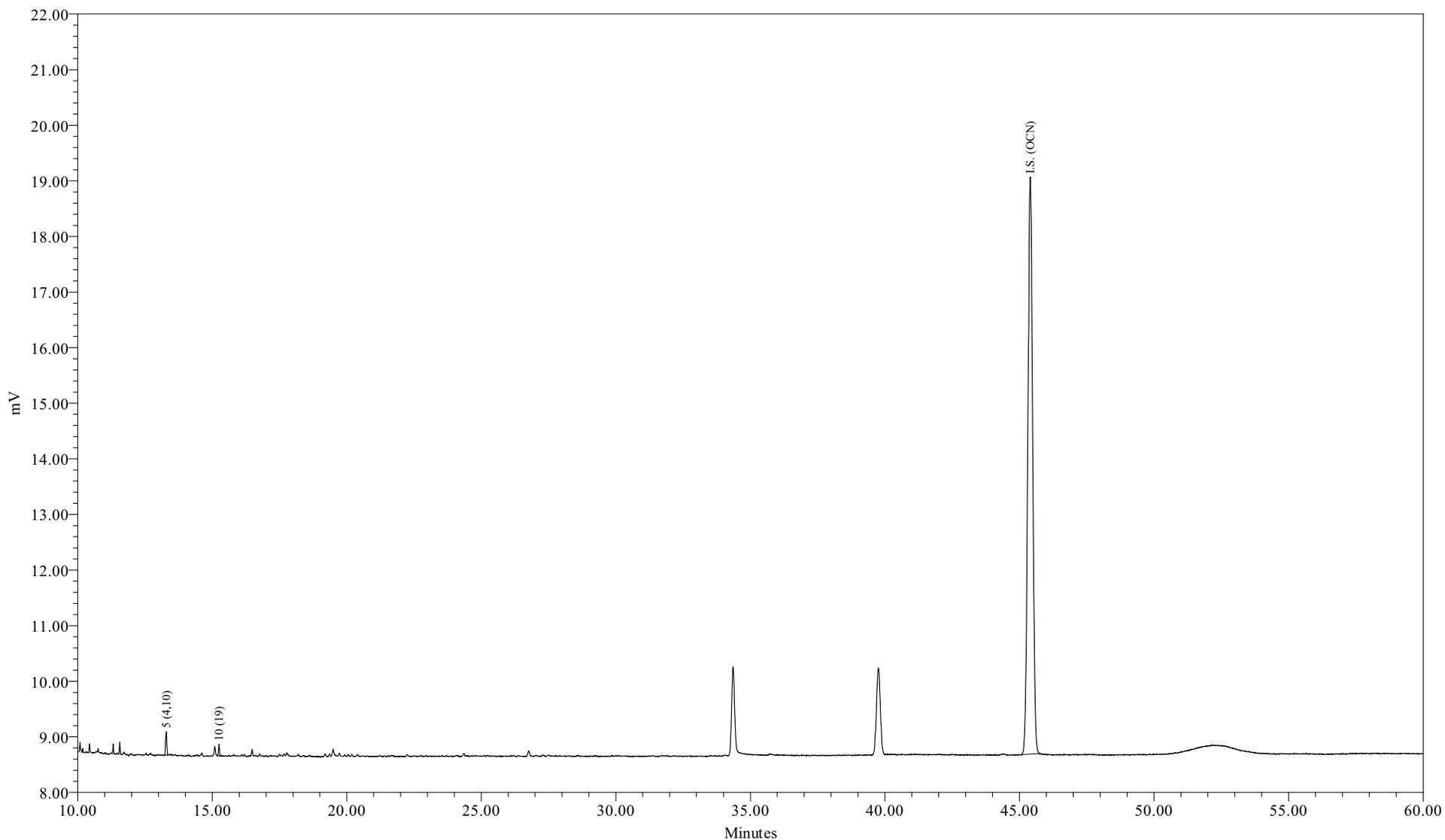
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM06272DL1RR1  
Sample ID: WFF-WAFA-090529-BT001  
Date Acquired: 6/1/2009 4:06:51 AM EDT

Sample Amount (L) : 1.0600  
Dilution: 50  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-18

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 04:06:51  
 Lab Sample ID: AM06272DL1RR1  
 LRF ID: 09050314-05DL1RR1  
 Lab File ID: GC24-73-18

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 87.3 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	89.89	91.12
Tri	10.11	8.88
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.09

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.09

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 04:06:51  
 Lab Sample ID: AM06272DL1RR1  
 LRF ID: 09050314-05DL1RR1  
 Lab File ID: GC24-73-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7				5.29	21.9	U
3	12.58	188.7				66.3	10000	U
4	12.68	188.7				3.55	12.8	U
5	13.30	223.1	1386	78.5	352	1.34	6.21	U
6	14.13	223.1				0.721	2.19	U
7	14.44	223.1				1.58	3.47	U
8	14.62	223.1				5.42	25.6	U
9	15.18	223.1				2.94	250	U
10	15.25	257.5	498	8.83	34.3	0.604	1.02	U
11	15.72	257.5				1.98	250	U
12	15.78	223.1				3.06	250	U
13	15.98	223.1				0.559	0.975	U
14	16.11	249.0				1.28	6.76	U
15	16.19	257.5				1.43	6.76	U
16	16.49	257.5				0.374	0.475	U
17	16.75	257.5				1.66	7.13	U
19	17.20	267.9				1.28	250	U
20	17.37	257.5				0.108	0.194	U
21	17.50	257.5				0.606	1.32	U
22	17.58	257.5				0.426	0.585	U
23	17.78	257.5				4.87	7.53	U
24	17.82	257.5				2.11	9.64	U
25	18.17	259.5				1.05	7.26	U
26	18.41	258.7				1.20	5.30	U
27	18.63	292.0				0.367	1.63	U
28	18.77	257.5				3.75	250	U
29	18.91	292.0				1.27	1.27	U
30	19.03	257.5				1.20	250	U
31	19.20	292.0				2.04	8.72	U
32	19.37	292.0				0.978	4.20	U
33	19.48	292.0				0.656	1.83	U
34	19.54	292.0				0.579	1.83	U
35	19.68	292.0				2.05	250	U
36	19.76	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0				1.60	7.86	U
38	20.06	272.4				1.15	4.75	U
39	20.41	292.0				1.21	7.49	U
41	20.57	326.4				1.15	250	U
42	20.67	292.0				0.968	1.72	U
43	20.92	298.9				1.52	250	U
44	21.09	298.9				0.225	0.402	U
45	21.25	292.0				0.299	0.384	U
46	21.41	292.0				0.821	3.47	U
47	21.55	292.0				1.64	6.21	U
48	21.66	293.5				2.43	13.2	U
49	21.96	324.7				0.376	0.932	U
50	22.26	292.0				3.59	6.40	U
51	22.51	326.4				0.888	3.29	U
52	22.61	326.4				0.384	0.384	U
53	22.76	326.4				0.691	3.29	U
54	22.95	326.4				1.01	1.35	U
55	23.23	326.4				0.0644	0.102	U
56	23.33	326.4				0.647	0.647	U
57	23.54	326.4				0.435	1.02	U
58	23.71	326.4				0.841	2.12	U
59	23.86	326.4				0.484	1.28	U
60	23.99	360.9				0.772	1.37	U
61	24.12	326.4				0.668	3.89	U
62	24.39	360.9				1.13	250	U
63	24.48	326.4				0.201	0.804	U
64	24.78	360.9				0.518	3.11	U
65	24.92	350.5				0.149	0.530	U
66	24.98	360.9				0.541	1.10	U
67	25.04	336.8				0.348	0.475	U
68	25.13	326.4				1.25	250	U
69	25.22	337.5				0.938	7.31	U
70	25.33	360.9				0.829	250	U
71	25.62	347.8				0.348	0.369	U
72	25.82	336.8				0.0638	0.106	U
73	26.08	360.9				0.320	0.713	U
74	26.20	347.8				0.721	2.48	U
75	26.36	360.9				1.09	5.38	U
76	26.47	360.9				1.07	250	U
77	26.87	360.9				0.637	3.11	U
78	26.94	395.3				0.470	2.67	U
79	27.13	360.9				0.501	0.501	U
80	27.29	360.9				0.151	0.475	U
82	27.51	360.9				1.08	4.93	U
83	27.68	360.9				0.450	0.457	U
84	27.88	360.9				0.0310	0.0473	U
85	28.21	395.3				0.677	2.01	U
87	28.51	395.3				0.156	0.731	U
88	28.65	395.3				1.02	6.58	U
89	28.76	360.9				0.199	0.366	U
90	28.94	395.3				0.679	3.11	U
91	29.19	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.225	0.859	U
93	29.89	394.3				1.02	5.85	U
94	30.15	394.3				0.936	3.11	U
95	30.43	382.2				0.871	1.44	U
96	30.69	429.8				0.0942	0.121	U
98	30.85	395.3				0.133	0.139	U
99	31.21	429.8				0.863	0.863	U
100	31.45	395.3				1.27	1.27	U
101	31.71	429.8				2.17	2.17	U
102	31.90	395.3				1.50	11.1	U
103	32.15	395.3				0.640	0.768	U
104	32.45	395.3				0.374	0.438	U
105	32.78	429.8				0.460	0.786	U
106	33.90	395.3				0.538	2.34	U
107	34.15	395.3				0.213	0.768	U
108	34.98	429.8				0.324	0.438	U
109	35.22	429.8				1.16	7.68	U
110	35.74	429.8				1.84	7.86	U
111	36.86	395.3				0.231	0.231	U
112	38.35	429.8				0.368	1.01	U
113	38.85	464.2				0.438	0.903	U
114	39.76	464.2				0.154	0.340	U
115	41.12	429.8				0.969	3.29	U
116	41.98	429.8				0.838	0.838	U
117	46.94	464.2				0.384	1.24	U
118	52.76	498.6				0.126	0.126	U

Total Concentration = 87.3 ng/L

91.0

322

Total Nanomoles = 0.386

Average Molecular Weight = 226.2

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 45.40 minutes

Internal Standard Peak Area = 129485.2

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 04:06:51  
 Lab Sample ID: AM06272DL1RR1  
 LRF ID: 09050314-05DL1RR1  
 Lab File ID: GC24-73-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	2		-	-
3	12.58	1:0	002	3		-	-
4	12.68	1:0	003	4		-	-
5	13.30	2:2	004 010	0.2930	2-2; 26	89.888	91.119
6	14.13	2:1	007 009		24; 25	-	-
7	14.44	2:1	006		2-3	-	-
8	14.62	2:1	005 008		23; 2-4	-	-
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3359	26-2	10.112	8.881
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.19	3:2	017		24-2	-	-
16	16.49	3:2	024 027		236; 26-3	-	-
17	16.75	3:2	016 032		23-2; 26-4	-	-
19	17.20	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026		25-3	-	-
22	17.58	3:1	025		24-3	-	-
23	17.78	3:1	031		25-4	-	-
24	17.82	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.17	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.41	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.63	4:3	045		236-2	-	-
28	18.77	3:0	036		35-3	-	-
29	18.91	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.37	4:2	043 049		235-2; 24-25	-	-
33	19.48	4:2	038 047		345; 24-24	-	-
34	19.54	4:2	048 075		245-2; 246-4	-	-
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.06	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.41	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096		24-35; 236-26	-	-
42	20.67	4:2	040		23-23	-	-
43	20.92	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.09	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.25	4:1	063		235-4	-	-
46	21.41	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.55	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.96	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.26	4:1	056 060		23-34; 234-4	-	-
51	22.51	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.61	5:3	089		234-26	-	-
53	22.76	5:2	090 101		235-24; 245-25	-	-
54	22.95	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.23	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.33	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.54	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.71	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.86	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.99	6:4	120 136		245-35; 236-236	-	-
61	24.12	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082		234-23	-	-
64	24.78	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.98	6:3	144		2346-25	-	-
67	25.04	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.13	5:1	123		345-24	-	-
69	25.22	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.20	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 87.3 ng/L

Total Nanomoles = 0.386

Average Molecular Weight = 226.2

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB SAMPLE ANALYSIS DATA SHEET**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09050314</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>09050314-06RR1</u>
Matrix:	<u>Water</u>	Client ID:	<u>WFF-WAFO-090529-BT001</u>
Sample Wt(Dry)/Vol:	<u>1000 mL</u>	Lab Sample ID:	<u>AM06273RR1</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-73-10</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u>05/29/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>05/29/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>05/31/2009 19:23</u>
Analytical SOP Reference:	<u>SOP NE207_03</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:</u>		

OCN (I.S.) Peak Area: 151929

Percent Recovery (50 - 150 %): 131

SAMPLE TOTAL PCB CONCENTRATION: 177 ng/L

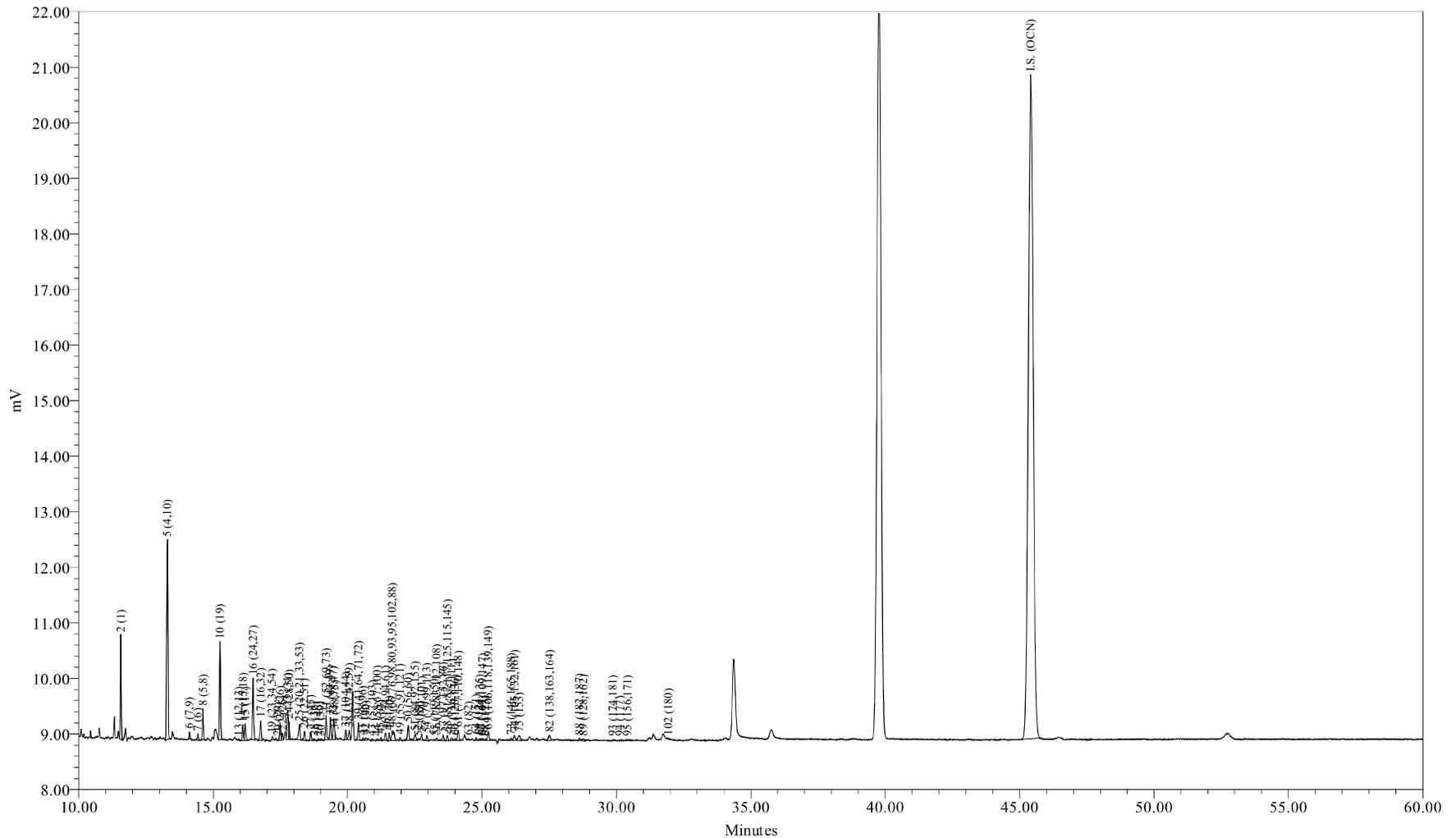
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM06273RR1  
Sample ID: WFF-WAFO-090529-BT001  
Date Acquired: 5/31/2009 7:23:25 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-10

Sample Name: AM06273RR1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 19:23:25  
 Lab Sample ID: AM06273RR1  
 LRF ID: 09050314-06RR1  
 Lab File ID: GC24-73-10

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 177 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	37.91	43.24
Di	43.38	41.84
Tri	12.81	10.71
Tetra	4.14	3.07
Penta	1.53	1.01
Hexa	0.22	0.14
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	67.0433	96.4	96.5
A1242	23+24/31+28	2.0900	3.01	3.01
A1254SED	61/100	0.4040	0.581	
A1254BIO	69+75+82/149+153+138	0.3384		0.487
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 0.21

Total Cl / biphenyl Residue = 1.77

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 19:23:25  
 Lab Sample ID: AM06273RR1  
 LRF ID: 09050314-06RR1  
 Lab File ID: GC24-73-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	3482	67.0	355	0.529	2.19	
3	12.58	188.7				6.63	1000	U
4	12.68	188.7				0.355	1.28	U
5	13.30	223.1	1160	73.2	328	1.34	6.21	
6	14.12	223.1	301	0.332	1.49	0.0721	0.219	
7	14.43	223.1	321	0.722	3.24	0.158	0.347	
8	14.62	223.1	1345	2.06	9.22	0.542	2.56	J
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	429	8.49	33.0	0.604	1.02	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.96	223.1	70	0.132	0.590	0.0559	0.0975	
14	16.11	249.0	833	1.30	5.21	0.128	0.676	
15	16.19	257.5	823	2.50	9.70	0.143	0.676	B
16	16.48	257.5	3050	2.99	11.6	0.0374	0.0475	
17	16.77	257.5	1074	1.77	6.87	0.166	0.713	
19	17.19	267.9	207	0.310	1.16	0.128	25.0	J
20	17.40	257.5	13	0.0117	0.0453	0.0108	0.0194	J
21	17.49	257.5	918	1.23	4.79	0.0606	0.132	B
22	17.57	257.5	334	0.345	1.34	0.0426	0.0585	B
23	17.77	257.5	1718	1.65	6.42	0.487	0.753	
24	17.82	257.5	689	0.438	1.70	0.211	0.964	J
25	18.21	259.5	1003	1.11	4.29	0.105	0.726	
26	18.40	258.7	498	0.523	2.02	0.120	0.530	J
27	18.63	292.0	440	0.523	1.79	0.0367	0.163	B
28	18.75	257.5	102			0.375	25.0	U
29	18.91	292.0	137	0.178	0.611	0.127	0.127	
30	19.00	257.5	69	0.135	0.524	0.120	25.0	J
31	19.20	292.0	1330	1.97	6.75	0.204	0.872	
32	19.36	292.0	1185	0.893	3.06	0.0978	0.420	
33	19.48	292.0	1284	0.725	2.48	0.0656	0.183	
34	19.53	292.0	224	0.120	0.411	0.0579	0.183	J
35	19.68	292.0				0.205	25.0	U
36	19.76	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	509	0.261	0.894	0.160	0.786	J
38	20.06	272.4	582	0.626	2.30	0.115	0.475	
39	20.40	292.0	981	0.602	2.06	0.121	0.749	J
41	20.57	326.4	105	0.148	0.454	0.115	25.0	J
42	20.66	292.0	129	0.132	0.452	0.0968	0.172	J
43	20.91	298.9	145			0.152	25.0	U
44	21.10	298.9	120	0.0827	0.277	0.0225	0.0402	
45	21.24	292.0	193	0.133	0.457	0.0299	0.0384	
46	21.41	292.0	385	0.110	0.375	0.0821	0.347	J
47	21.55	292.0	387			0.164	0.621	U
48	21.66	293.5	1092	0.706	2.41	0.243	1.32	J
49	21.96	324.7	195	0.151	0.464	0.0376	0.0932	
50	22.26	292.0	1000	0.489	1.68	0.359	0.640	J
51	22.52	326.4	394	0.696	2.13	0.0888	0.329	
52	22.63	326.4	64	0.0529	0.162	0.0384	0.0384	B
53	22.76	326.4	345	0.229	0.702	0.0691	0.329	J
54	22.95	326.4	265	0.116	0.355	0.101	0.135	J
55	23.24	326.4	32	0.0103	0.0314	0.00644	0.0102	
56	23.31	326.4	153	0.139	0.427	0.0647	0.0647	
57	23.55	326.4	341	0.203	0.621	0.0435	0.102	B
58	23.71	326.4	259	0.155	0.475	0.0841	0.212	J
59	23.86	326.4	173	0.0883	0.270	0.0484	0.128	J
60	24.00	360.9	126			0.0772	0.137	U
61	24.11	326.4	613	0.404	1.24	0.0668	0.389	
62	24.39	360.9				0.113	25.0	U
63	24.49	326.4	72	0.0537	0.164	0.0201	0.0804	J
64	24.78	360.9	108			0.0518	0.311	U
65	24.91	350.5	80	0.0270	0.0769	0.0149	0.0530	J
66	24.99	360.9	49	0.0596	0.165	0.0541	0.110	J
67	25.02	336.8	96	0.0763	0.227	0.0348	0.0475	
68	25.13	326.4	49			0.125	25.0	U
69	25.23	337.5	554	0.136	0.402	0.0938	0.731	J
70	25.33	360.9				0.0829	25.0	U
71	25.62	347.8				0.0348	0.0369	U
72	25.82	336.8				0.00638	0.0106	U
73	26.08	360.9	108	0.0677	0.188	0.0320	0.0713	J
74	26.20	347.8	389	0.179	0.515	0.0721	0.248	J
75	26.38	360.9	473			0.109	0.538	U
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.29	360.9				0.0151	0.0475	U
82	27.51	360.9	458			0.108	0.493	U
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3				0.0677	0.201	U
87	28.51	395.3				0.0156	0.0731	U
88	28.62	395.3	181			0.102	0.658	U
89	28.78	360.9	165	0.0745	0.206	0.0199	0.0366	
90	28.94	395.3				0.0679	0.311	U
91	29.19	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.86	394.3	64			0.102	0.585	U
94	30.13	394.3	40			0.0936	0.311	U
95	30.41	382.2	104			0.0871	0.144	U
96	30.69	429.8				0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.93	395.3	77			0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = 177 ng/L

10.8 38.7

Total Nanomoles = 0.822

Average Molecular Weight = 215.3

Number of Calibrated Peaks Found = 68

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 151928.7

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 19:23:25  
 Lab Sample ID: AM06273RR1  
 LRF ID: 09050314-06RR1  
 Lab File ID: GC24-73-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	37.906	43.240
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.30	2:2	004 010	0.2929	2-2; 26	41.366	39.911
6	14.12	2:1	007 009	0.3109	24; 25	0.188	0.181
7	14.43	2:1	006	0.3178	2-3	0.408	0.394
8	14.62	2:1	005 008	0.3220	23; 2-4	1.163	1.122
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	4.802	4.014
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.96	2:0	012 013	0.3515	34; 3-4	0.074	0.072
14	16.11	2:0 3:2	015 018	0.3548	4-4; 25-2	0.733	0.634
15	16.19	3:2	017	0.3565	24-2	1.412	1.181
16	16.48	3:2	024 027	0.3629	236; 26-3	1.688	1.411
17	16.77	3:2	016 032	0.3693	23-2; 26-4	1.000	0.836
19	17.19	3:1 4:4	023 034 054	0.3786	235; 35-2; 26-26	0.175	0.141
20	17.40	3:1	029	0.3832	245	0.007	0.006
21	17.49	3:1	026	0.3852	25-3	0.697	0.583
22	17.57	3:1	025	0.3869	24-3	0.195	0.163
23	17.77	3:1	031	0.3913	25-4	0.934	0.781
24	17.82	3:1 4:3	028 050	0.3924	24-4; 246-2	0.248	0.207
25	18.21	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	0.629	0.522
26	18.40	3:1 4:3	022 051	0.4052	23-4; 24-26	0.296	0.246
27	18.63	4:3	045	0.4103	236-2	0.296	0.218
28	18.75	3:0	036		35-3	-	-
29	18.91	4:3	046	0.4164	23-26	0.101	0.074
30	19.00	3:0	039	0.4184	35-4	0.076	0.064
31	19.20	4:2	052 069 073	0.4228	25-25; 246-3; 26-35	1.114	0.821
32	19.36	4:2	043 049	0.4263	235-2; 24-25	0.505	0.372
33	19.48	4:2	038 047	0.4290	345; 24-24	0.410	0.302
34	19.53	4:2	048 075	0.4301	245-2; 246-4	0.068	0.050
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044	0.4389	246-26; 23-25	0.148	0.109
38	20.06	3:0 4:2	037 042 059	0.4418	34-4; 23-24; 236-3	0.354	0.280
39	20.40	4:2	041 064 071 072	0.4492	234-2; 236-4; 26-34; 25-35	0.340	0.251

DB-1 Peak <sup>1</sup>	Retention						Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>		Percent	Percent
41	20.57	5:4	068 096	0.4530	24-35; 236-26		0.084	0.055
42	20.66	4:2	040	0.4550	23-23		0.075	0.055
43	20.91	4:1 5:3	057 103		235-3; 246-25		-	-
44	21.10	4:1 5:3	058 067 100	0.4647	23-35; 245-3; 246-24		0.047	0.034
45	21.24	4:1	063	0.4677	235-4		0.075	0.056
46	21.41	4:1 5:3	074 094 061	0.4715	245-4; 235-26; 2345		0.062	0.046
47	21.55	4:1	070		25-34		-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4770	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2		0.399	0.293
49	21.96	4:1 5:3	055 091 121	0.4836	234-3; 236-24; 246-35		0.085	0.057
50	22.26	4:1	056 060	0.4902	23-34; 234-4		0.277	0.204
51	22.52	5:3 6:4	084 092 155	0.4959	236-23; 235-25; 246-246		0.394	0.260
52	22.63	5:3	089	0.4983	234-26		0.030	0.020
53	22.76	5:2	090 101	0.5012	235-24; 245-25		0.130	0.085
54	22.95	5:2	079 099 113	0.5054	34-35; 245-24; 236-35		0.066	0.043
55	23.24	5:2 6:4	119 150	0.5118	246-34; 236-246		0.006	0.004
56	23.31	5:2	078 083 112 108	0.5133	345-3; 235-23; 2356-3; 2346-3		0.079	0.052
57	23.55	5:2 6:4	097 152 086	0.5186	245-23; 2356-26; 2345-2		0.115	0.076
58	23.71	5:2	081 087 117 125 115 145	0.5221	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26		0.088	0.058
59	23.86	5:2	116 085 111	0.5254	23456; 234-24; 235-35		0.050	0.033
60	24.00	6:4	120 136		245-35; 236-236		-	-
61	24.11	5:2	077 110 148	0.5309	34-34; 236-34; 235-246		0.228	0.151
62	24.39	6:3	154		245-246		-	-
63	24.49	5:2	082	0.5393	234-23		0.030	0.020
64	24.78	6:3	151		2356-25		-	-
65	24.91	5:1 6:3	124 135	0.5486	345-25; 235-236		0.015	0.009
66	24.99	6:3	144	0.5503	2346-25		0.034	0.020
67	25.02	5:1 6:3	107 109 147	0.5510	234-35; 235-34; 2356-24		0.043	0.028
68	25.13	5:1	123		345-24		-	-
69	25.23	5:1 6:3	106 118 139 149	0.5556	2345-3; 245-34; 2346-24; 236-245		0.077	0.049
70	25.33	6:3	140		234-246		-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26		-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2		-	-
73	26.08	6:2	146 165 188	0.5743	235-245; 2356-35; 2356-246		0.038	0.023
74	26.20	5:1 6:3	105 132 161	0.5770	234-34; 234-236; 2346-35		0.101	0.063
75	26.38	6:2	153		245-245		-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246		-	-
77	26.87	6:2	141		2345-25		-	-
78	26.94	7:4	179		2356-236		-	-
79	27.13	6:2	137		2345-24		-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236		-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345		-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26		-	-
84	27.88	6:2	126 129		345-34; 2345-23		-	-
85	28.21	7:3	166 178		23456-4; 2356-235		-	-
87	28.51	7:3	175 159		2346-235; 2345-35		-	-
88	28.62	7:3	182 187		2345-246; 2356-245		-	-
89	28.78	6:2	128 162	0.6338	234-234; 235-345		0.042	0.025
90	28.94	7:3	183		2346-245		-	-
91	29.19	6:1	167		245-345		-	-
92	29.53	7:3	185		23456-25		-	-
93	29.86	7:3	174 181		2345-236; 23456-24		-	-
94	30.13	7:3	177		2356-234		-	-
95	30.41	6:1 7:3	156 171		2345-34; 2346-234		-	-
96	30.69	8:4	157 202		234-345; 2356-2356		-	-
98	30.85	7:3	173		23456-23		-	-
99	31.21	8:4	201		2346-2356		-	-
100	31.45	7:2	172 204		2345-235; 23456-246		-	-
101	31.71	8:4	192 197		23456-35; 2346-2346		-	-
102	31.93	7:2	180		2345-245		-	-
103	32.15	7:2	193		2356-345		-	-
104	32.45	7:2	191		2346-345		-	-
105	32.78	8:4	200 169		23456-236; 345-345		-	-
106	33.90	7:2	170		2345-234		-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 177 ng/L

Total Nanomoles = 0.822

Average Molecular Weight = 215.3

Number of Calibrated Peaks Found = 68

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

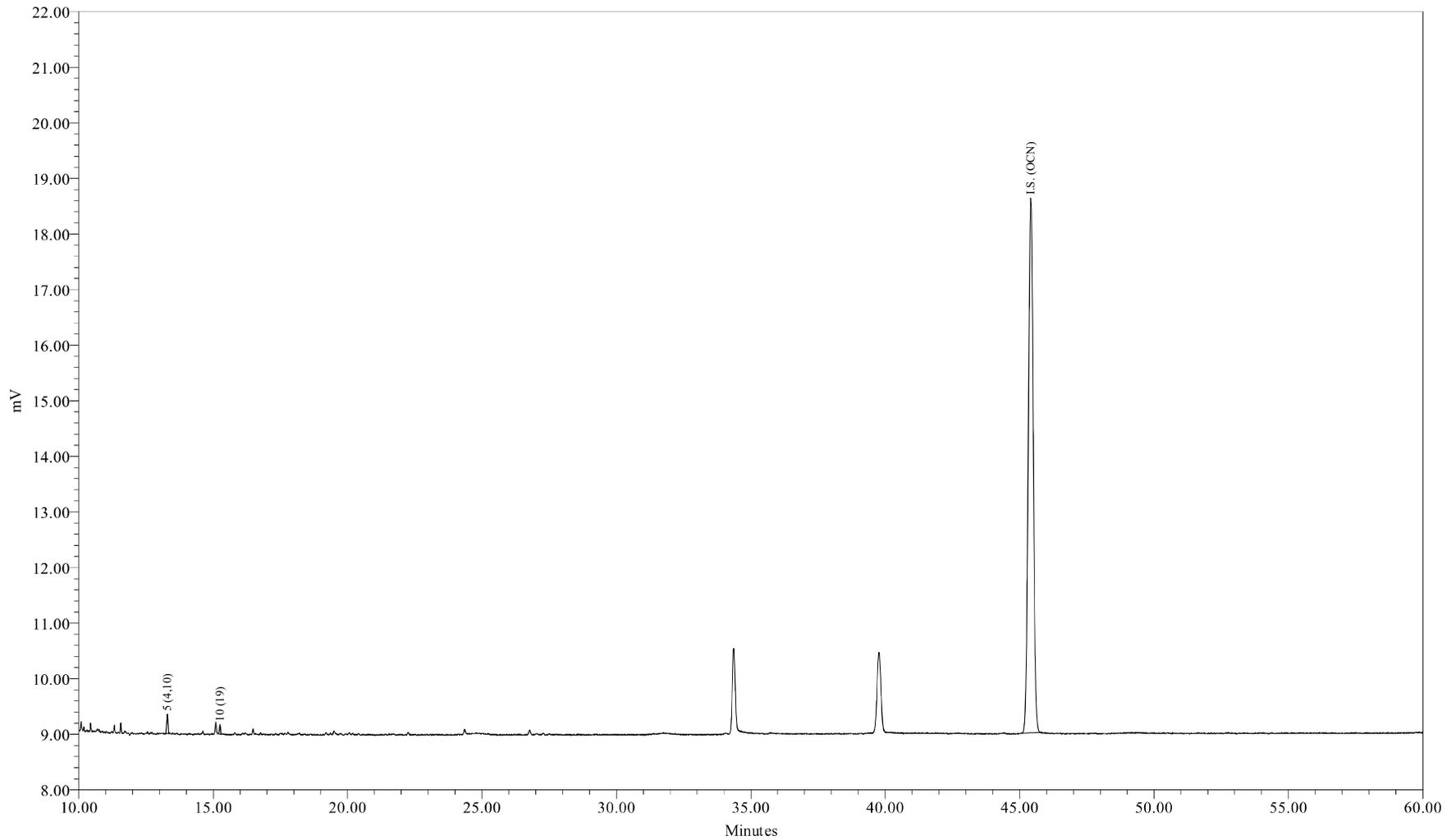
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM06273DL1  
Sample ID: WFF-WAFO-090529-BT001  
Date Acquired: 5/31/2009 3:00:50 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 50  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-6

Sample Name: AM06273DL1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 15:00:50  
 Lab Sample ID: AM06273DL1  
 LRF ID: 09050314-06DL1  
 Lab File ID: GC24-73-6

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 81.7 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	89.60	90.86
Tri	10.40	9.14
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.09

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.09

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 15:00:50  
 Lab Sample ID: AM06273DL1  
 LRF ID: 09050314-06DL1  
 Lab File ID: GC24-73-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7				5.29	21.9	U
3	12.58	188.7				66.3	10000	U
4	12.68	188.7				3.55	12.8	U
5	13.30	223.1	1160	73.2	328	1.34	6.21	U
6	14.13	223.1				0.721	2.19	U
7	14.44	223.1				1.58	3.47	U
8	14.62	223.1				5.42	25.6	U
9	15.18	223.1				2.94	250	U
10	15.25	257.5	429	8.49	33.0	0.604	1.02	U
11	15.72	257.5				1.98	250	U
12	15.78	223.1				3.06	250	U
13	15.98	223.1				0.559	0.975	U
14	16.11	249.0				1.28	6.76	U
15	16.19	257.5				1.43	6.76	U
16	16.49	257.5				0.374	0.475	U
17	16.75	257.5				1.66	7.13	U
19	17.20	267.9				1.28	250	U
20	17.37	257.5				0.108	0.194	U
21	17.50	257.5				0.606	1.32	U
22	17.58	257.5				0.426	0.585	U
23	17.78	257.5				4.87	7.53	U
24	17.82	257.5				2.11	9.64	U
25	18.17	259.5				1.05	7.26	U
26	18.41	258.7				1.20	5.30	U
27	18.63	292.0				0.367	1.63	U
28	18.77	257.5				3.75	250	U
29	18.91	292.0				1.27	1.27	U
30	19.03	257.5				1.20	250	U
31	19.20	292.0				2.04	8.72	U
32	19.37	292.0				0.978	4.20	U
33	19.48	292.0				0.656	1.83	U
34	19.54	292.0				0.579	1.83	U
35	19.68	292.0				2.05	250	U
36	19.76	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0				1.60	7.86	U
38	20.06	272.4				1.15	4.75	U
39	20.41	292.0				1.21	7.49	U
41	20.57	326.4				1.15	250	U
42	20.67	292.0				0.968	1.72	U
43	20.92	298.9				1.52	250	U
44	21.09	298.9				0.225	0.402	U
45	21.25	292.0				0.299	0.384	U
46	21.41	292.0				0.821	3.47	U
47	21.55	292.0				1.64	6.21	U
48	21.66	293.5				2.43	13.2	U
49	21.96	324.7				0.376	0.932	U
50	22.26	292.0				3.59	6.40	U
51	22.51	326.4				0.888	3.29	U
52	22.61	326.4				0.384	0.384	U
53	22.76	326.4				0.691	3.29	U
54	22.95	326.4				1.01	1.35	U
55	23.23	326.4				0.0644	0.102	U
56	23.33	326.4				0.647	0.647	U
57	23.54	326.4				0.435	1.02	U
58	23.71	326.4				0.841	2.12	U
59	23.86	326.4				0.484	1.28	U
60	23.99	360.9				0.772	1.37	U
61	24.12	326.4				0.668	3.89	U
62	24.39	360.9				1.13	250	U
63	24.48	326.4				0.201	0.804	U
64	24.78	360.9				0.518	3.11	U
65	24.92	350.5				0.149	0.530	U
66	24.98	360.9				0.541	1.10	U
67	25.04	336.8				0.348	0.475	U
68	25.13	326.4				1.25	250	U
69	25.22	337.5				0.938	7.31	U
70	25.33	360.9				0.829	250	U
71	25.62	347.8				0.348	0.369	U
72	25.82	336.8				0.0638	0.106	U
73	26.08	360.9				0.320	0.713	U
74	26.20	347.8				0.721	2.48	U
75	26.36	360.9				1.09	5.38	U
76	26.47	360.9				1.07	250	U
77	26.87	360.9				0.637	3.11	U
78	26.94	395.3				0.470	2.67	U
79	27.13	360.9				0.501	0.501	U
80	27.29	360.9				0.151	0.475	U
82	27.51	360.9				1.08	4.93	U
83	27.68	360.9				0.450	0.457	U
84	27.88	360.9				0.0310	0.0473	U
85	28.21	395.3				0.677	2.01	U
87	28.51	395.3				0.156	0.731	U
88	28.65	395.3				1.02	6.58	U
89	28.76	360.9				0.199	0.366	U
90	28.94	395.3				0.679	3.11	U
91	29.19	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.225	0.859	U
93	29.89	394.3				1.02	5.85	U
94	30.15	394.3				0.936	3.11	U
95	30.43	382.2				0.871	1.44	U
96	30.69	429.8				0.0942	0.121	U
98	30.85	395.3				0.133	0.139	U
99	31.21	429.8				0.863	0.863	U
100	31.45	395.3				1.27	1.27	U
101	31.71	429.8				2.17	2.17	U
102	31.90	395.3				1.50	11.1	U
103	32.15	395.3				0.640	0.768	U
104	32.45	395.3				0.374	0.438	U
105	32.78	429.8				0.460	0.786	U
106	33.90	395.3				0.538	2.34	U
107	34.15	395.3				0.213	0.768	U
108	34.98	429.8				0.324	0.438	U
109	35.22	429.8				1.16	7.68	U
110	35.74	429.8				1.84	7.86	U
111	36.86	395.3				0.231	0.231	U
112	38.35	429.8				0.368	1.01	U
113	38.85	464.2				0.438	0.903	U
114	39.76	464.2				0.154	0.340	U
115	41.12	429.8				0.969	3.29	U
116	41.98	429.8				0.838	0.838	U
117	46.94	464.2				0.384	1.24	U
118	52.76	498.6				0.126	0.126	U

Total Concentration = 81.7 ng/L

91.0

322

Total Nanomoles = 0.361

Average Molecular Weight = 226.2

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 123134.3

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090529-BT001  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 15:00:50  
 Lab Sample ID: AM06273DL1  
 LRF ID: 09050314-06DL1  
 Lab File ID: GC24-73-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001		2	-	-
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.30	2:2	004 010	0.2929	2-2; 26	89.600	90.862
6	14.13	2:1	007 009		24; 25	-	-
7	14.44	2:1	006		2-3	-	-
8	14.62	2:1	005 008		23; 2-4	-	-
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	10.400	9.138
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.19	3:2	017		24-2	-	-
16	16.49	3:2	024 027		236; 26-3	-	-
17	16.75	3:2	016 032		23-2; 26-4	-	-
19	17.20	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026		25-3	-	-
22	17.58	3:1	025		24-3	-	-
23	17.78	3:1	031		25-4	-	-
24	17.82	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.17	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.41	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.63	4:3	045		236-2	-	-
28	18.77	3:0	036		35-3	-	-
29	18.91	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.37	4:2	043 049		235-2; 24-25	-	-
33	19.48	4:2	038 047		345; 24-24	-	-
34	19.54	4:2	048 075		245-2; 246-4	-	-
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.06	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.41	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096		24-35; 236-26	-	-
42	20.67	4:2	040		23-23	-	-
43	20.92	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.09	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.25	4:1	063		235-4	-	-
46	21.41	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.55	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.96	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.26	4:1	056 060		23-34; 234-4	-	-
51	22.51	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.61	5:3	089		234-26	-	-
53	22.76	5:2	090 101		235-24; 245-25	-	-
54	22.95	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.23	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.33	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.54	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.71	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.86	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.99	6:4	120 136		245-35; 236-236	-	-
61	24.12	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082		234-23	-	-
64	24.78	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.98	6:3	144		2346-25	-	-
67	25.04	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.13	5:1	123		345-24	-	-
69	25.22	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.20	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 81.7 ng/L

Total Nanomoles = 0.361

Average Molecular Weight = 226.2

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

# Sample GC Injection Log



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
Phone: (518) 346-4592 Fax: (518) 381-6055  
www.nealab.com

Sample Set Name: GC24\_CC\_051909  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 5/20/2009 12:45:29 AM EDT  
Current Date: 5/21/2009  
Report Name: CSGB\_SSReport

#### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090519B03	1.000	1.00	1	5/20/2009 12:51:04 AM EDT
2	HEXANE BLANK	Unknown	090519B04	1.000	1.00	1	5/20/2009 1:56:26 AM EDT
3	ICAL 6.25 ng/mL	Standard	ICAL0519A	1.000	1.00	1	5/20/2009 3:01:51 AM EDT
4	ICAL 12.5 ng/mL	Standard	ICAL0519B	1.000	1.00	1	5/20/2009 4:07:16 AM EDT
5	ICAL 125 ng/mL	Standard	ICAL0519C	1.000	1.00	1	5/20/2009 5:12:42 AM EDT
6	ICAL 314 ng/mL	Standard	ICAL0519D	1.000	1.00	1	5/20/2009 6:18:07 AM EDT
7	ICAL 627 ng/mL	Standard	ICAL0519E	1.000	1.00	1	5/20/2009 7:23:30 AM EDT
8	HEXANE BLANK	Unknown	090519B05	1.000	1.00	1	5/20/2009 8:28:58 AM EDT
9	SUP CONG STD 200/5 ng/mL	Standard	SC0519A	1.000	1.00	1	5/20/2009 9:34:29 AM EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0519A	1.000	1.00	1	5/20/2009 10:39:55 AM EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0519B	1.000	1.00	1	5/20/2009 11:45:24 AM EDT
12	HEXANE BLANK	Unknown	090519B06	1.000	1.00	1	5/20/2009 12:51:06 PM EDT
13	CCC Std 122 ng/mL	Unknown	CCCS0519A	1.000	1.00	1	5/20/2009 1:56:36 PM EDT



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Sample Set Name: GC24\_nea\_053109e  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 05/31/2009 09:17:05  
Date Printed: 06/10/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090531B01	1.000	1.00	1	05/31/2009 09:17:05
2	CCC Std 122 ng/mL	Unknown	CCCS0531A	1.000	1.00	1	05/31/2009 10:22:41
3	WFF-BDUP-090529-BT001	Unknown	AM06268DL1	1.040	50.00	5	05/31/2009 11:43:47
4	WFF-LHAL-090529-BT001	Unknown	AM06269DL1	1.040	50.00	5	05/31/2009 12:49:27
5	WFF-WAFO-090529-BT001	Unknown	AM06273DL1	1.000	50.00	5	05/31/2009 15:00:50
6	METHOD BLANK	Unknown	AM06270BRR1	1.000	5.00	5	05/31/2009 16:06:28
7	LAB CONTROL SPIKE	Unknown	AM06270LRR1	1.000	5.00	5	05/31/2009 17:12:09
8	WFF-WAFA-090529-BT001	Unknown	AM06272RR1	1.060	5.00	5	05/31/2009 18:17:49
9	WFF-WAFO-090529-BT001	Unknown	AM06273RR1	1.000	5.00	5	05/31/2009 19:23:25
10	WFF-BDUP-090529-BT001	Unknown	AM06268RR1	1.040	5.00	5	05/31/2009 20:29:12
11	CCC Std 122 ng/mL	Unknown	CCCS0531B	1.000	1.00	1	05/31/2009 21:34:42
12	WFF-LHAL-090529-BT001	Unknown	AM06269RR1	1.040	5.00	5	05/31/2009 22:40:04
13	WFF-LHPO-090529-BT001	Unknown	AM06270RR1	1.040	5.00	5	05/31/2009 23:45:28
14	WFF-LHPO-090529-BT001 MS	Unknown	AM06270MRR1	1.060	5.00	5	06/01/2009 00:50:51
15	WFF-MOCO-090529-BT001	Unknown	AM06271RR1	1.060	5.00	5	06/01/2009 01:56:13
16	CCC Std 122 ng/mL	Unknown	CCCS0531C	1.000	1.00	1	06/01/2009 03:01:32
17	WFF-WAFA-090529-BT001	Unknown	AM06272DL1RR1	1.060	50.00	5	06/01/2009 04:06:51
18	CCC Std 122 ng/mL	Unknown	CCCS0531D	1.000	1.00	1	06/01/2009 05:12:09



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Project Name: GC24\_Mar\_2009  
Sample Set Name: GC24\_nea\_053109e  
Date Printed: 06/01/2009

**Operating Conditions Gas Chromatography**

User Name: Amy Jo Arndt Injection Method: Splitless  
Sample Size: 1.0 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 27.0psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector Type: ECD Detector Range: 4

# Standards Summary Tables



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
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Sample Set Name: GC24\_CC\_051909  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 5/20/2009 12:45:29 AM EDT  
Current Date: 5/21/2009  
Report Name: CSGB\_SumRpt\_OCNArea

**ICAL OCN Area Summary Report**

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0519A	ICAL 6.25 ng/mL	5/20/2009 3:01:51 AM EDT	115508
2	ICAL0519B	ICAL 12.5 ng/mL	5/20/2009 4:07:16 AM EDT	113259
3	ICAL0519C	ICAL 125 ng/mL	5/20/2009 5:12:42 AM EDT	120264
4	ICAL0519D	ICAL 314 ng/mL	5/20/2009 6:18:07 AM EDT	113677
5	ICAL0519E	ICAL 627 ng/mL	5/20/2009 7:23:30 AM EDT	115526
Mean				115647



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

System Name: Instrument\_24 Date Calibrated: 5/20/2009 11:56:25 PM EDT  
 Sample Set Name: GC24\_CC\_051909 Method Report: CSGB CCSum by RF  
 Sample Set Date: 5/20/2009 12:45:29 AM EDT User Name: Amy Jo Arndt (AmyJoA)  
 Processing Method: CSGB\_LL1X\_051909

**Calibration Component Summary Table**  
**Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)	12 (11)
1	ICAL0519A	0.032701		0.014260	0.074641	0.531596	0.258880	0.145949				
2	ICAL0519B	0.035623		0.014948	0.079209	0.562511	0.299401	0.157068		0.323895		
3	ICAL0519C	0.032189		0.016288	0.074828	0.497221	0.249550	0.128791		0.382629		
4	ICAL0519D	0.030565		0.016197	0.073546	0.480311	0.234250	0.123200		0.381492		
5	ICAL0519E				0.068985					0.373668		
6	SC0519A		0.003728						0.180830		0.665724	0.063731
Mean		0.033	0.004	0.015	0.074	0.518	0.261	0.139	0.181	0.365	0.666	0.064
Std. Dev.		0.002		0.001	0.004	0.037	0.028	0.016		0.028		
% RSD		6.44		6.40	4.92	7.07	10.69	11.23		7.65		

**Calibration Component Summary Table**  
**Component Summary For RF**

	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)	24 (28,50)
1		0.509255	0.195531	0.658608	0.392257			0.473617	0.612551	0.670453	0.697306
2	0.311469	0.481604	0.231583	0.720465	0.386268		0.689968	0.438938	0.535220	0.682429	0.716202
3	0.350407	0.406244	0.194232	0.605589	0.344358		0.654986	0.457836	0.593239	0.561191	0.616725
4	0.386280	0.390223	0.185310	0.637637	0.326894		0.680215	0.437865	0.575715	0.521189	0.588396
5				0.599053							
6						0.400202					
Mean	0.349	0.447	0.202	0.644	0.362	0.400	0.675	0.452	0.579	0.609	0.655
Std. Dev.	0.037	0.058	0.020	0.049	0.032		0.018	0.017	0.033	0.080	0.062
% RSD	10.71	12.89	10.14	7.60	8.79		2.67	3.77	5.69	13.13	9.43

**Calibration Component Summary Table**  
**Component Summary For RF**

	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)	34 (48,75)	35 (62,65)
1	0.537784	0.534519	0.489242		0.545204		0.429412	0.827587	1.155859	0.931970	
2	0.557426	0.528497	0.537424		0.395815		0.435869	0.845528		0.877721	
3	0.478875	0.456102	0.512914		0.460900		0.376288	0.745600	1.092150	0.779695	
4	0.453664	0.433349	0.485167		0.433191		0.351580	0.703633	0.987210	0.713773	
5											
6				0.310499		0.304119					0.798101
Mean	0.507	0.488	0.506	0.310	0.459	0.304	0.398	0.781	1.078	0.826	0.798
Std. Dev.	0.049	0.051	0.024		0.063		0.041	0.067	0.085	0.098	

**Calibration Component Summary Table**

**Component Summary For RF**

	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)	34 (48,75)	35 (62,65)
% RSD	9.61	10.45	4.77		13.84		10.30	8.62	7.90	11.83	

**Calibration Component Summary Table**

**Component Summary For RF**

	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)	45 (63)	46 (74,94,61)
1		0.677929	0.540900	0.849862		0.607076			0.968206	1.301996
2		0.722494	0.559923	0.879519		0.556951		0.832497	0.776727	1.294494
3		0.585726	0.471125	0.755367		0.635094		0.926655	0.904329	1.106475
4		0.547992	0.443883	0.709365		0.592131		0.863402	0.841010	1.053355
5										
6	0.297423				0.422509		0.586988			
Mean	0.297	0.634	0.504	0.799	0.423	0.598	0.587	0.874	0.873	1.189
Std. Dev.		0.081	0.055	0.080		0.033		0.048	0.082	0.128
% RSD		12.72	10.98	9.97		5.44		5.49	9.44	10.76

**Calibration Component Summary Table**

**Component Summary For RF**

	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)	53 (90,101)	54 (79,99,113)
1	1.037323		0.716609	0.833499	1.056863	0.352568		0.754445
2	1.029744		0.684181	0.744363	1.063910	0.322250	0.712683	0.836571
3	0.889367		0.593796	0.706887	0.895220	0.350620	0.723003	0.753347
4	0.834610		0.554887	0.657445	0.852205	0.323222	0.647455	0.691109
5								
6								
Mean	0.948		0.637	0.736	0.967	0.337	0.694	0.759
Std. Dev.	0.102		0.076	0.074	0.109	0.017	0.041	0.060
% RSD	10.72		11.87	10.11	11.30	4.95	5.90	7.86

**Calibration Component Summary Table**

**Component Summary For RF**

	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)	60 (120,136)	61 (77,110,148)
1			1.047645		0.924048	1.056556	1.083997
2	1.750404	0.607228	0.988532		0.870128	1.090907	0.956474
3	1.899943	0.702747	1.008825		0.853374	1.025562	0.847203
4	1.637212	0.661522	0.939696		0.788100	0.979317	0.795367
5							
6							
Mean	1.763	0.657	0.996		0.859	1.038	0.921
Std. Dev.	0.132	0.048	0.045		0.056	0.047	0.128
% RSD	7.48	7.29	4.51		6.52	4.57	13.89

**Calibration Component Summary Table**

**Component Summary For RF**

	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)	69 (106,118,139,149)	70 (140)
1		0.767312	0.947097	1.469912	0.429047			1.062540	
2		0.905310	0.922601	1.587430	0.547757	0.746864		1.064306	

**Calibration Component Summary Table  
Component Summary For RF**

	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)	69 (106,118,139,149)	70 (140)
3		0.923689	0.815272	1.391560	0.536020	0.766414		0.907822	
4		0.874673	0.764332	1.380972	0.485862	0.643012		0.842589	
5									
6	0.693516						0.804415		0.816790
Mean	0.694	0.868	0.862	1.457	0.500	0.719	0.804	0.969	0.817
Std. Dev.		0.070	0.087	0.095	0.054	0.066		0.112	
% RSD		8.06	10.07	6.54	10.85	9.23		11.54	

**Calibration Component Summary Table  
Component Summary For RF**

	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)	76 (127,168,184)	77 (141)	78 (179)
1	0.955047		0.845478	1.146729	1.266991		0.725337	0.762881
2	0.940886	1.505490	1.056948	1.310901	1.310995		0.780203	0.960735
3	1.014576	1.412708	0.985080	1.244623	1.114454		0.713308	0.845949
4	0.968429	1.601538	0.946114	1.157982	1.037880		0.651692	0.779644
5								
6						0.711537		
Mean	0.970	1.507	0.958	1.215	1.183	0.712	0.718	0.837
Std. Dev.	0.032	0.094	0.088	0.077	0.128		0.053	0.090
% RSD	3.29	6.27	9.20	6.37	10.83		7.35	10.72

**Calibration Component Summary Table  
Component Summary For RF**

	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)	87 (175,159)	88 (182,187)	89 (128,162)
1		2.126652	1.207628	1.269474		0.670849		1.182546	
2	0.552376	2.128086	1.277972	1.211091	5.011101	0.560877	0.530807	1.198884	1.251130
3	0.555094	2.007793	1.057194	1.251996	5.228137	0.564860	0.625183	1.016742	1.405506
4	0.476035	1.768430	0.986010	1.142354	4.630207	0.531663	0.594554	0.951718	1.333478
5									
6									
Mean	0.528	2.008	1.132	1.219	4.956	0.582	0.584	1.087	1.330
Std. Dev.	0.045	0.169	0.134	0.056	0.303	0.061	0.048	0.122	0.077
% RSD	8.50	8.43	11.84	4.64	6.11	10.48	8.25	11.25	5.81

**Calibration Component Summary Table  
Component Summary For RF**

	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)	98 (173)	99 (201)	100 (172,204)
1	1.033866		1.200077	1.146693	0.866524	1.083934	6.322028		0.887410	1.089679
2	1.020188	1.532273	1.356916	1.089429	0.900809	0.944231	6.086169	1.402184	0.851869	0.870650
3	0.988686	1.595375	1.444156	0.982434	0.893274	0.984763	6.735016	1.308403	0.887960	0.879738
4	0.923452	1.338721	1.372793	0.931059	0.828783	0.920213	6.419408	1.185049	0.905992	0.855942
5										
6										
Mean	0.992	1.489	1.343	1.037	0.872	0.983	6.391	1.299	0.883	0.924
Std. Dev.	0.049	0.134	0.103	0.098	0.033	0.072	0.269	0.109	0.023	0.111

**Calibration Component Summary Table  
Component Summary For RF**

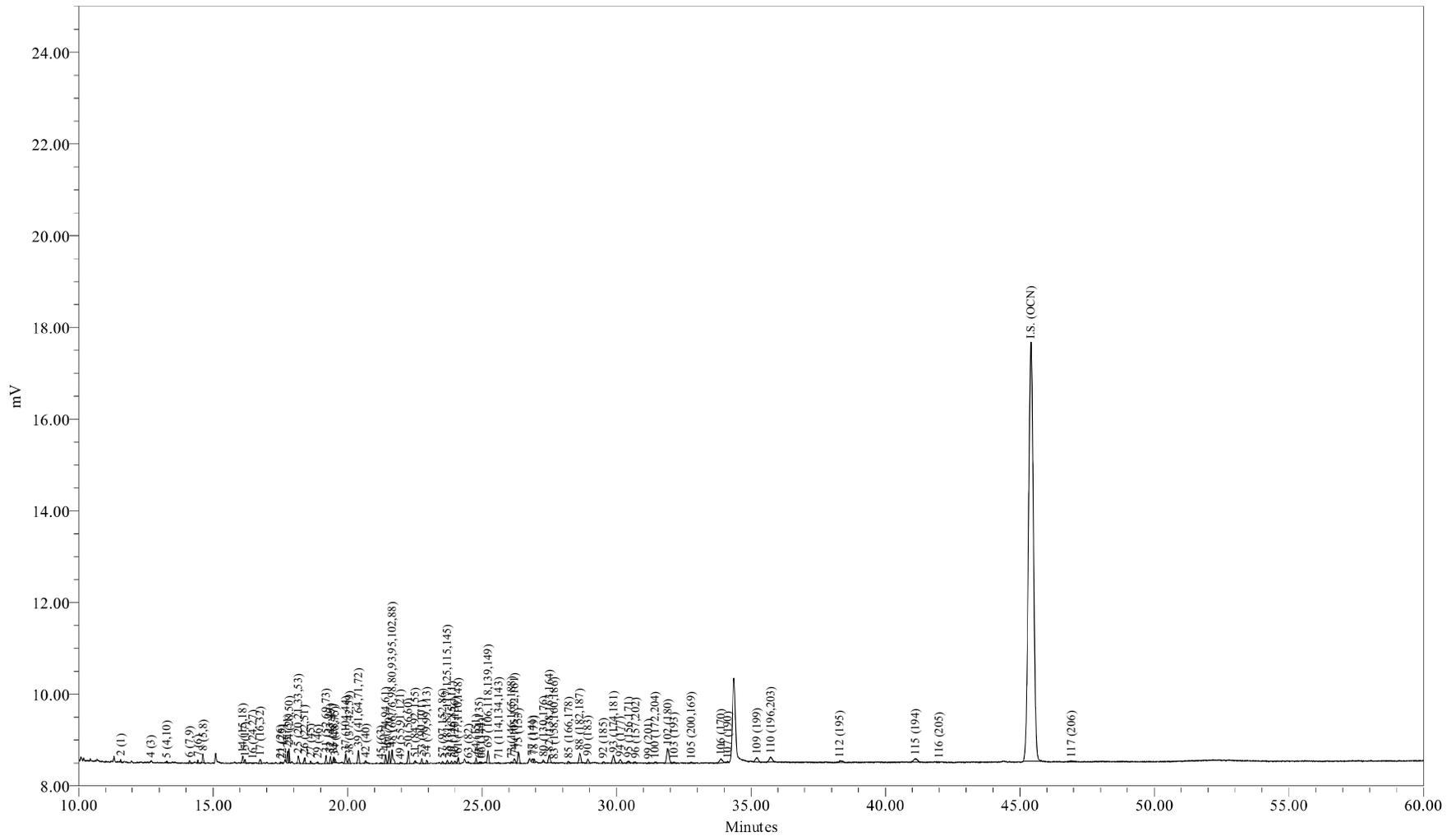
	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)	98 (173)	99 (201)	100 (172,204)
% RSD	4.96	8.98	7.66	9.47	3.73	7.34	4.21	8.39	2.57	12.00

**Calibration Component Summary Table  
Component Summary For RF**

	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)	108 (198)	109 (199)	110 (196,203)	111 (189)
1		1.351556	0.754223		1.051451	2.171353	1.166873		0.753773	0.850938	
2	0.839692	1.359305	0.810471	0.931893	0.946117	1.881771	1.186928	1.662372	0.767017	0.864528	1.875780
3	0.706563	1.161064	0.932155	0.871880	1.008903	1.738049	1.316736	1.793480	0.686178	0.739808	1.862511
4	0.741878	1.089379	0.888938	0.855658	0.971757	1.691392	1.461534	1.597722	0.642230	0.701422	1.705027
5											
6											
Mean	0.763	1.240	0.846	0.886	0.995	1.871	1.283	1.685	0.712	0.789	1.814
Std. Dev.	0.069	0.136	0.079	0.040	0.046	0.216	0.136	0.100	0.059	0.081	0.095
% RSD	9.04	10.98	9.39	4.53	4.61	11.56	10.62	5.92	8.23	10.25	5.24

**Calibration Component Summary Table  
Component Summary For RF**

	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1	1.984911			1.788471	1.220529	1.453446	
2	2.067736	0.595678	1.523566	1.850039	1.379985	1.552965	2.073059
3	2.017876	0.661639	1.423679	1.674666	1.362208	1.519662	2.108532
4	1.930349	0.693306	1.366176	1.558477	1.314935	1.497507	1.814449
5							
6							
Mean	2.000	0.650	1.438	1.718	1.319	1.506	1.999
Std. Dev.	0.058	0.050	0.080	0.129	0.071	0.042	0.161
% RSD	2.88	7.66	5.54	7.49	5.41	2.77	8.03



Sample Name: ICAL0519A  
Sample ID: ICAL 6.25 ng/mL  
Date Acquired: 5/20/2009 3:01:51 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID:

Sample Name: ICAL0519A

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0519A Sample Amount: 1  
 Sample ID: ICAL 6.25 ng/mL Dilution: 1  
 Date Acquired: 5/20/2009 3:01:51 AM EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 5/20/2009 11:56:16 PM EDT  
 Sample Set Name: GC24\_CC\_051909 User Name: Amy Jo Arndt (AmyJoA)  
 Processing Method: CSGB\_LL1X\_051909 Current Date: 5/21/2009  
 Run Time: 60.0 Minutes Current Time: 6:59:34 AM US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID:

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.569	91	0.439	0.439	0.032701
2	3 (2)	12.578				
3	4 (3)	12.684	23	0.256	0.256	0.014260
4	5 (4,10)	13.278	59	0.124	0.124	0.074641
5	6 (7,9)	14.120	148	0.044	0.044	0.531596
6	7 (6)	14.434	114	0.069	0.069	0.258880
7	8 (5,8)	14.622	474	0.512	0.512	0.145949
8	9 (14)	15.175				
9	10 (19)	15.258				
10	11 (30)	15.717				
11	12 (11)	15.777				
12	13 (12,13)	15.977				
13	14 (15,18)	16.102	438	0.135	0.135	0.509255
14	15 (17)	16.190	168	0.135	0.135	0.195531
15	16 (24,27)	16.473	40	0.009	0.009	0.658608
16	17 (16,32)	16.748	355	0.143	0.143	0.392257
17	19 (23,34,54)	17.196				
18	20 (29)	17.373				
19	21 (26)	17.508	79	0.026	0.026	0.473617
20	22 (25)	17.574	46	0.012	0.012	0.612551
21	23 (31)	17.775	642	0.151	0.151	0.670453
22	24 (28,50)	17.824	854	0.193	0.193	0.697306
23	25 (20,21,33,53)	18.174	496	0.145	0.145	0.537784
24	26 (22,51)	18.405	360	0.106	0.106	0.534519
25	27 (45)	18.629	101	0.033	0.033	0.489242
26	28 (36)	18.768				
27	29 (46)	18.890	51	0.015	0.015	0.545204
28	30 (39)	19.029				

**Peak Results**

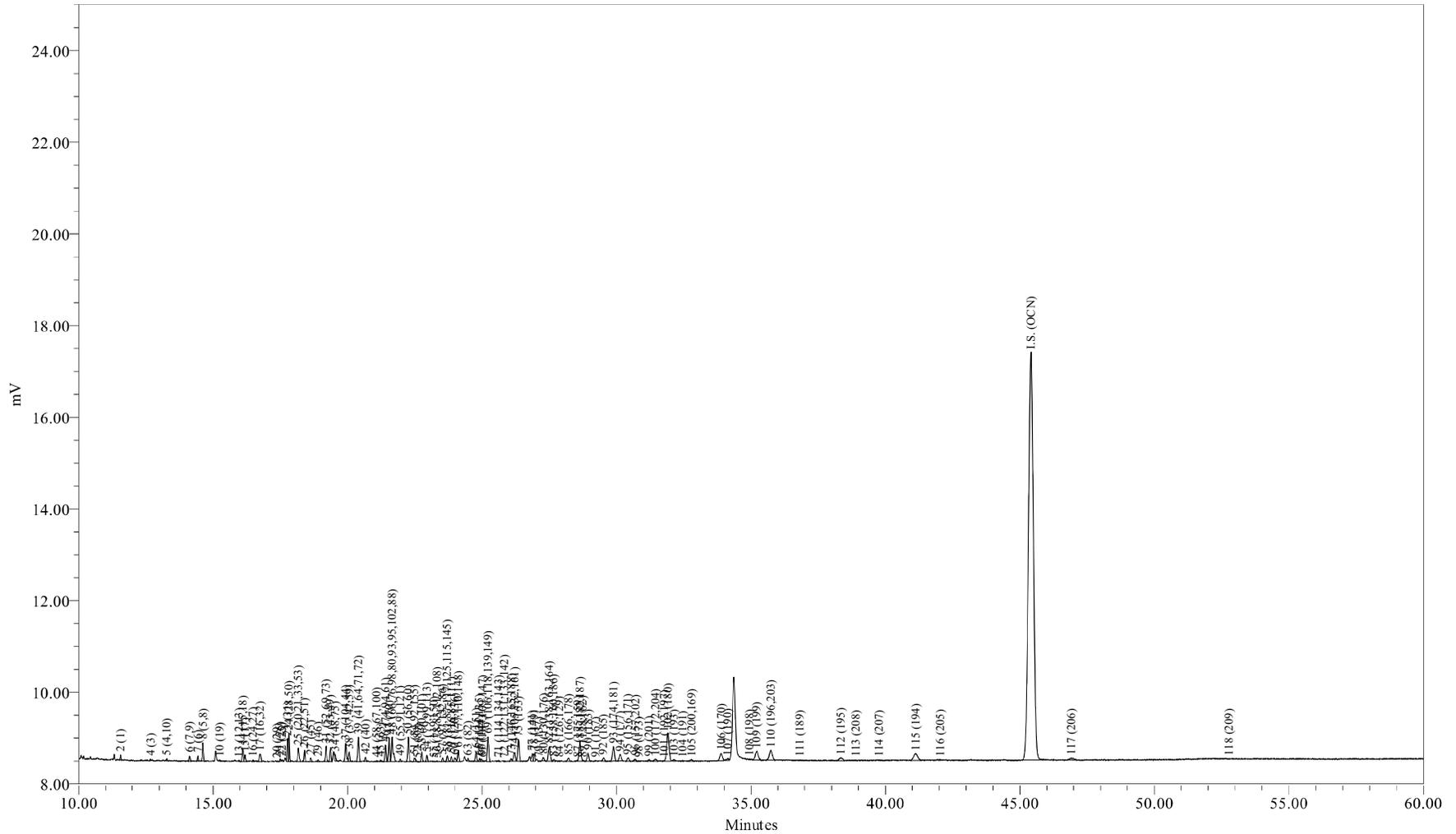
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.199	476	0.174	0.174	0.429412
30	32 (43,49)	19.366	442	0.084	0.084	0.827587
31	33 (38,47)	19.486	268	0.037	0.037	1.155859
32	34 (48,75)	19.528	216	0.037	0.037	0.931970
33	35 (62,65)	19.679				
34	36 (35)	19.759				
35	37 (104,44)	19.934	677	0.157	0.157	0.677929
36	38 (37,42,59)	20.059	327	0.095	0.095	0.540900
37	39 (41,64,71,72)	20.405	809	0.150	0.150	0.849862
38	41 (68,96)	20.572				
39	42 (40)	20.676	133	0.034	0.034	0.607076
40	43 (57,103)	20.925				
41	44 (58,67,100)	21.089				
42	45 (63)	21.245	47	0.008	0.008	0.968206
43	46 (74,94,61)	21.411	574	0.069	0.069	1.301996
44	47 (70)	21.545	819	0.124	0.124	1.037323
45	48 (66,76,98,80,93,95,102,88)	21.659	1198	0.263	0.263	0.716609
46	49 (55,91,121)	21.958	99	0.019	0.019	0.833499
47	50 (56,60)	22.262	859	0.128	0.128	1.056863
48	51 (84,92,155)	22.513	147	0.066	0.066	0.352568
49	52 (89)	22.615				
50	53 (90,101)	22.760	315	0.066	0.066	0.754445
51	54 (79,99,113)	22.944	209	0.027	0.027	1.215887
52	55 (119,150)	23.234				
53	56 (78,83,112,108)	23.327				
54	57 (97,152,86)	23.537	136	0.020	0.020	1.047645
55	58 (81,87,117,125,115,145)	23.709	249	0.042	0.042	0.924048
56	59 (116,85,111)	23.868	172	0.026	0.026	1.056556
57	60 (120,136)	23.991	189	0.027	0.027	1.083997
58	61 (77,110,148)	24.113	424	0.078	0.078	0.856854
59	62 (154)	24.394				
60	63 (82)	24.494	78	0.016	0.016	0.767312
61	64 (151)	24.776	374	0.062	0.062	0.947097
62	65 (124,135)	24.904	99	0.011	0.011	1.469912
63	66 (144)	24.978	60	0.022	0.022	0.429047
64	67 (107,109,147)	25.041				
65	68 (123)	25.129				
66	69 (106,118,139,149)	25.224	987	0.146	0.146	1.062540
67	70 (140)	25.334				
68	71 (114,134,143)	25.619	45	0.007	0.007	0.955047
69	72 (122,131,133,142)	25.817				
70	73 (146,165,188)	26.082	77	0.014	0.014	0.845478

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.202	361	0.050	0.050	1.146729
72	75 (153)	26.355	866	0.108	0.108	1.266991
73	76 (127,168,184)	26.465				
74	77 (141)	26.865	286	0.062	0.062	0.725337
75	78 (179)	26.935	259	0.053	0.053	0.762881
76	79 (137)	27.128				
77	80 (130,176)	27.279	128	0.009	0.009	2.126652
78	82 (138,163,164)	27.508	757	0.099	0.099	1.207628
79	83 (158,160,186)	27.686	74	0.009	0.009	1.269474
80	84 (126,129)	27.875				
81	85 (166,178)	28.217	171	0.040	0.040	0.670849
82	87 (175,159)	28.508				
83	88 (182,187)	28.634	989	0.132	0.132	1.182546
84	89 (128,162)	28.763				
85	90 (183)	28.929	408	0.062	0.062	1.033866
86	91 (167)	29.194				
87	92 (185)	29.518	131	0.017	0.017	1.200077
88	93 (174,181)	29.884	852	0.117	0.117	1.146693
89	94 (177)	30.137	342	0.062	0.062	0.866524
90	95 (156,171)	30.446	199	0.029	0.029	1.083934
91	96 (157,202)	30.700	97	0.002	0.002	6.322028
92	98 (173)	30.848				
93	99 (201)	31.189	80	0.014	0.014	0.887410
94	100 (172,204)	31.429	142	0.020	0.020	1.089679
95	101 (192,197)	31.713				
96	102 (180)	31.903	1914	0.223	0.223	1.351556
97	103 (193)	32.144	74	0.015	0.015	0.754223
98	104 (191)	32.452				
99	105 (200,169)	32.777	105	0.016	0.016	1.051451
100	106 (170)	33.880	645	0.047	0.047	2.171353
101	107 (190)	34.140	114	0.015	0.015	1.166873
102	108 (198)	34.980				
103	109 (199)	35.220	735	0.154	0.154	0.753773
104	110 (196,203)	35.733	850	0.157	0.157	0.850938
105	111 (189)	36.858				
106	112 (195)	38.302	255	0.020	0.020	1.984911
107	113 (208)	38.853				
108	114 (207)	39.764				
109	115 (194)	41.105	748	0.066	0.066	1.788471
110	116 (205)	41.995	31	0.004	0.004	1.220529
111	I.S. (OCN)	45.408	115508	18.180	18.180	6353.581306
112	117 (206)	46.902	229	0.025	0.025	1.453446

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.762				



Sample Name: ICAL0519B  
Sample ID: ICAL 12.5 ng/mL  
Date Acquired: 5/20/2009 4:07:16 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID:

Sample Name: ICAL0519B

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
Phone: (518) 346-4592 Fax: (518) 381-6055  
www.nealab.com

Sample Name:	ICAL0519B	Sample Amount:	1
Sample ID:	ICAL 12.5 ng/mL	Dilution:	1
Date Acquired:	5/20/2009 4:07:16 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	5/20/2009 11:56:23 PM EDT
Sample Set Name:	GC24_CC_051909	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_051909	Current Date:	5/21/2009
Run Time:	60.0 Minutes	Current Time:	6:59:44 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.566	195	0.877	0.877	0.035623
2	3 (2)	12.578				
3	4 (3)	12.676	48	0.512	0.512	0.014948
4	5 (4,10)	13.278	123	0.249	0.249	0.079209
5	6 (7,9)	14.124	307	0.088	0.088	0.562511
6	7 (6)	14.437	259	0.139	0.139	0.299401
7	8 (5,8)	14.622	1001	1.023	1.023	0.157068
8	9 (14)	15.175				
9	10 (19)	15.249	41	0.020	0.020	0.323895
10	11 (30)	15.717				
11	12 (11)	15.777				
12	13 (12,13)	15.970	38	0.020	0.020	0.311469
13	14 (15,18)	16.105	811	0.270	0.270	0.481604
14	15 (17)	16.192	390	0.270	0.270	0.231583
15	16 (24,27)	16.489	85	0.019	0.019	0.720465
16	17 (16,32)	16.746	686	0.285	0.285	0.386268
17	19 (23,34,54)	17.196				
18	20 (29)	17.376	17	0.004	0.004	0.689968
19	21 (26)	17.496	144	0.053	0.053	0.438938
20	22 (25)	17.565	78	0.023	0.023	0.535220
21	23 (31)	17.773	1281	0.301	0.301	0.682429
22	24 (28,50)	17.822	1721	0.386	0.386	0.716202
23	25 (20,21,33,53)	18.174	1008	0.290	0.290	0.557426
24	26 (22,51)	18.401	698	0.212	0.212	0.528497
25	27 (45)	18.633	218	0.065	0.065	0.537424
26	28 (36)	18.768				
27	29 (46)	18.904	72	0.029	0.029	0.395815
28	30 (39)	19.029				

**Peak Results**

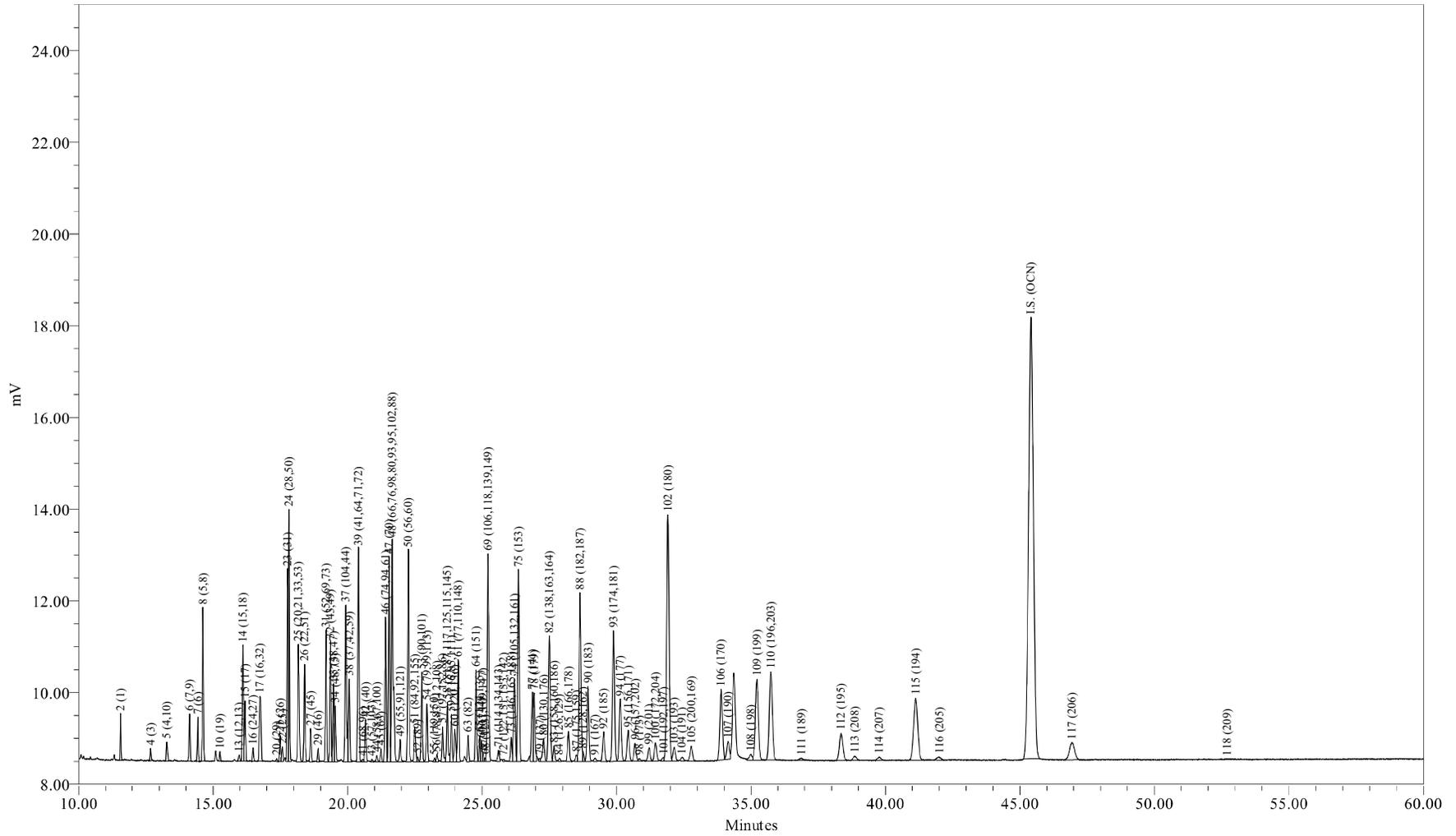
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.200	947	0.349	0.349	0.435869
30	32 (43,49)	19.366	886	0.168	0.168	0.845528
31	33 (38,47)	19.480				
32	34 (48,75)	19.534	400	0.073	0.073	0.877721
33	35 (62,65)	19.679				
34	36 (35)	19.759				
35	37 (104,44)	19.932	1415	0.314	0.314	0.722494
36	38 (37,42,59)	20.059	663	0.190	0.190	0.559923
37	39 (41,64,71,72)	20.403	1642	0.300	0.300	0.879519
38	41 (68,96)	20.572				
39	42 (40)	20.671	238	0.069	0.069	0.556951
40	43 (57,103)	20.925				
41	44 (58,67,100)	21.079	42	0.008	0.008	0.832497
42	45 (63)	21.231	74	0.015	0.015	0.776727
43	46 (74,94,61)	21.410	1120	0.139	0.139	1.294494
44	47 (70)	21.545	1594	0.249	0.249	1.029744
45	48 (66,76,98,80,93,95,102,88)	21.661	2243	0.526	0.526	0.684181
46	49 (55,91,121)	21.960	173	0.037	0.037	0.744363
47	50 (56,60)	22.261	1696	0.256	0.256	1.063910
48	51 (84,92,155)	22.493	264	0.132	0.132	0.322250
49	52 (89)	22.607	32	0.007	0.007	0.712683
50	53 (90,101)	22.759	686	0.132	0.132	0.836571
51	54 (79,99,113)	22.952	433	0.054	0.054	1.285500
52	55 (119,150)	23.218	22	0.002	0.002	1.750404
53	56 (78,83,112,108)	23.333	41	0.011	0.011	0.607228
54	57 (97,152,86)	23.533	252	0.041	0.041	0.988532
55	58 (81,87,117,125,115,145)	23.713	460	0.085	0.085	0.870128
56	59 (116,85,111)	23.863	348	0.051	0.051	1.090907
57	60 (120,136)	23.992	327	0.055	0.055	0.956474
58	61 (77,110,148)	24.115	824	0.156	0.156	0.849647
59	62 (154)	24.394				
60	63 (82)	24.477	181	0.032	0.032	0.905310
61	64 (151)	24.782	714	0.124	0.124	0.922601
62	65 (124,135)	24.907	210	0.021	0.021	1.587430
63	66 (144)	24.978	150	0.044	0.044	0.547757
64	67 (107,109,147)	25.018	44	0.009	0.009	0.746864
65	68 (123)	25.129				
66	69 (106,118,139,149)	25.223	1939	0.292	0.292	1.064306
67	70 (140)	25.334				
68	71 (114,134,143)	25.622	87	0.015	0.015	0.940886
69	72 (122,131,133,142)	25.825	20	0.002	0.002	1.505490
70	73 (146,165,188)	26.081	188	0.029	0.029	1.056948

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.212	809	0.099	0.099	1.310901
72	75 (153)	26.358	1758	0.215	0.215	1.310995
73	76 (127,168,184)	26.465				
74	77 (141)	26.869	604	0.124	0.124	0.780203
75	78 (179)	26.942	639	0.107	0.107	0.960735
76	79 (137)	27.113	19	0.005	0.005	0.552376
77	80 (130,176)	27.289	252	0.019	0.019	2.128086
78	82 (138,163,164)	27.504	1571	0.197	0.197	1.277972
79	83 (158,160,186)	27.664	138	0.018	0.018	1.211091
80	84 (126,129)	27.879	30	0.001	0.001	5.011101
81	85 (166,178)	28.220	281	0.080	0.080	0.560877
82	87 (175,159)	28.556	48	0.015	0.015	0.530807
83	88 (182,187)	28.647	1965	0.263	0.263	1.198884
84	89 (128,162)	28.745	57	0.007	0.007	1.251130
85	90 (183)	28.939	790	0.124	0.124	1.020188
86	91 (167)	29.220	34	0.004	0.004	1.532273
87	92 (185)	29.518	290	0.034	0.034	1.356916
88	93 (174,181)	29.884	1587	0.234	0.234	1.089429
89	94 (177)	30.133	697	0.124	0.124	0.900809
90	95 (156,171)	30.420	340	0.058	0.058	0.944231
91	96 (157,202)	30.704	183	0.005	0.005	6.086169
92	98 (173)	30.831	24	0.003	0.003	1.402184
93	99 (201)	31.210	151	0.029	0.029	0.851869
94	100 (172,204)	31.447	222	0.041	0.041	0.870650
95	101 (192,197)	31.769	42	0.008	0.008	0.839692
96	102 (180)	31.911	3776	0.446	0.446	1.359305
97	103 (193)	32.136	155	0.031	0.031	0.810471
98	104 (191)	32.475	51	0.009	0.009	0.931893
99	105 (200,169)	32.793	185	0.031	0.031	0.946117
100	106 (170)	33.900	1097	0.094	0.094	1.881771
101	107 (190)	34.142	227	0.031	0.031	1.186928
102	108 (198)	34.943	91	0.009	0.009	1.662372
103	109 (199)	35.216	1467	0.307	0.307	0.767017
104	110 (196,203)	35.744	1693	0.314	0.314	0.864528
105	111 (189)	36.822	34	0.003	0.003	1.875780
106	112 (195)	38.351	521	0.040	0.040	2.067736
107	113 (208)	38.898	67	0.018	0.018	0.595678
108	114 (207)	39.758	65	0.007	0.007	1.523566
109	115 (194)	41.124	1516	0.132	0.132	1.850039
110	116 (205)	42.040	69	0.008	0.008	1.379985
111	I.S. (OCN)	45.412	113259	18.180	18.180	6229.871832
112	117 (206)	46.916	481	0.050	0.050	1.552965

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.774	12	0.001	0.001	2.073059



Sample Name: ICAL0519C  
 Sample ID: ICAL 125 ng/mL  
 Date Acquired: 5/20/2009 5:12:42 AM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_051909  
 LIMS File ID:



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0519C Sample Amount: 1  
 Sample ID: ICAL 125 ng/mL Dilution: 1  
 Date Acquired: 5/20/2009 5:12:42 AM EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 5/20/2009 11:49:30 PM EDT  
 Sample Set Name: GC24\_CC\_051909 User Name: Amy Jo Arndt (AmyJoA)  
 Processing Method: CSGB\_LL1X\_051909 Current Date: 5/21/2009  
 Run Time: 60.0 Minutes Current Time: 6:59:50 AM US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID:

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.567	1868	8.771	8.771	0.032189
2	3 (2)	12.578				
3	4 (3)	12.678	551	5.117	5.117	0.016288
4	5 (4,10)	13.280	1230	2.485	2.485	0.074828
5	6 (7,9)	14.126	2885	0.877	0.877	0.497221
6	7 (6)	14.434	2293	1.389	1.389	0.249550
7	8 (5,8)	14.621	8719	10.233	10.233	0.128791
8	9 (14)	15.175				
9	10 (19)	15.256	518	0.205	0.205	0.382629
10	11 (30)	15.717				
11	12 (11)	15.777				
12	13 (12,13)	15.975	452	0.195	0.195	0.350407
13	14 (15,18)	16.106	7268	2.704	2.704	0.406244
14	15 (17)	16.192	3475	2.704	2.704	0.194232
15	16 (24,27)	16.486	761	0.190	0.190	0.605589
16	17 (16,32)	16.745	6494	2.851	2.851	0.344358
17	19 (23,34,54)	17.196				
18	20 (29)	17.370	168	0.039	0.039	0.654986
19	21 (26)	17.498	1594	0.526	0.526	0.457836
20	22 (25)	17.579	918	0.234	0.234	0.593239
21	23 (31)	17.774	11188	3.014	3.014	0.561191
22	24 (28,50)	17.822	15737	3.857	3.857	0.616725
23	25 (20,21,33,53)	18.175	9197	2.903	2.903	0.478875
24	26 (22,51)	18.403	6396	2.120	2.120	0.456102
25	27 (45)	18.629	2207	0.650	0.650	0.512914
26	28 (36)	18.768				
27	29 (46)	18.908	892	0.292	0.292	0.460900
28	30 (39)	19.029				

**Peak Results**

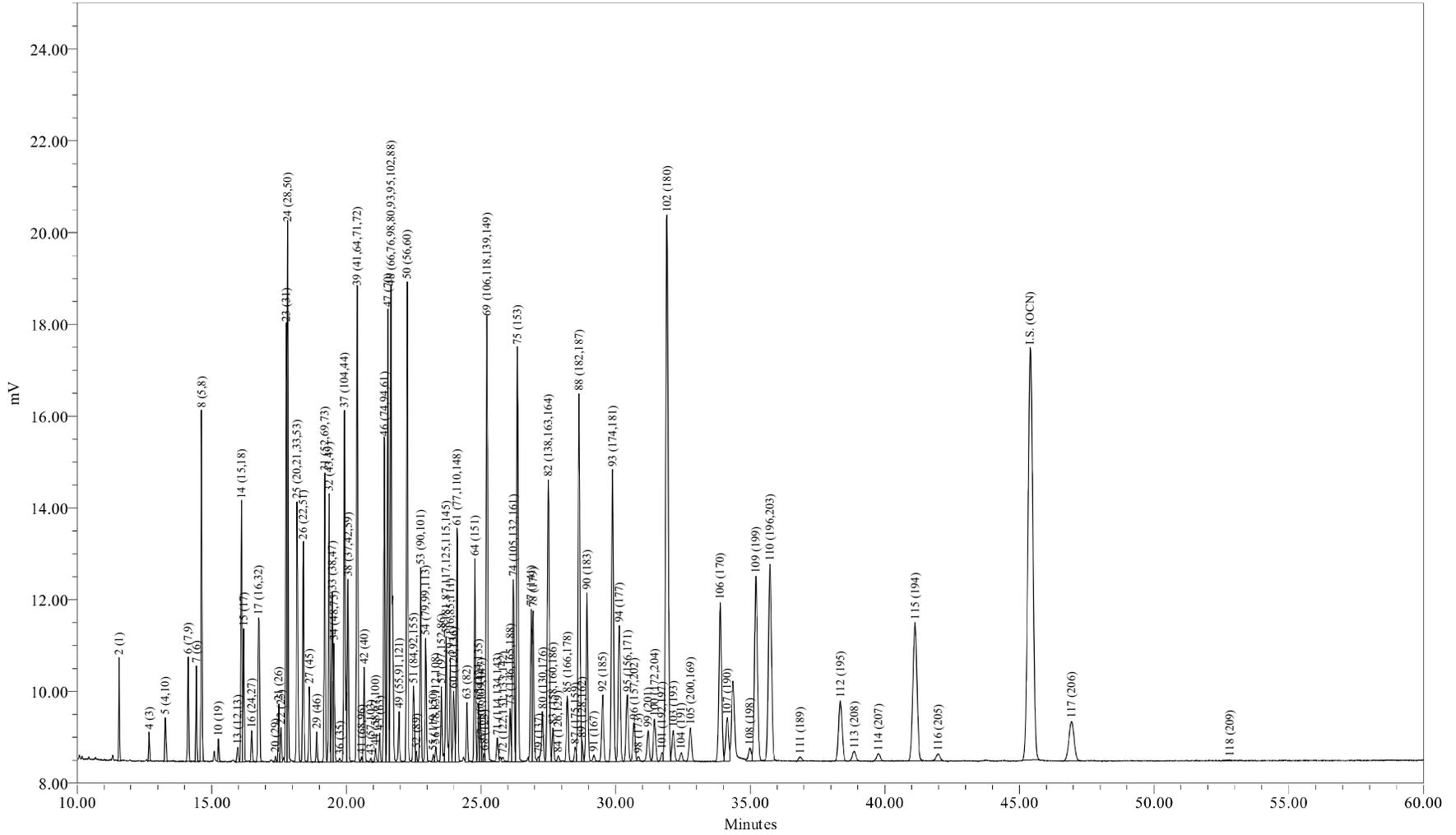
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.199	8679	3.487	3.487	0.376288
30	32 (43,49)	19.366	8292	1.681	1.681	0.745600
31	33 (38,47)	19.478	5282	0.731	0.731	1.092150
32	34 (48,75)	19.542	3771	0.731	0.731	0.779695
33	35 (62,65)	19.679				
34	36 (35)	19.759				
35	37 (104,44)	19.932	12179	3.143	3.143	0.585726
36	38 (37,42,59)	20.061	5923	1.901	1.901	0.471125
37	39 (41,64,71,72)	20.404	14975	2.997	2.997	0.755367
38	41 (68,96)	20.576	169			
39	42 (40)	20.668	2887	0.687	0.687	0.635094
40	43 (57,103)	20.906	216			
41	44 (58,67,100)	21.092	493	0.080	0.080	0.926655
42	45 (63)	21.245	918	0.154	0.154	0.904329
43	46 (74,94,61)	21.412	10165	1.389	1.389	1.106475
44	47 (70)	21.547	14621	2.485	2.485	0.889367
45	48 (66,76,98,80,93,95,102,88)	21.660	20673	5.263	5.263	0.593796
46	49 (55,91,121)	21.957	1743	0.373	0.373	0.706887
47	50 (56,60)	22.261	15150	2.558	2.558	0.895220
48	51 (84,92,155)	22.503	3052	1.316	1.316	0.350620
49	52 (89)	22.615	350	0.073	0.073	0.723003
50	53 (90,101)	22.761	6557	1.316	1.316	0.753347
51	54 (79,99,113)	22.953	4208	0.541	0.541	1.176137
52	55 (119,150)	23.235	258	0.020	0.020	1.899943
53	56 (78,83,112,108)	23.323	509	0.110	0.110	0.702747
54	57 (97,152,86)	23.537	2731	0.409	0.409	1.008825
55	58 (81,87,117,125,115,145)	23.710	4787	0.848	0.848	0.853374
56	59 (116,85,111)	23.862	3472	0.512	0.512	1.025562
57	60 (120,136)	23.990	3072	0.548	0.548	0.847203
58	61 (77,110,148)	24.114	7674	1.557	1.557	0.745139
59	62 (154)	24.394				
60	63 (82)	24.482	1965	0.322	0.322	0.923689
61	64 (151)	24.777	6701	1.243	1.243	0.815272
62	65 (124,135)	24.914	1952	0.212	0.212	1.391560
63	66 (144)	24.974	1555	0.439	0.439	0.536020
64	67 (107,109,147)	25.028	482	0.095	0.095	0.766414
65	68 (123)	25.120	213			
66	69 (106,118,139,149)	25.223	17559	2.924	2.924	0.907822
67	70 (140)	25.334				
68	71 (114,134,143)	25.617	991	0.148	0.148	1.014576
69	72 (122,131,133,142)	25.804	199	0.021	0.021	1.412708
70	73 (146,165,188)	26.088	1858	0.285	0.285	0.985080

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.201	8154	0.990	0.990	1.244623
72	75 (153)	26.358	15871	2.153	2.153	1.114454
73	76 (127,168,184)	26.465				
74	77 (141)	26.874	5863	1.243	1.243	0.713308
75	78 (179)	26.939	5972	1.067	1.067	0.845949
76	79 (137)	27.152	201	0.055	0.055	0.555094
77	80 (130,176)	27.290	2523	0.190	0.190	2.007793
78	82 (138,163,164)	27.506	13803	1.974	1.974	1.057194
79	83 (158,160,186)	27.679	1513	0.183	0.183	1.251996
80	84 (126,129)	27.872	327	0.009	0.009	5.228137
81	85 (166,178)	28.214	3004	0.804	0.804	0.564860
82	87 (175,159)	28.506	605	0.146	0.146	0.625183
83	88 (182,187)	28.647	17699	2.631	2.631	1.016742
84	89 (128,162)	28.753	680	0.073	0.073	1.405506
85	90 (183)	28.941	8127	1.243	1.243	0.988686
86	91 (167)	29.199	378	0.036	0.036	1.595375
87	92 (185)	29.524	3281	0.343	0.343	1.444156
88	93 (174,181)	29.889	15201	2.339	2.339	0.982434
89	94 (177)	30.141	7343	1.243	1.243	0.893274
90	95 (156,171)	30.436	3762	0.578	0.578	0.984763
91	96 (157,202)	30.689	2151	0.048	0.048	6.735016
92	98 (173)	30.850	240	0.028	0.028	1.308403
93	99 (201)	31.215	1675	0.285	0.285	0.887960
94	100 (172,204)	31.449	2382	0.409	0.409	0.879738
95	101 (192,197)	31.752	376	0.080	0.080	0.706563
96	102 (180)	31.909	34247	4.459	4.459	1.161064
97	103 (193)	32.145	1893	0.307	0.307	0.932155
98	104 (191)	32.443	506	0.088	0.088	0.871880
99	105 (200,169)	32.784	2098	0.314	0.314	1.008903
100	106 (170)	33.889	10757	0.936	0.936	1.738049
101	107 (190)	34.148	2674	0.307	0.307	1.316736
102	108 (198)	34.991	1040	0.088	0.088	1.793480
103	109 (199)	35.224	13935	3.070	3.070	0.686178
104	110 (196,203)	35.738	15382	3.143	3.143	0.739808
105	111 (189)	36.875	359	0.029	0.029	1.862511
106	112 (195)	38.348	5395	0.404	0.404	2.017876
107	113 (208)	38.855	790	0.180	0.180	0.661639
108	114 (207)	39.761	640	0.068	0.068	1.423679
109	115 (194)	41.130	14576	1.316	1.316	1.674666
110	116 (205)	42.009	724	0.080	0.080	1.362208
111	I.S. (OCN)	45.407	120264	18.180	18.180	6615.206440
112	117 (206)	46.936	4996	0.497	0.497	1.519662

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.700	124	0.009	0.009	2.108532



Sample Name: ICAL0519D  
 Sample ID: ICAL 314 ng/mL  
 Date Acquired: 5/20/2009 6:18:07 AM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_051909  
 LIMS File ID:

Sample Name: ICAL0519D

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
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Sample Name: ICAL0519D Sample Amount: 1  
 Sample ID: ICAL 314 ng/mL Dilution: 1  
 Date Acquired: 5/20/2009 6:18:07 AM EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 5/20/2009 11:50:20 PM EDT  
 Sample Set Name: GC24\_CC\_051909 User Name: Amy Jo Arndt (AmyJoA)  
 Processing Method: CSGB\_LL1X\_051909 Current Date: 5/21/2009  
 Run Time: 60.0 Minutes Current Time: 6:59:52 AM US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID:

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.567	4191	21.928	21.928	0.030565
2	3 (2)	12.578				
3	4 (3)	12.678	1296	12.792	12.792	0.016197
4	5 (4,10)	13.280	2857	6.213	6.213	0.073546
5	6 (7,9)	14.126	6585	2.193	2.193	0.480311
6	7 (6)	14.434	5086	3.472	3.472	0.234250
7	8 (5,8)	14.621	19708	25.583	25.583	0.123200
8	9 (14)	15.175				
9	10 (19)	15.255	1221	0.512	0.512	0.381492
10	11 (30)	15.717				
11	12 (11)	15.777				
12	13 (12,13)	15.973	1178	0.488	0.488	0.386280
13	14 (15,18)	16.105	16497	6.761	6.761	0.390223
14	15 (17)	16.192	7834	6.761	6.761	0.185310
15	16 (24,27)	16.488	1893	0.475	0.475	0.637637
16	17 (16,32)	16.742	14567	7.127	7.127	0.326894
17	19 (23,34,54)	17.196				
18	20 (29)	17.370	413	0.097	0.097	0.680215
19	21 (26)	17.495	3602	1.316	1.316	0.437865
20	22 (25)	17.577	2105	0.585	0.585	0.575715
21	23 (31)	17.774	24553	7.534	7.534	0.521189
22	24 (28,50)	17.822	35478	9.643	9.643	0.588396
23	25 (20,21,33,53)	18.173	20589	7.258	7.258	0.453664
24	26 (22,51)	18.403	14360	5.300	5.300	0.433349
25	27 (45)	18.630	4933	1.626	1.626	0.485167
26	28 (36)	18.768				
27	29 (46)	18.904	1980	0.731	0.731	0.433191
28	30 (39)	19.029				

**Peak Results**

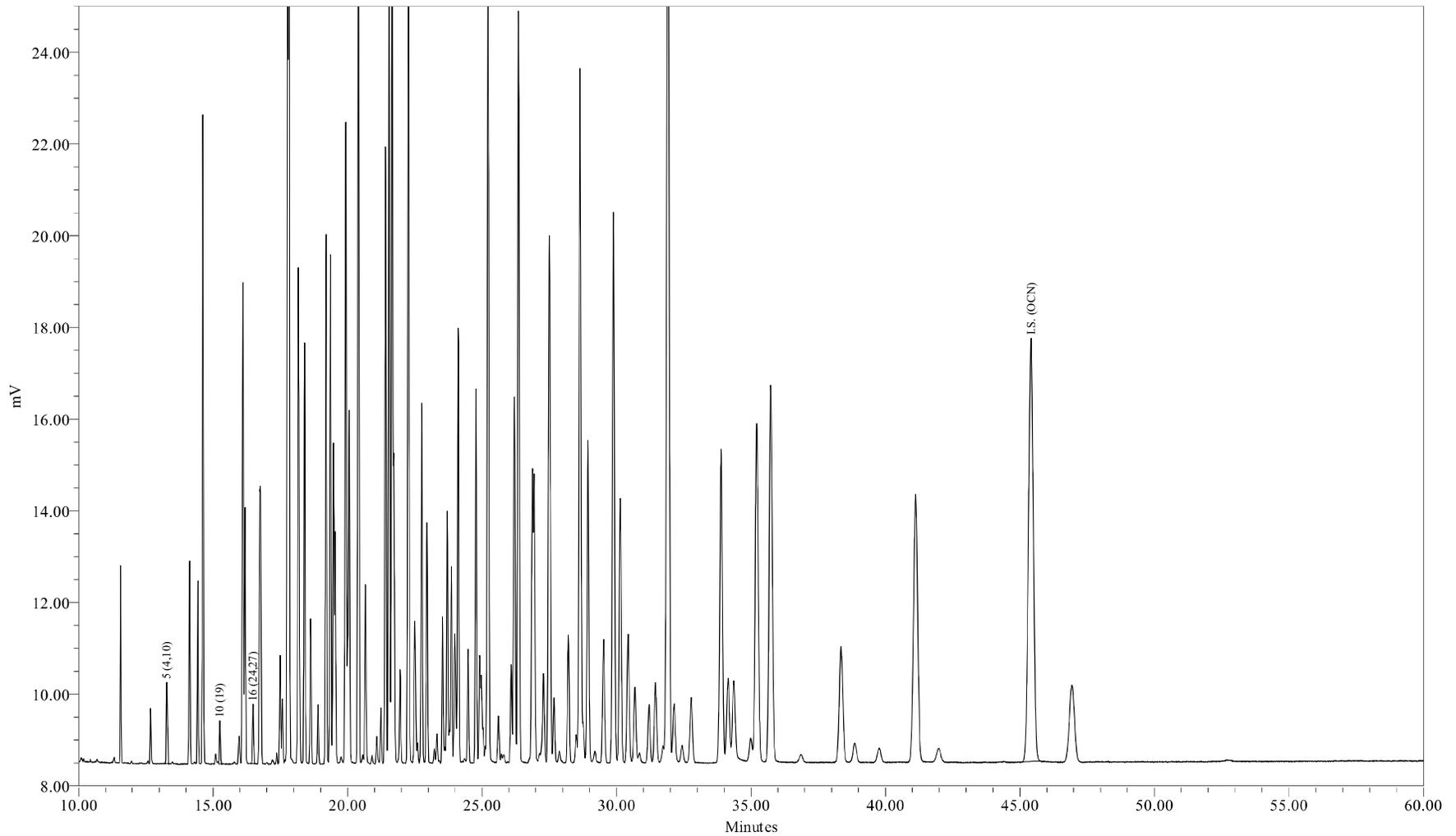
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.200	19162	8.716	8.716	0.351580
30	32 (43,49)	19.364	18492	4.203	4.203	0.703633
31	33 (38,47)	19.478	11282	1.828	1.828	0.987210
32	34 (48,75)	19.541	8157	1.828	1.828	0.713773
33	35 (62,65)	19.679				
34	36 (35)	19.756	294			
35	37 (104,44)	19.932	26925	7.858	7.858	0.547992
36	38 (37,42,59)	20.060	13187	4.751	4.751	0.443883
37	39 (41,64,71,72)	20.404	33232	7.492	7.492	0.709365
38	41 (68,96)	20.570	349			
39	42 (40)	20.667	6360	1.718	1.718	0.592131
40	43 (57,103)	20.913	313			
41	44 (58,67,100)	21.084	1085	0.201	0.201	0.863402
42	45 (63)	21.242	2018	0.384	0.384	0.841010
43	46 (74,94,61)	21.413	22868	3.472	3.472	1.053355
44	47 (70)	21.544	32423	6.213	6.213	0.834610
45	48 (66,76,98,80,93,95,102,88)	21.659	45649	13.157	13.157	0.554887
46	49 (55,91,121)	21.960	3832	0.932	0.932	0.657445
47	50 (56,60)	22.262	34081	6.396	6.396	0.852205
48	51 (84,92,155)	22.502	6648	3.289	3.289	0.323222
49	52 (89)	22.606	740	0.183	0.183	0.647455
50	53 (90,101)	22.760	14214	3.289	3.289	0.691109
51	54 (79,99,113)	22.950	9079	1.352	1.352	1.073776
52	55 (119,150)	23.230	524	0.051	0.051	1.637212
53	56 (78,83,112,108)	23.324	1133	0.274	0.274	0.661522
54	57 (97,152,86)	23.536	6012	1.023	1.023	0.939696
55	58 (81,87,117,125,115,145)	23.707	10446	2.120	2.120	0.788100
56	59 (116,85,111)	23.860	7834	1.279	1.279	0.979317
57	60 (120,136)	23.988	6816	1.370	1.370	0.795367
58	61 (77,110,148)	24.114	16912	3.892	3.892	0.694890
59	62 (154)	24.394				
60	63 (82)	24.479	4397	0.804	0.804	0.874673
61	64 (151)	24.777	14847	3.106	3.106	0.764332
62	65 (124,135)	24.912	4577	0.530	0.530	1.380972
63	66 (144)	24.973	3331	1.097	1.097	0.485862
64	67 (107,109,147)	25.023	955	0.237	0.237	0.643012
65	68 (123)	25.123	503			
66	69 (106,118,139,149)	25.222	38511	7.309	7.309	0.842589
67	70 (140)	25.334				
68	71 (114,134,143)	25.613	2234	0.369	0.369	0.968429
69	72 (122,131,133,142)	25.814	533	0.053	0.053	1.601538
70	73 (146,165,188)	26.084	4217	0.713	0.713	0.946114

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.204	17927	2.476	2.476	1.157982
72	75 (153)	26.357	34927	5.382	5.382	1.037880
73	76 (127,168,184)	26.465				
74	77 (141)	26.870	12659	3.106	3.106	0.651692
75	78 (179)	26.940	13007	2.668	2.668	0.779644
76	79 (137)	27.145	408	0.137	0.137	0.476035
77	80 (130,176)	27.287	5251	0.475	0.475	1.768430
78	82 (138,163,164)	27.507	30605	4.964	4.964	0.986010
79	83 (158,160,186)	27.678	3262	0.457	0.457	1.142354
80	84 (126,129)	27.872	685	0.024	0.024	4.630207
81	85 (166,178)	28.208	6682	2.010	2.010	0.531663
82	87 (175,159)	28.500	1359	0.366	0.366	0.594554
83	88 (182,187)	28.644	39148	6.578	6.578	0.951718
84	89 (128,162)	28.756	1524	0.183	0.183	1.333478
85	90 (183)	28.938	17937	3.106	3.106	0.923452
86	91 (167)	29.194	751	0.090	0.090	1.338721
87	92 (185)	29.524	7370	0.859	0.859	1.372793
88	93 (174,181)	29.886	34042	5.847	5.847	0.931059
89	94 (177)	30.140	16098	3.106	3.106	0.828783
90	95 (156,171)	30.438	8308	1.444	1.444	0.920213
91	96 (157,202)	30.685	4845	0.121	0.121	6.419408
92	98 (173)	30.840	515	0.069	0.069	1.185049
93	99 (201)	31.215	4038	0.713	0.713	0.905992
94	100 (172,204)	31.447	5476	1.023	1.023	0.855942
95	101 (192,197)	31.725	932	0.201	0.201	0.741878
96	102 (180)	31.907	75930	11.147	11.147	1.089379
97	103 (193)	32.145	4266	0.768	0.768	0.888938
98	104 (191)	32.444	1173	0.219	0.219	0.855658
99	105 (200,169)	32.783	4774	0.786	0.786	0.971757
100	106 (170)	33.886	24737	2.339	2.339	1.691392
101	107 (190)	34.148	7014	0.768	0.768	1.461534
102	108 (198)	34.983	2190	0.219	0.219	1.597722
103	109 (199)	35.217	30821	7.675	7.675	0.642230
104	110 (196,203)	35.734	34463	7.858	7.858	0.701422
105	111 (189)	36.857	777	0.073	0.073	1.705027
106	112 (195)	38.356	12195	1.010	1.010	1.930349
107	113 (208)	38.874	1956	0.451	0.451	0.693306
108	114 (207)	39.756	1452	0.170	0.170	1.366176
109	115 (194)	41.125	32053	3.289	3.289	1.558477
110	116 (205)	41.989	1653	0.201	0.201	1.314935
111	I.S. (OCN)	45.397	113677	18.180	18.180	6252.849632
112	117 (206)	46.934	11633	1.242	1.242	1.497507

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.810	252	0.022	0.022	1.814449



Sample Name: ICA0519E  
Sample ID: ICA0519E 627 ng/mL  
Date Acquired: 5/20/2009 7:23:30 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID:

Sample Name: ICA0519E

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0519E Sample Amount: 1  
 Sample ID: ICAL 627 ng/mL Dilution: 1  
 Date Acquired: 5/20/2009 7:23:30 AM EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 5/20/2009 11:50:16 PM EDT  
 Sample Set Name: GC24\_CC\_051909 User Name: Amy Jo Arndt (AmyJoA)  
 Processing Method: CSGB\_LL1X\_051909 Current Date: 5/21/2009  
 Run Time: 60.0 Minutes Current Time: 6:59:57 AM US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID:

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.568				
2	3 (2)	12.578				
3	4 (3)	12.679				
4	5 (4,10)	13.280	5447	12.426	12.426	0.068985
5	6 (7,9)	14.129				
6	7 (6)	14.436				
7	8 (5,8)	14.623				
8	9 (14)	15.175				
9	10 (19)	15.255	2431	1.024	1.024	0.373668
10	11 (30)	15.717				
11	12 (11)	15.777				
12	13 (12,13)	15.977				
13	14 (15,18)	16.108				
14	15 (17)	16.194				
15	16 (24,27)	16.487	3616	0.950	0.950	0.599053
16	17 (16,32)	16.754				
17	19 (23,34,54)	17.196				
18	20 (29)	17.373				
19	21 (26)	17.496				
20	22 (25)	17.579				
21	23 (31)	17.778				
22	24 (28,50)	17.823				
23	25 (20,21,33,53)	18.175				
24	26 (22,51)	18.406				
25	27 (45)	18.632				
26	28 (36)	18.768				
27	29 (46)	18.906				
28	30 (39)	19.029				

**Peak Results**

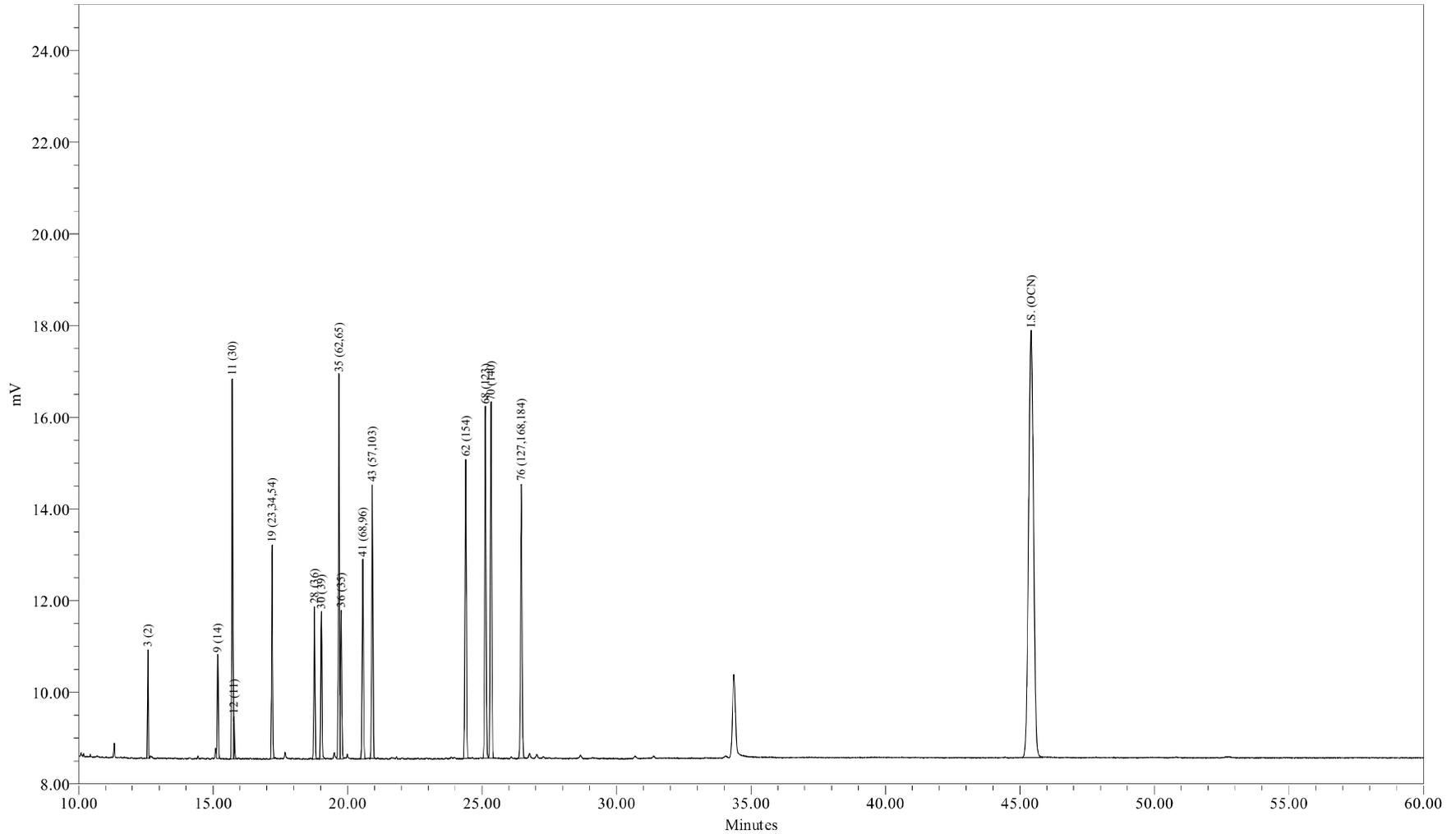
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.201				
30	32 (43,49)	19.368				
31	33 (38,47)	19.480				
32	34 (48,75)	19.543				
33	35 (62,65)	19.679				
34	36 (35)	19.759				
35	37 (104,44)	19.932				
36	38 (37,42,59)	20.061				
37	39 (41,64,71,72)	20.407				
38	41 (68,96)	20.572				
39	42 (40)	20.667				
40	43 (57,103)	20.925				
41	44 (58,67,100)	21.089				
42	45 (63)	21.245				
43	46 (74,94,61)	21.414				
44	47 (70)	21.549				
45	48 (66,76,98,80,93,95,102,88)	21.662				
46	49 (55,91,121)	21.962				
47	50 (56,60)	22.264				
48	51 (84,92,155)	22.507				
49	52 (89)	22.615				
50	53 (90,101)	22.763				
51	54 (79,99,113)	22.955				
52	55 (119,150)	23.234				
53	56 (78,83,112,108)	23.327				
54	57 (97,152,86)	23.539				
55	58 (81,87,117,125,115,145)	23.710				
56	59 (116,85,111)	23.862				
57	60 (120,136)	23.992				
58	61 (77,110,148)	24.116				
59	62 (154)	24.394				
60	63 (82)	24.484				
61	64 (151)	24.779				
62	65 (124,135)	24.915				
63	66 (144)	24.980				
64	67 (107,109,147)	25.041				
65	68 (123)	25.129				
66	69 (106,118,139,149)	25.223				
67	70 (140)	25.334				
68	71 (114,134,143)	25.616				
69	72 (122,131,133,142)	25.817				
70	73 (146,165,188)	26.085				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.201				
72	75 (153)	26.362				
73	76 (127,168,184)	26.465				
74	77 (141)	26.872				
75	78 (179)	26.942				
76	79 (137)	27.128				
77	80 (130,176)	27.291				
78	82 (138,163,164)	27.508				
79	83 (158,160,186)	27.680				
80	84 (126,129)	27.875				
81	85 (166,178)	28.213				
82	87 (175,159)	28.508				
83	88 (182,187)	28.651				
84	89 (128,162)	28.763				
85	90 (183)	28.945				
86	91 (167)	29.194				
87	92 (185)	29.528				
88	93 (174,181)	29.891				
89	94 (177)	30.147				
90	95 (156,171)	30.432				
91	96 (157,202)	30.692				
92	98 (173)	30.848				
93	99 (201)	31.208				
94	100 (172,204)	31.447				
95	101 (192,197)	31.713				
96	102 (180)	31.903				
97	103 (193)	32.145				
98	104 (191)	32.452				
99	105 (200,169)	32.780				
100	106 (170)	33.895				
101	107 (190)	34.151				
102	108 (198)	34.980				
103	109 (199)	35.220				
104	110 (196,203)	35.744				
105	111 (189)	36.858				
106	112 (195)	38.350				
107	113 (208)	38.853				
108	114 (207)	39.764				
109	115 (194)	41.123				
110	116 (205)	41.979				
111	I.S. (OCN)	45.417	115526	18.180	18.180	6354.547362
112	117 (206)	46.935				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.762				



Sample Name: SC0519A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 5/20/2009 9:34:29 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID:

Sample Name: SC0519A

1 of 1



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: SC0519A Sample Amount: 1  
 Sample ID: SUP CONG STD 200/5 ng/mL Dilution: 1  
 Date Acquired: 5/20/2009 9:34:29 AM EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 5/20/2009 11:49:44 PM EDT  
 Sample Set Name: GC24\_CC\_051909 User Name: Amy Jo Arndt (AmyJoA)  
 Processing Method: CSGB\_LL1X\_051909 Current Date: 5/21/2009  
 Run Time: 60.0 Minutes Current Time: 7:00:03 AM US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID:

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.568				
2	3 (2)	12.578	4860	200.000	200.000	0.003728
3	4 (3)	12.679				
4	5 (4,10)	13.283				
5	6 (7,9)	14.129				
6	7 (6)	14.436				
7	8 (5,8)	14.623				
8	9 (14)	15.175	5893	5.000	5.000	0.180830
9	10 (19)	15.258				
10	11 (30)	15.716	21697	5.000	5.000	0.665724
11	12 (11)	15.777	2077	5.000	5.000	0.063731
12	13 (12,13)	15.977				
13	14 (15,18)	16.108				
14	15 (17)	16.194				
15	16 (24,27)	16.490				
16	17 (16,32)	16.754				
17	19 (23,34,54)	17.195	13043	5.000	5.000	0.400202
18	20 (29)	17.373				
19	21 (26)	17.496				
20	22 (25)	17.579				
21	23 (31)	17.778				
22	24 (28,50)	17.823				
23	25 (20,21,33,53)	18.175				
24	26 (22,51)	18.406				
25	27 (45)	18.632				
26	28 (36)	18.767	10120	5.000	5.000	0.310499
27	29 (46)	18.906				
28	30 (39)	19.027	9912	5.000	5.000	0.304119

**Peak Results**

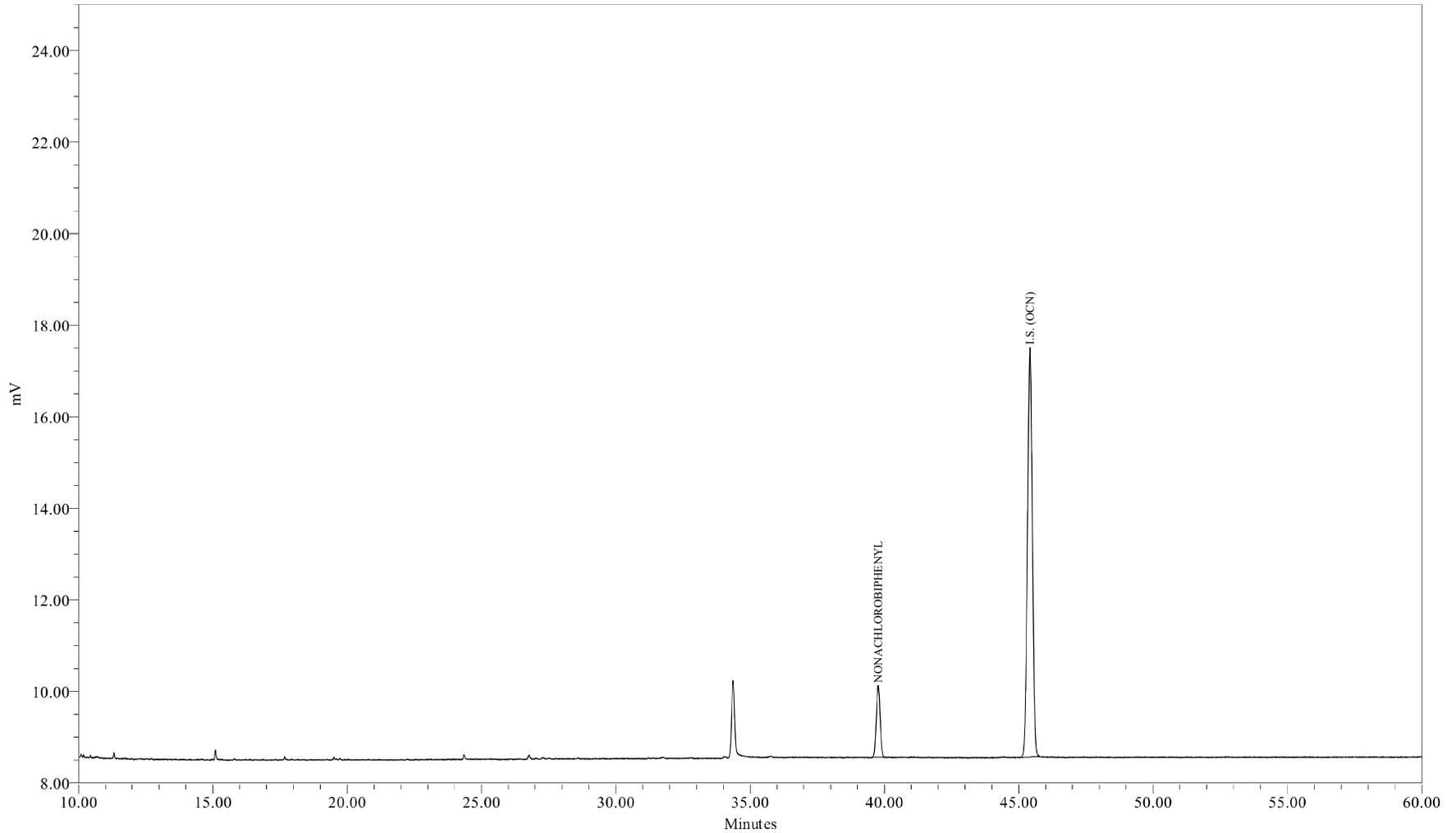
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.201				
30	32 (43,49)	19.368				
31	33 (38,47)	19.480				
32	34 (48,75)	19.543				
33	35 (62,65)	19.680	26011	5.000	5.000	0.798101
34	36 (35)	19.760	9693	5.000	5.000	0.297423
35	37 (104,44)	19.932				
36	38 (37,42,59)	20.061				
37	39 (41,64,71,72)	20.407				
38	41 (68,96)	20.570	13770	5.000	5.000	0.422509
39	42 (40)	20.667				
40	43 (57,103)	20.922	19131	5.000	5.000	0.586988
41	44 (58,67,100)	21.089				
42	45 (63)	21.245				
43	46 (74,94,61)	21.414				
44	47 (70)	21.549				
45	48 (66,76,98,80,93,95,102,88)	21.662				
46	49 (55,91,121)	21.962				
47	50 (56,60)	22.264				
48	51 (84,92,155)	22.507				
49	52 (89)	22.615				
50	53 (90,101)	22.763				
51	54 (79,99,113)	22.955				
52	55 (119,150)	23.234				
53	56 (78,83,112,108)	23.327				
54	57 (97,152,86)	23.539				
55	58 (81,87,117,125,115,145)	23.710				
56	59 (116,85,111)	23.862				
57	60 (120,136)	23.992				
58	61 (77,110,148)	24.116				
59	62 (154)	24.393	22602	5.000	5.000	0.693516
60	63 (82)	24.484				
61	64 (151)	24.779				
62	65 (124,135)	24.915				
63	66 (144)	24.980				
64	67 (107,109,147)	25.041				
65	68 (123)	25.126	26217	5.000	5.000	0.804415
66	69 (106,118,139,149)	25.223				
67	70 (140)	25.336	26620	5.000	5.000	0.816790
68	71 (114,134,143)	25.616				
69	72 (122,131,133,142)	25.817				
70	73 (146,165,188)	26.085				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.201				
72	75 (153)	26.362				
73	76 (127,168,184)	26.462	23190	5.000	5.000	0.711537
74	77 (141)	26.872				
75	78 (179)	26.942				
76	79 (137)	27.128				
77	80 (130,176)	27.291				
78	82 (138,163,164)	27.508				
79	83 (158,160,186)	27.680				
80	84 (126,129)	27.875				
81	85 (166,178)	28.213				
82	87 (175,159)	28.508				
83	88 (182,187)	28.651				
84	89 (128,162)	28.763				
85	90 (183)	28.945				
86	91 (167)	29.194				
87	92 (185)	29.528				
88	93 (174,181)	29.891				
89	94 (177)	30.147				
90	95 (156,171)	30.432				
91	96 (157,202)	30.692				
92	98 (173)	30.848				
93	99 (201)	31.208				
94	100 (172,204)	31.447				
95	101 (192,197)	31.713				
96	102 (180)	31.903				
97	103 (193)	32.145				
98	104 (191)	32.452				
99	105 (200,169)	32.780				
100	106 (170)	33.895				
101	107 (190)	34.151				
102	108 (198)	34.980				
103	109 (199)	35.220				
104	110 (196,203)	35.744				
105	111 (189)	36.858				
106	112 (195)	38.350				
107	113 (208)	38.853				
108	114 (207)	39.764				
109	115 (194)	41.123				
110	116 (205)	41.979				
111	I.S. (OCN)	45.416	118501	18.180	18.180	6518.215015
112	117 (206)	46.935				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.762				



Sample Name: SS0519A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 5/20/2009 10:39:55 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_2\_051909  
LIMS File ID:

Sample Name: SS0519A

1 of 1



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Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: SS0519A Sample Amount: 1  
Sample ID: Surr Std (207) 2.0 ng/mL Dilution: 1  
Date Acquired: 5/20/2009 10:39:55 AM EDT Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 5/21/2009 6:50:14 AM EDT  
Sample Set Name: GC24\_CC\_051909 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: CSGB\_S\_2\_051909 Current Date: 5/21/2009  
Run Time: 60.0 Minutes Current Time: 7:11:50 AM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID:

**Peak Results**

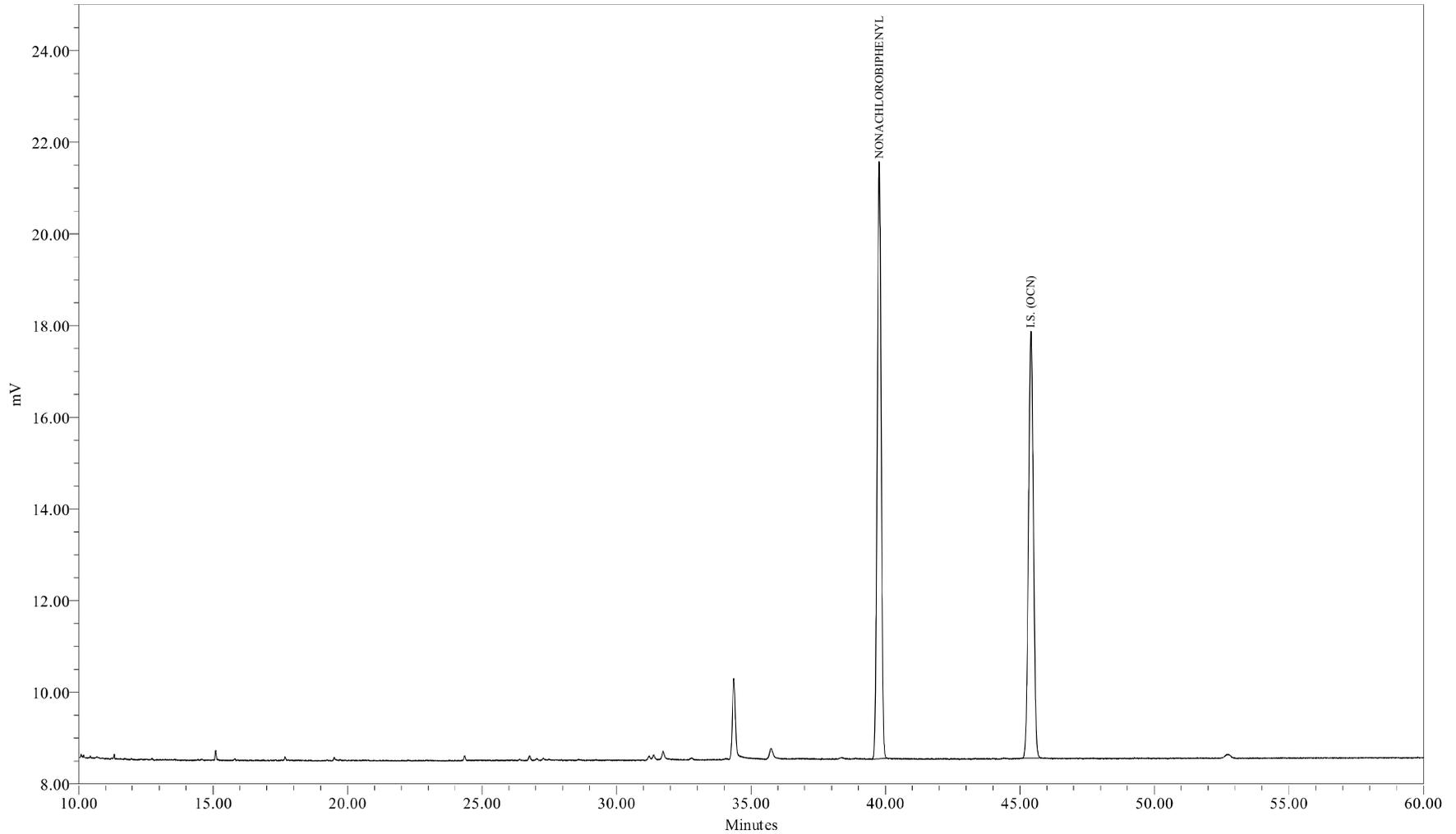
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	39.769	15501	2.000	2.000	1.248187
2	I.S. (OCN)	45.419	112884	18.180	18.180	6209.233752



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Sample Name: SS0519B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 5/20/2009 11:45:24 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_20\_051909  
LIMS File ID:

Sample Name: SS0519B

1 of 1



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Sample Name:	SS0519B	Sample Amount:	1
Sample ID:	Surr Std (207) 20.0 ng/mL	Dilution:	1
Date Acquired:	5/20/2009 11:45:24 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	5/21/2009 6:51:57 AM EDT
Sample Set Name:	GC24_CC_051909	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_S_20_051909	Current Date:	5/21/2009
Run Time:	60.0 Minutes	Current Time:	7:12:00 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	

#### Peak Results

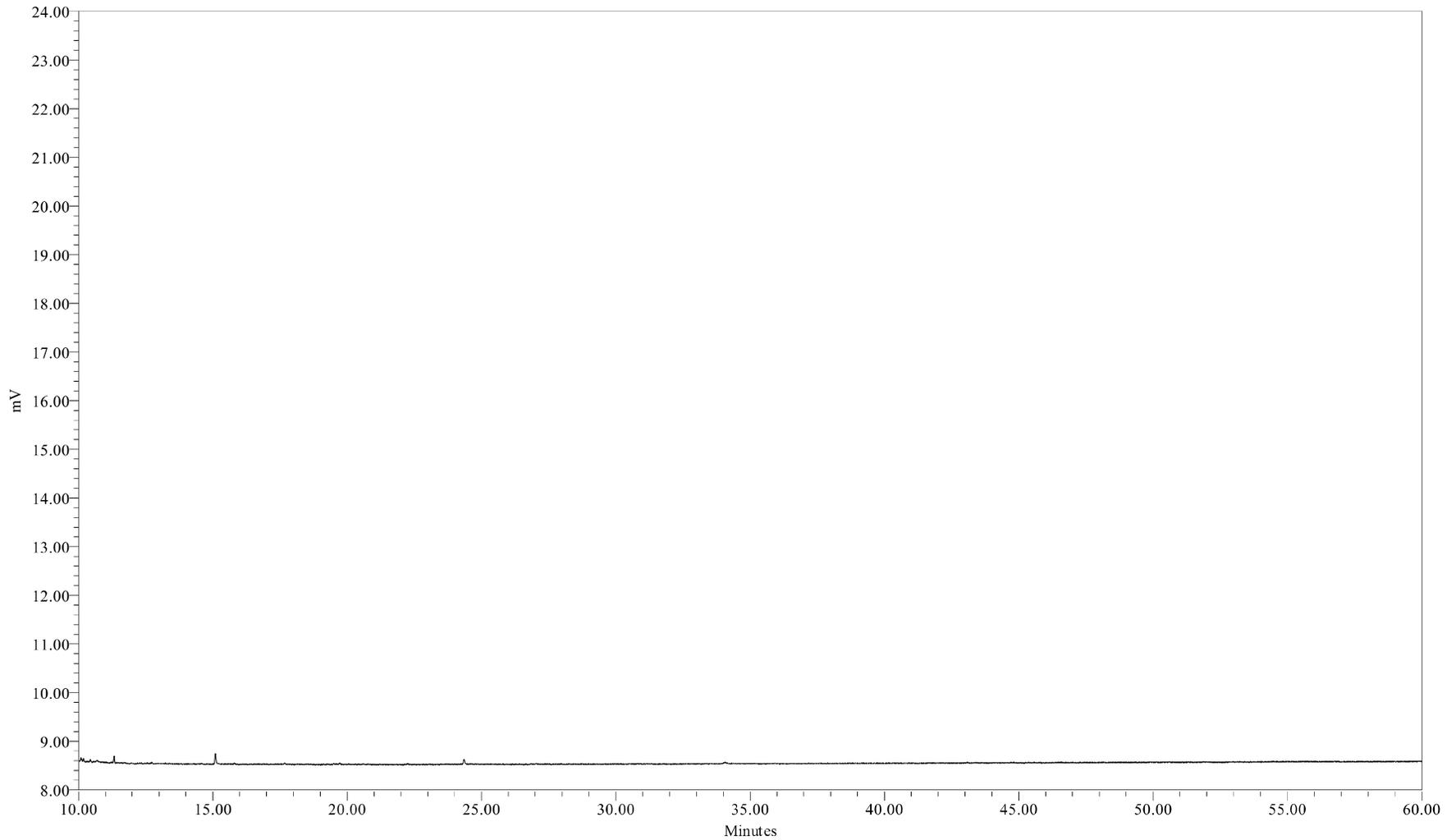
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	39.770	134078	20.000	20.000	1.033917
2	I.S. (OCN)	45.403	117879	18.180	18.180	6483.992463



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Sample Name: 090519B06  
Sample ID: HEXANE BLANK  
Date Acquired: 5/20/2009 12:51:06 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID:

Sample Name: 090519B06

1 of 1

**Northeast Analytical, Inc.**  
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: Northeast Analytical, Inc.                      SGD NO: 09050314  
ELAP ID No: 11078  
INSTRUMENT ID: GC24  
GC COLUMN: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

**Continuing Calibration Standard CCCS0531A**

Lab File ID:	<u>GC24-73-2</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>05/31/2009</u>	Calculated Amount:	<u>115 ng/ml</u>
Time:	<u>10:22:41</u>	OCN (I.S.) Peak Area:	<u>137765</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>119</u>

**Continuing Calibration Standard CCCS0531B**

Lab File ID:	<u>GC24-73-12</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>05/31/2009</u>	Calculated Amount:	<u>117 ng/ml</u>
Time:	<u>21:34:42</u>	OCN (I.S.) Peak Area:	<u>142026</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>123</u>

**Continuing Calibration Standard CCCS0531C**

Lab File ID:	<u>GC24-73-17</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>06/01/2009</u>	Calculated Amount:	<u>117 ng/ml</u>
Time:	<u>03:01:32</u>	OCN (I.S.) Peak Area:	<u>134048</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>116</u>



**Northeast Analytical, Inc.**  
 PCB CONTINUING CALIBRATION SUMMARY  
 122 ng/mL LOW LEVEL STANDARD

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0531A File ID: GC24-73-2		Continuing Calibration CCCS0531B File ID: GC24-73-12		Continuing Calibration CCCS0531C File ID: GC24-73-17	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.17	-13.0	1.19	-12.0	1.17	-13.7
37 (104,44)	3.06	+/-15	2.98	-2.72	3.03	-1.11	2.98	-2.60
47 (70)	2.42	+/-15	2.23	-8.03	2.25	-6.86	2.23	-7.93
93 (174,181)	2.28	+/-15	2.14	-6.07	2.14	-5.98	2.13	-6.76
102 (180)	4.35	+/-15	4.03	-7.43	4.03	-7.41	4.01	-7.93
116 (205)	0.0788	+/-30	0.0736	-6.55	0.0679	-13.8	0.0634	-19.6
Total CCCS Conc.	122	+/-15	115	-6.09	117	-4.07	117	-4.03

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0531A	1422 uV	711 uV	369 uV
CCCS0531B	1464 uV	732 uV	384 uV
CCCS0531C	1371 uV	685.5 uV	361 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0531A	1709 uV	569.7 uV	82 uV
CCCS0531B	1742 uV	580.7 uV	98 uV
CCCS0531C	1643 uV	547.7 uV	96 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
 PCB CONTINUING CALIBRATION SUMMARY  
 122 ng/mL LOW LEVEL STANDARD

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0531D File ID: GC24-73-19		Continuing Calibration		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.19	-11.6				
37 (104,44)	3.06	+/-15	2.99	-2.20				
47 (70)	2.42	+/-15	2.23	-7.93				
93 (174,181)	2.28	+/-15	2.14	-6.35				
102 (180)	4.35	+/-15	4.00	-8.02				
116 (205)	0.0788	+/-30	0.0694	-12.0				
Total CCCS Conc.	122	+/-15	117	-4.24				

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0531D	1413 uV	706.5 uV	387 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0531D	1694 uV	564.7 uV	92 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0531A	CCCS0531A File ID: GC24-73-2		CCCS0531B File ID: GC24-73-12		CCCS0531C File ID: GC24-73-17	
			Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
1	2 (1)	+/-0.07	11.57		11.57		11.57	
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.68		12.68		12.68	
4	5 (4,10)	+/-0.07	13.28		13.28		13.28	
5	6 (7,9)	+/-0.07	14.13		14.13		14.13	
6	7 (6)	+/-0.07	14.43		14.43		14.43	
7	8 (5,8)	+/-0.07	14.62		14.62		14.62	
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.25		15.25		15.25	
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	15.97		15.98		15.97	
13	14 (15,18)	+/-0.07	16.11		16.11		16.10	
14	15 (17)	+/-0.07	16.19		16.19		16.19	
15	16 (24,27)	+/-0.07	16.49		16.49		16.48	
16	17 (16,32)	+/-0.07	16.74		16.74		16.74	
17	19 (23,34,54)	+/-0.07	17.18		17.20		17.19	
18	20 (29)	+/-0.07	17.36		17.37		17.36	
19	21 (26)	+/-0.07	17.49		17.49		17.49	
20	22 (25)	+/-0.07	17.58		17.58		17.57	
21	23 (31)	+/-0.07	17.77		17.78		17.77	
22	24 (28,50)	+/-0.07	17.82		17.82		17.82	
23	25 (20,21,33,53)	+/-0.07	18.17		18.17		18.17	
24	26 (22,51)	+/-0.07	18.40		18.40		18.40	
25	27 (45)	+/-0.07	18.63		18.63		18.63	
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	18.90		18.90		18.90	
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.20		19.20		19.20	
30	32 (43,49)	+/-0.07	19.36		19.36		19.36	
31	33 (38,47)	+/-0.07	19.48		19.48		19.47	
32	34 (48,75)	+/-0.07	19.54		19.54		19.54	
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	19.76		19.73		19.73	
35	37 (104,44)	+/-0.07	19.93		19.93		19.93	
36	38 (37,42,59)	+/-0.07	20.06		20.06		20.06	
37	39 (41,64,71,72)	+/-0.07	20.40		20.40		20.40	
38	41 (68,96)	+/-0.07	20.57		20.57		20.57	
39	42 (40)	+/-0.07	20.67		20.67		20.66	
40	43 (57,103)	+/-0.07	20.91		20.91		20.91	
41	44 (58,67,100)	+/-0.07	21.08		21.09		21.08	
42	45 (63)	+/-0.07	21.24		21.24		21.24	
43	46 (74,94,61)	+/-0.07	21.41		21.41		21.41	
44	47 (70)	+/-0.07	21.55		21.54		21.54	
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.66		21.66		21.66	
46	49 (55,91,121)	+/-0.07	21.96		21.96		21.96	
47	50 (56,60)	+/-0.07	22.26		22.26		22.26	
48	51 (84,92,155)	+/-0.07	22.50		22.50		22.50	
49	52 (89)	+/-0.07	22.60		22.61		22.60	
50	53 (90,101)	+/-0.07	22.76		22.76		22.76	
51	54 (79,99,113)	+/-0.07	22.95		22.95		22.95	
52	55 (119,150)	+/-0.07	23.22		23.23		23.23	
53	56 (78,83,112,108)	+/-0.07	23.32		23.32		23.32	
54	57 (97,152,86)	+/-0.07	23.53		23.54		23.53	
55	58 (81,87,117,125,115,145)	+/-0.07	23.71		23.71		23.71	
56	59 (116,85,111)	+/-0.07	23.86		23.86		23.86	

Nea Lims Version : 4.4.4.1

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0531A	CCCS0531A File ID: GC24-73-2		CCCS0531B File ID: GC24-73-12		CCCS0531C File ID: GC24-73-17	
			Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
57	60 (120,136)	+/-0.07	23.99		23.99		23.99	
58	61 (77,110,148)	+/-0.07	24.11		24.11		24.11	
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.48		24.48		24.48	
61	64 (151)	+/-0.07	24.78		24.78		24.77	
62	65 (124,135)	+/-0.07	24.91		24.91		24.91	
63	66 (144)	+/-0.07	24.97		24.97		24.97	
64	67 (107,109,147)	+/-0.07	25.03		25.02		25.03	
65	68 (123)	+/-0.07	25.13		25.12		25.12	
66	69 (106,118,139,149)	+/-0.07	25.22		25.22		25.22	
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.61		25.61		25.61	
69	72 (122,131,133,142)	+/-0.07	25.82		25.82		25.80	
70	73 (146,165,188)	+/-0.07	26.09		26.08		26.08	
71	74 (105,132,161)	+/-0.07	26.21		26.21		26.20	
72	75 (153)	+/-0.07	26.36		26.36		26.35	
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	26.87		26.87		26.87	
75	78 (179)	+/-0.07	26.94		26.94		26.93	
76	79 (137)	+/-0.07	27.14		27.16		27.13	
77	80 (130,176)	+/-0.07	27.29		27.29		27.28	
78	82 (138,163,164)	+/-0.07	27.50		27.50		27.50	
79	83 (158,160,186)	+/-0.07	27.68		27.68		27.67	
80	84 (126,129)	+/-0.07	27.88		27.88		27.87	
81	85 (166,178)	+/-0.07	28.21		28.21		28.21	
82	87 (175,159)	+/-0.07	28.50		28.49		28.50	
83	88 (182,187)	+/-0.07	28.65		28.64		28.64	
84	89 (128,162)	+/-0.07	28.74		28.75		28.75	
85	90 (183)	+/-0.07	28.94		28.94		28.94	
86	91 (167)	+/-0.07	29.20		29.20		29.19	
87	92 (185)	+/-0.07	29.52		29.52		29.52	
88	93 (174,181)	+/-0.07	29.88		29.88		29.88	
89	94 (177)	+/-0.07	30.14		30.14		30.14	
90	95 (156,171)	+/-0.07	30.43		30.43		30.43	
91	96 (157,202)	+/-0.07	30.68		30.69		30.68	
92	98 (173)	+/-0.07	30.84		30.86		30.84	
93	99 (201)	+/-0.07	31.21		31.21		31.20	
94	100 (172,204)	+/-0.07	31.45		31.44		31.44	
95	101 (192,197)	+/-0.07	31.74		31.74		31.72	
96	102 (180)	+/-0.07	31.91		31.91		31.90	
97	103 (193)	+/-0.07	32.15		32.15		32.15	
98	104 (191)	+/-0.07	32.43		32.43		32.44	
99	105 (200,169)	+/-0.07	32.78		32.78		32.78	
100	106 (170)	+/-0.07	33.89		33.89		33.88	
101	107 (190)	+/-0.07	34.15		34.14		34.15	
102	108 (198)	+/-0.07	34.99		34.98		35.00	
103	109 (199)	+/-0.07	35.21		35.22		35.21	
104	110 (196,203)	+/-0.07	35.73		35.74		35.73	
105	111 (189)	+/-0.07	36.86		36.88		36.85	
106	112 (195)	+/-0.07	38.35		38.35		38.34	
107	113 (208)	+/-0.07	38.86		38.87		38.85	
108	114 (207)	+/-0.07	39.77		39.76		39.75	
109	115 (194)	+/-0.07	41.12		41.12		41.11	
110	116 (205)	+/-0.07	41.99		41.96		41.98	
111	117 (206)	+/-0.07	46.92		46.93		46.92	
112	118 (209)	+/-0.07	52.77		52.76		52.74	

Nea Lims Version : 4.4.4.1

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0531A	CCCS0531D File ID: GC24-73-19		Retention Time	Flag	Retention Time	Flag
			Retention Time	Flag				
1	2 (1)	+/-0.07	11.57					
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.68					
4	5 (4,10)	+/-0.07	13.28					
5	6 (7,9)	+/-0.07	14.13					
6	7 (6)	+/-0.07	14.43					
7	8 (5,8)	+/-0.07	14.62					
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.25					
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	15.97					
13	14 (15,18)	+/-0.07	16.10					
14	15 (17)	+/-0.07	16.19					
15	16 (24,27)	+/-0.07	16.48					
16	17 (16,32)	+/-0.07	16.74					
17	19 (23,34,54)	+/-0.07	17.20					
18	20 (29)	+/-0.07	17.37					
19	21 (26)	+/-0.07	17.49					
20	22 (25)	+/-0.07	17.57					
21	23 (31)	+/-0.07	17.77					
22	24 (28,50)	+/-0.07	17.82					
23	25 (20,21,33,53)	+/-0.07	18.17					
24	26 (22,51)	+/-0.07	18.40					
25	27 (45)	+/-0.07	18.63					
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	18.90					
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.20					
30	32 (43,49)	+/-0.07	19.36					
31	33 (38,47)	+/-0.07	19.48					
32	34 (48,75)	+/-0.07	19.54					
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	19.73					
35	37 (104,44)	+/-0.07	19.93					
36	38 (37,42,59)	+/-0.07	20.06					
37	39 (41,64,71,72)	+/-0.07	20.40					
38	41 (68,96)	+/-0.07	20.56					
39	42 (40)	+/-0.07	20.66					
40	43 (57,103)	+/-0.07	20.92					
41	44 (58,67,100)	+/-0.07	21.08					
42	45 (63)	+/-0.07	21.24					
43	46 (74,94,61)	+/-0.07	21.41					
44	47 (70)	+/-0.07	21.54					
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.66					
46	49 (55,91,121)	+/-0.07	21.96					
47	50 (56,60)	+/-0.07	22.26					
48	51 (84,92,155)	+/-0.07	22.50					
49	52 (89)	+/-0.07	22.60					
50	53 (90,101)	+/-0.07	22.76					
51	54 (79,99,113)	+/-0.07	22.95					
52	55 (119,150)	+/-0.07	23.23					
53	56 (78,83,112,108)	+/-0.07	23.32					
54	57 (97,152,86)	+/-0.07	23.53					
55	58 (81,87,117,125,115,145)	+/-0.07	23.71					
56	59 (116,85,111)	+/-0.07	23.86					

Nea Lims Version : 4.4.4.1

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0531A	CCCS0531D File ID: GC24-73-19					
			Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
57	60 (120,136)	+/-0.07	23.99					
58	61 (77,110,148)	+/-0.07	24.11					
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.48					
61	64 (151)	+/-0.07	24.77					
62	65 (124,135)	+/-0.07	24.91					
63	66 (144)	+/-0.07	24.97					
64	67 (107,109,147)	+/-0.07	25.03					
65	68 (123)	+/-0.07	25.13					
66	69 (106,118,139,149)	+/-0.07	25.22					
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.61					
69	72 (122,131,133,142)	+/-0.07	25.80					
70	73 (146,165,188)	+/-0.07	26.08					
71	74 (105,132,161)	+/-0.07	26.20					
72	75 (153)	+/-0.07	26.36					
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	26.87					
75	78 (179)	+/-0.07	26.94					
76	79 (137)	+/-0.07	27.14					
77	80 (130,176)	+/-0.07	27.28					
78	82 (138,163,164)	+/-0.07	27.50					
79	83 (158,160,186)	+/-0.07	27.67					
80	84 (126,129)	+/-0.07	27.88					
81	85 (166,178)	+/-0.07	28.21					
82	87 (175,159)	+/-0.07	28.49					
83	88 (182,187)	+/-0.07	28.64					
84	89 (128,162)	+/-0.07	28.76					
85	90 (183)	+/-0.07	28.93					
86	91 (167)	+/-0.07	29.19					
87	92 (185)	+/-0.07	29.52					
88	93 (174,181)	+/-0.07	29.88					
89	94 (177)	+/-0.07	30.14					
90	95 (156,171)	+/-0.07	30.43					
91	96 (157,202)	+/-0.07	30.68					
92	98 (173)	+/-0.07	30.84					
93	99 (201)	+/-0.07	31.20					
94	100 (172,204)	+/-0.07	31.44					
95	101 (192,197)	+/-0.07	31.73					
96	102 (180)	+/-0.07	31.90					
97	103 (193)	+/-0.07	32.14					
98	104 (191)	+/-0.07	32.44					
99	105 (200,169)	+/-0.07	32.78					
100	106 (170)	+/-0.07	33.89					
101	107 (190)	+/-0.07	34.14					
102	108 (198)	+/-0.07	34.97					
103	109 (199)	+/-0.07	35.21					
104	110 (196,203)	+/-0.07	35.74					
105	111 (189)	+/-0.07	36.83					
106	112 (195)	+/-0.07	38.34					
107	113 (208)	+/-0.07	38.84					
108	114 (207)	+/-0.07	39.74					
109	115 (194)	+/-0.07	41.11					
110	116 (205)	+/-0.07	41.96					
111	117 (206)	+/-0.07	46.94					
112	118 (209)	+/-0.07	52.78					

Nea Lims Version : 4.4.4.1

# Calibration Component Summary Table

## Component Summary for RF



Project Name:	GC24_Mar_2009	Current Time:	10:43:36
Sample Set Name:	GC24_CC_051909	Current Date:	06/03/2009
Processing Method:	CSGB_LL1X_051909	Calibration ID:	16666
Run Time:	60 Minutes	Calibration Date(s):	05/20/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999575	Y = 3.09e-002 X + 2.07e-003	0.00206705969301857	0.0309194715483761
2	3 (2)	1.000000	Y = 3.73e-003 X	0	0.00372826264897671
3	4 (3)	0.999985	Y = 1.63e-002 X - 5.59e-004	-0.00055908602912781	0.016280867313507
4	5 (4,10)	0.999367	Y = 7.08e-002 X + 1.35e-003	0.00134698404867273	0.0708161427922385
5	6 (7,9)	0.999762	Y = 4.83e-001 X + 3.90e-003	0.00389713574133788	0.483029047190598
6	7 (6)	0.999132	Y = 2.37e-001 X + 4.10e-003	0.0041034515911676	0.237326047406031
7	8 (5,8)	0.999512	Y = 1.24e-001 X + 1.94e-002	0.0193638128369826	0.123898002176251
8	9 (14)	1.000000	Y = 1.81e-001 X	0	0.180830218541806
9	10 (19)	0.999894	Y = 3.79e-001 X - 9.24e-004	-0.00092361332299195	0.378503817213974
10	11 (30)	1.000000	Y = 6.66e-001 X	0	0.66572377286361
11	12 (11)	1.000000	Y = 6.37e-002 X	0	0.0637311768270859
12	13 (12,13)	0.999144	Y = 3.81e-001 X - 1.63e-003	-0.00163418961420378	0.381218151329593
13	14 (15,18)	0.999827	Y = 3.91e-001 X + 1.93e-002	0.0192541079358082	0.390944658189704
14	15 (17)	0.999309	Y = 1.87e-001 X + 5.01e-003	0.00500594700346668	0.187133839407594
15	16 (24,27)	0.999498	Y = 6.10e-001 X + 1.04e-003	0.00104415558520116	0.609530716962526
16	17 (16,32)	0.999701	Y = 3.30e-001 X + 1.19e-002	0.0119208402822457	0.329617782491444
17	19 (23,34,54)	1.000000	Y = 4.00e-001 X	0	0.40020226822249
18	20 (29)	0.999811	Y = 6.73e-001 X + 2.07e-005	2.06543113139557E-5	0.673034692989173
19	21 (26)	0.999763	Y = 4.43e-001 X + 6.40e-004	0.000639653987790589	0.442523446690824
20	22 (25)	0.999776	Y = 5.80e-001 X - 2.53e-005	-2.52858018310598E-5	0.580030074425565
21	23 (31)	0.999264	Y = 5.27e-001 X + 3.13e-002	0.031325042369915	0.527219792834913
22	24 (28,50)	0.999665	Y = 5.92e-001 X + 3.06e-002	0.0305571140317582	0.59246910418888
23	25 (20,21,33,53)	0.999568	Y = 4.58e-001 X + 1.82e-002	0.0182134868133408	0.457691370276603
24	26 (22,51)	0.999684	Y = 4.36e-001 X + 1.40e-002	0.0139797516294418	0.436348091230686
25	27 (45)	0.999568	Y = 4.92e-001 X + 1.15e-003	0.00114896574138962	0.492320769840655
26	28 (36)	1.000000	Y = 3.10e-001 X	0	0.310499211557503
27	29 (46)	0.999079	Y = 4.38e-001 X + 7.57e-004	0.000756994683620643	0.438455984190503
28	30 (39)	1.000000	Y = 3.04e-001 X	0	0.304118675618949
29	31 (52,69,73)	0.999426	Y = 3.56e-001 X + 1.89e-002	0.0188740522943813	0.355792627126559
30	32 (43,49)	0.999574	Y = 7.11e-001 X + 1.49e-002	0.0149027875282279	0.711002494470916
31	33 (38,47)	0.998886	Y = 1.01e+000 X + 6.89e-003	0.00688932021555722	1.01118198648965
32	34 (48,75)	0.999213	Y = 7.25e-001 X + 9.36e-003	0.00935981592431312	0.725283385046781
33	35 (62,65)	1.000000	Y = 7.98e-001 X	0	0.798101004896703
34	36 (35)	1.000000	Y = 2.97e-001 X	0	0.29742289075574
35	37 (104,44)	0.999232	Y = 5.54e-001 X + 3.19e-002	0.0319445711655302	0.553753009481678
36	38 (37,42,59)	0.999472	Y = 4.48e-001 X + 1.35e-002	0.0135355508969393	0.44804980130879
37	39 (41,64,71,72)	0.999457	Y = 7.17e-001 X + 3.10e-002	0.0310483611595127	0.717200844509956
38	41 (68,96)	1.000000	Y = 4.23e-001 X	0	0.422509083805419



Project Name:	GC24_Mar_2009	Current Time:	10:43:37
Sample Set Name:	GC24_CC_051909	Current Date:	06/03/2009
Processing Method:	CSGB_LL1X_051909	Calibration ID:	16666
Run Time:	60 Minutes	Calibration Date(s):	05/20/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999337	Y = 6.04e-001 X - 5.42e-004	-0.00054217805957290	0.60400693604042
40	43 (57,103)	1.000000	Y = 5.87e-001 X	0	0.586988438524173
41	44 (58,67,100)	0.999302	Y = 8.82e-001 X - 1.61e-004	-0.00016068045118040	0.881779124864276
42	45 (63)	0.999129	Y = 8.56e-001 X + 3.23e-004	0.000323375808139625	0.85603061890811
43	46 (74,94,61)	0.999687	Y = 1.06e+000 X + 2.29e-002	0.0228567792436027	1.05988473972809
44	47 (70)	0.999528	Y = 8.43e-001 X + 3.31e-002	0.0331249962615527	0.84312735631963
45	48 (66,76,98,80,93,95,102,88)	0.999532	Y = 5.61e-001 X + 5.15e-002	0.0514763223433561	0.560585545749401
46	49 (55,91,121)	0.999496	Y = 6.66e-001 X + 3.30e-003	0.00329894336522218	0.666086818045232
47	50 (56,60)	0.999648	Y = 8.57e-001 X + 3.58e-002	0.0357775075819693	0.857267329807312
48	51 (84,92,155)	0.999204	Y = 3.30e-001 X + 1.18e-003	0.0011807137208889	0.330120273045822
49	52 (89)	0.998519	Y = 6.63e-001 X + 5.95e-004	0.000594601708037032	0.663474847359483
50	53 (90,101)	0.998980	Y = 7.06e-001 X + 8.93e-003	0.00893234360772754	0.705573223261763
51	54 (79,99,113)	0.998987	Y = 1.10e+000 X + 6.27e-003	0.00626721256910345	1.0968700790182
52	55 (119,150)	0.997118	Y = 1.70e+000 X + 3.40e-004	0.000339684776118981	1.69952423590629
53	56 (78,83,112,108)	0.999442	Y = 6.75e-001 X - 5.28e-004	-0.00052808989350343	0.675482316198415
54	57 (97,152,86)	0.999450	Y = 9.56e-001 X + 2.10e-003	0.00210400291305557	0.955818070723889
55	58 (81,87,117,125,115,145)	0.999337	Y = 8.02e-001 X + 6.13e-003	0.0061287203263124	0.80217185576325
56	59 (116,85,111)	0.999738	Y = 9.89e-001 X + 3.18e-003	0.00318095119529438	0.989289865660487
57	60 (120,136)	0.999671	Y = 8.01e-001 X + 8.35e-003	0.00834546911901324	0.801252748893685
58	61 (77,110,148)	0.999451	Y = 7.04e-001 X + 1.65e-002	0.0164853437823635	0.703511183769472
59	62 (154)	1.000000	Y = 6.94e-001 X	0	0.693516085986363
60	63 (82)	0.999550	Y = 8.91e-001 X - 9.39e-004	-0.00093913530317751	0.890670964431909
61	64 (151)	0.999557	Y = 7.73e-001 X + 1.42e-002	0.0142023355815728	0.77260216815295
62	65 (124,135)	0.999851	Y = 1.38e+000 X + 2.09e-003	0.00209445218688831	1.37992189384358
63	66 (144)	0.998558	Y = 5.01e-001 X - 5.52e-005	-5.51972306607751E-5	0.500659717682379
64	67 (107,109,147)	0.996120	Y = 6.69e-001 X + 1.24e-003	0.0012354289760332	0.669335793508429
65	68 (123)	1.000000	Y = 8.04e-001 X	0	0.804415434372344
66	69 (106,118,139,149)	0.999335	Y = 8.53e-001 X + 4.32e-002	0.043187720514791	0.853361260616962
67	70 (140)	1.000000	Y = 8.17e-001 X	0	0.816789836193655
68	71 (114,134,143)	0.999728	Y = 9.82e-001 X - 2.27e-004	-0.00022723551314585	0.981821272135589
69	72 (122,131,133,142)	0.998242	Y = 1.56e+000 X - 2.86e-004	-0.00028576393388318	1.55760730080553
70	73 (146,165,188)	0.999533	Y = 9.58e-001 X - 1.79e-006	-1.78924418053894E-6	0.958454266234542
71	74 (105,132,161)	0.999256	Y = 1.18e+000 X + 4.30e-003	0.00429688523390648	1.18099993739312
72	75 (153)	0.999320	Y = 1.05e+000 X + 3.60e-002	0.0360483596871646	1.05112947793553
73	76 (127,168,184)	1.000000	Y = 7.12e-001 X	0	0.711536837270072
74	77 (141)	0.998970	Y = 6.66e-001 X + 8.19e-003	0.00819277922402439	0.66587714114836
75	78 (179)	0.998734	Y = 7.97e-001 X + 5.49e-003	0.00549255185918729	0.796901551027843
76	79 (137)	0.997100	Y = 4.92e-001 X + 5.12e-004	0.000511826619128741	0.492330326059171



Project Name:	GC24_Mar_2009	Current Time:	10:43:37
Sample Set Name:	GC24_CC_051909	Current Date:	06/03/2009
Processing Method:	CSGB_LL1X_051909	Calibration ID:	16666
Run Time:	60 Minutes	Calibration Date(s):	05/20/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.998179	Y = 1.82e+000 X + 4.47e-003	0.00447099473634105	1.82297530752434
78	82 (138,163,164)	0.999249	Y = 9.98e-001 X + 3.38e-002	0.0338128035029843	0.997723021242245
79	83 (158,160,186)	0.999059	Y = 1.17e+000 X + 1.16e-003	0.00115510171326799	1.16908700692326
80	84 (126,129)	0.998148	Y = 4.76e+000 X + 4.77e-004	0.000477068650858128	4.76484291534076
81	85 (166,178)	0.999578	Y = 5.37e-001 X + 4.59e-003	0.00459430356997381	0.537202857750042
82	87 (175,159)	0.999583	Y = 6.06e-001 X - 8.76e-004	-0.00087609539268965	0.606284239823208
83	88 (182,187)	0.999436	Y = 9.62e-001 X + 4.21e-002	0.0420789061137907	0.961941813398709
84	89 (128,162)	0.999587	Y = 1.36e+000 X - 5.21e-004	-0.00052146838975758	1.35714212111374
85	90 (183)	0.999499	Y = 9.38e-001 X + 8.47e-003	0.00847398993038295	0.938013480068618
86	91 (167)	0.996090	Y = 1.39e+000 X + 8.87e-004	0.000887219250638338	1.39477409273494
87	92 (185)	0.999647	Y = 1.40e+000 X - 2.34e-003	-0.00234214496946794	1.39701695130722
88	93 (174,181)	0.999724	Y = 9.39e-001 X + 2.94e-002	0.0294275084124056	0.938639475772531
89	94 (177)	0.999345	Y = 8.45e-001 X + 4.31e-003	0.00430595292669267	0.845144897773941
90	95 (156,171)	0.999462	Y = 9.34e-001 X + 3.63e-003	0.0036330014983128	0.933905199727212
91	96 (157,202)	0.999686	Y = 6.51e+000 X - 7.49e-004	-0.00074882761398487	6.51240985866064
92	98 (173)	0.998939	Y = 1.20e+000 X + 6.85e-004	0.000685438784155681	1.2047865476684
93	99 (201)	0.999937	Y = 9.02e-001 X - 6.76e-004	-0.00067571874450206	0.901911753492894
94	100 (172,204)	0.999792	Y = 8.57e-001 X + 3.51e-003	0.00351060080594384	0.856666246394919
95	101 (192,197)	0.999585	Y = 7.27e-001 X + 7.57e-004	0.000756816398108831	0.726941106077834
96	102 (180)	0.999492	Y = 1.10e+000 X + 7.94e-002	0.0794311330436761	1.10048237673741
97	103 (193)	0.999676	Y = 9.05e-001 X - 2.29e-003	-0.00228797663331637	0.904950342812774
98	104 (191)	0.999977	Y = 8.55e-001 X + 7.15e-004	0.000715175146052516	0.855485263707892
99	105 (200,169)	0.999790	Y = 9.80e-001 X + 5.69e-004	0.000569288899311515	0.98033853960275
100	106 (170)	0.999947	Y = 1.69e+000 X + 2.14e-002	0.0214257222973999	1.6908686833203
101	107 (190)	0.998938	Y = 1.43e+000 X - 5.79e-003	-0.00578560552150098	1.43095572506392
102	108 (198)	0.998267	Y = 1.65e+000 X + 9.05e-004	0.000905373616641531	1.64529062443625
103	109 (199)	0.999478	Y = 6.51e-001 X + 2.41e-002	0.0241277560730211	0.65060483458814
104	110 (196,203)	0.999608	Y = 7.07e-001 X + 3.29e-002	0.0329097571927184	0.706981432326174
105	111 (189)	0.999087	Y = 1.74e+000 X + 5.99e-004	0.000598829763398964	1.73640326093177
106	112 (195)	0.999761	Y = 1.95e+000 X + 2.48e-003	0.0024758571090624	1.95212720008384
107	113 (208)	0.999825	Y = 6.91e-001 X - 1.92e-003	-0.00192203891751294	0.690671901421383
108	114 (207)	0.999846	Y = 1.37e+000 X + 1.18e-003	0.00117519266680277	1.37211539344532
109	115 (194)	0.999373	Y = 1.58e+000 X + 2.27e-002	0.0226870531855243	1.58255135386253
110	116 (205)	0.999784	Y = 1.33e+000 X - 1.07e-004	-0.00010667304406344	1.32982953995217
111	117 (206)	0.999950	Y = 1.50e+000 X + 1.03e-004	0.000103175663838551	1.50426506694955
112	118 (209)	0.997201	Y = 1.88e+000 X + 2.90e-004	0.00028957861102924	1.8761886190844
113	I.S. (OCN)	1.000000	Y = 6.39e+003 X	0	6387.37859775111

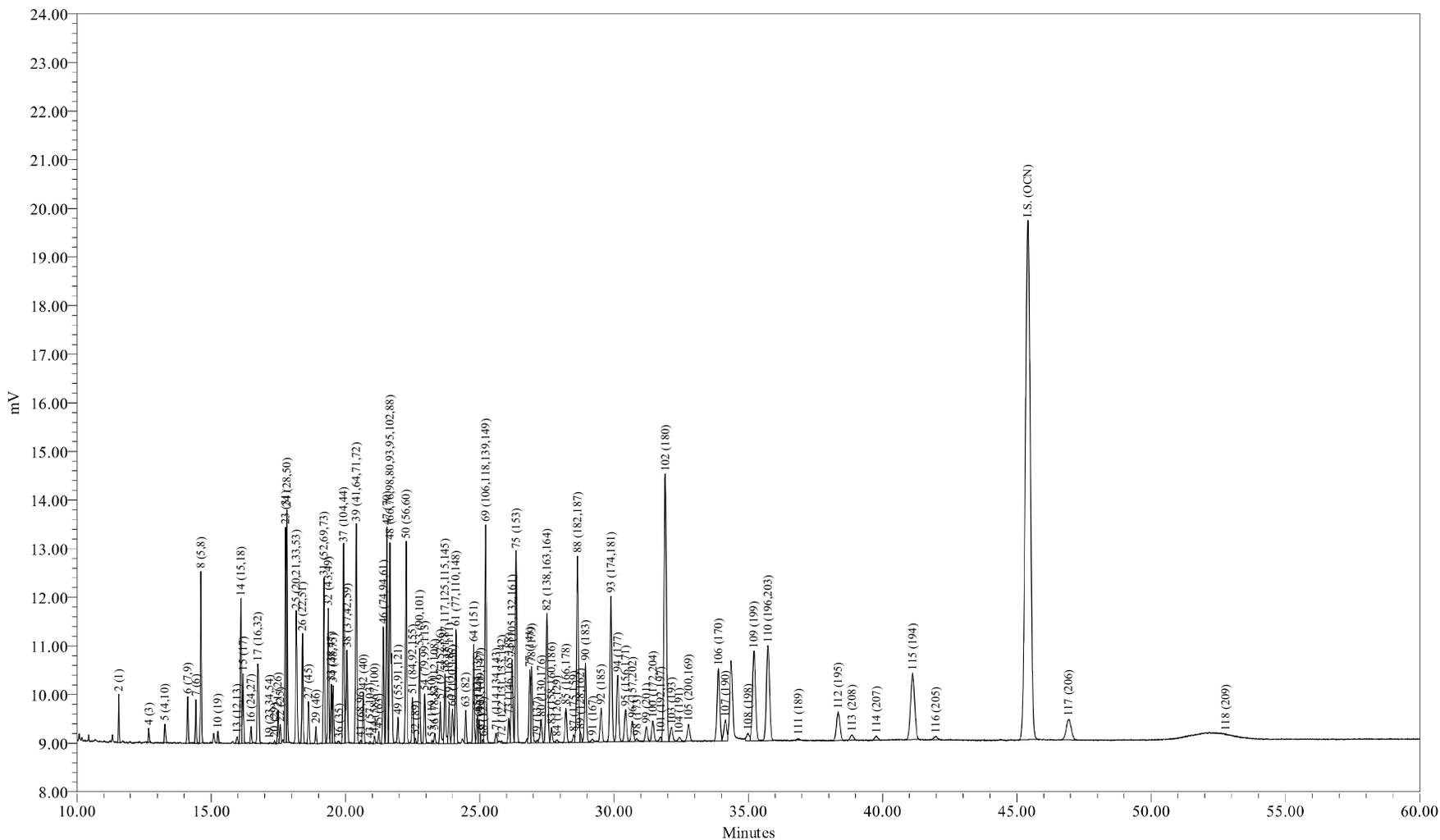
# Standards Raw Data



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: CCCS0531A  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 5/31/2009 10:22:41 AM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_051909  
 LIMS File ID: GC24-73-2

Sample Name: CCCS0531A

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 10:22:41  
 Lab Sample ID: CCCS0531A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-2

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 115 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.68	15.96
Di	12.40	15.59
Tri	17.95	19.63
Tetra	21.25	20.58
Penta	8.40	7.21
Hexa	8.00	6.30
Hepta	13.44	9.60
Octa	7.25	4.76
Nona	0.63	0.38
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.5151	37.6	30.6
A1242	23+24/31+28	5.7880	29.0	23.5
A1254SED	61/100	1.4519	7.27	
A1254BIO	69+75+82/149+153+138	6.0772		24.7
A1260	102/180	4.0267	20.2	16.4
A1268	115/194	1.1791	5.91	4.80

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.13

Total Cl / biphenyl Residue = 3.71

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 10:22:41  
 Lab Sample ID: CCCS0531A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.57	188.7	1776	7.52	39.8			
3	12.58	188.7		-	-			
4	12.68	188.7	578	4.72	25.0			
5	13.28	223.1	1081	2.00	8.95			
6	14.13	223.1	2676	0.723	3.24			
7	14.43	223.1	2143	1.17	5.26			
8	14.62	223.1	9003	9.43	42.3			
9	15.18	223.1		-	-			
10	15.25	257.5	598	0.211	0.819			
11	15.72	257.5		-	-			
12	15.78	223.1		-	-			
13	15.97	223.1	506	0.180	0.805			
14	16.11	249.0	8490	2.82	11.3			
15	16.19	257.5	3823	2.67	10.4			
16	16.49	257.5	933	0.200	0.778			
17	16.74	257.5	7314	2.89	11.2			
19	17.18	267.9	73	0.0240	0.0894			
20	17.36	257.5	190	0.0373	0.145			
21	17.49	257.5	1917	0.570	2.21			
22	17.58	257.5	1068	0.243	0.944			
23	17.77	257.5	11536	2.83	11.0			
24	17.82	257.5	13520	2.96	11.5			
25	18.17	259.5	9934	2.82	10.9			
26	18.40	258.7	6571	1.96	7.56			
27	18.63	292.0	2567	0.686	2.35			
28	18.77	257.5		-	-			
29	18.90	292.0	989	0.296	1.01			
30	19.03	257.5		-	-			
31	19.20	292.0	10171	3.72	12.7			
32	19.36	292.0	8355	1.53	5.24			
33	19.48	292.0	3664	0.471	1.61			
34	19.54	292.0	3633	0.648	2.22			
35	19.68	292.0		-	-			
36	19.76	257.5	146	0.0649	0.252			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.93	292.0	12733	2.98	10.2			
38	20.06	272.4	7252	2.11	7.73			
39	20.40	292.0	14280	2.58	8.85			
41	20.57	326.4	168	0.0526	0.161			
42	20.67	292.0	3251	0.711	2.44			
43	20.91	298.9	133	0.0299	0.100			
44	21.08	298.9	489	0.0734	0.245			
45	21.24	292.0	758	0.116	0.399			
46	21.41	292.0	7617	0.927	3.17			
47	21.55	292.0	14470	2.23	7.62			
48	21.66	293.5	19112	4.41	15.0			
49	21.96	324.7	1661	0.324	0.998			
50	22.26	292.0	13334	2.01	6.89			
51	22.50	326.4	3733	1.49	4.56			
52	22.60	326.4	327	0.0641	0.196			
53	22.76	326.4	6855	1.27	3.89			
54	22.95	326.4	3348	0.397	1.22			
55	23.22	326.4	185	0.0142	0.0434			
56	23.32	326.4	660	0.130	0.397			
57	23.53	326.4	3048	0.419	1.28			
58	23.71	326.4	5225	0.852	2.61			
59	23.86	326.4	2842	0.376	1.15			
60	23.99	360.9	2831	0.456	1.26			
61	24.11	326.4	7865	1.45	4.45			
62	24.39	360.9	-	-	-			
63	24.48	326.4	2208	0.328	1.01			
64	24.78	360.9	6922	1.16	3.23			
65	24.91	350.5	2043	0.194	0.553			
66	24.97	360.9	1528	0.403	1.12			
67	25.03	336.8	533	0.103	0.307			
68	25.13	326.4	184	0.0302	0.0924			
69	25.22	337.5	16738	2.54	7.52			
70	25.33	360.9	-	-	-			
71	25.61	347.8	792	0.107	0.307			
72	25.82	336.8	121	0.0104	0.0309			
73	26.09	360.9	1776	0.245	0.678			
74	26.21	347.8	7536	0.838	2.41			
75	26.36	360.9	15019	1.85	5.13			
76	26.47	360.9	-	-	-			
77	26.87	360.9	5731	1.12	3.11			
78	26.94	395.3	6241	1.03	2.60			
79	27.14	360.9	166	0.0436	0.121			
80	27.29	360.9	2313	0.165	0.457			
82	27.50	360.9	13019	1.69	4.68			
83	27.68	360.9	1427	0.160	0.444			
84	27.88	360.9	300	0.00820	0.0227			
85	28.21	395.3	3187	0.774	1.96			
87	28.50	395.3	653	0.144	0.363			
88	28.65	395.3	18262	2.46	6.23			
89	28.74	360.9	698	0.0683	0.189			
90	28.94	395.3	8100	1.13	2.86			
91	29.20	360.9	366	0.0340	0.0942			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.52	394.3	3504	0.333	0.844			
93	29.88	394.3	15455	2.14	5.43			
94	30.14	394.3	7287	1.13	2.87			
95	30.43	382.2	3607	0.506	1.32			
96	30.68	429.8	2364	0.0480	0.112			
98	30.84	395.3	259	0.0278	0.0704			
99	31.21	429.8	1737	0.255	0.593			
100	31.45	395.3	2438	0.371	0.940			
101	31.74	429.8	479	0.0859	0.200			
102	31.91	395.3	34182	4.03	10.2			
103	32.15	395.3	1927	0.283	0.717			
104	32.43	395.3	584	0.0892	0.226			
105	32.78	429.8	2189	0.294	0.684			
106	33.89	395.3	10819	0.832	2.10			
107	34.15	395.3	3104	0.290	0.734			
108	34.99	429.8	1178	0.0939	0.219			
109	35.21	429.8	14791	2.96	6.89			
110	35.73	429.8	16095	2.96	6.88			
111	36.86	395.3	218	0.0162	0.0410			
112	38.35	429.8	5276	0.355	0.827			
113	38.86	464.2	914	0.177	0.382			
114	39.77	464.2	670	0.0635	0.137			
115	41.12	429.8	14312	1.18	2.74			
116	41.99	429.8	741	0.0736	0.171			
117	46.92	464.2	5462	0.479	1.03			
118	52.77	498.6	14	0.000819	0.00164			

Total Concentration = 115 ng/mL

Total Nanomoles = 0.406

Average Molecular Weight = 281.9

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 137764.7

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 10:22:41  
 Lab Sample ID: CCCS0531A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	6.560	9.801
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003	0.2792	4	4.120	6.156
5	13.28	2:2	004 010	0.2924	2-2; 26	1.742	2.202
6	14.13	2:1	007 009	0.3112	24; 25	0.631	0.797
7	14.43	2:1	006	0.3178	2-3	1.025	1.295
8	14.62	2:1	005 008	0.3220	23; 2-4	8.234	10.405
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	0.184	0.202
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.97	2:0	012 013	0.3517	34; 3-4	0.157	0.198
14	16.11	2:0 3:2	015 018	0.3548	4-4; 25-2	2.458	2.784
15	16.19	3:2	017	0.3565	24-2	2.330	2.551
16	16.49	3:2	024 027	0.3631	236; 26-3	0.175	0.191
17	16.74	3:2	016 032	0.3686	23-2; 26-4	2.525	2.764
19	17.18	3:1 4:4	023 034 054	0.3783	235; 35-2; 26-26	0.021	0.022
20	17.36	3:1	029	0.3823	245	0.033	0.036
21	17.49	3:1	026	0.3852	25-3	0.498	0.545
22	17.58	3:1	025	0.3871	24-3	0.212	0.232
23	17.77	3:1	031	0.3913	25-4	2.469	2.703
24	17.82	3:1 4:3	028 050	0.3924	24-4; 246-2	2.584	2.829
25	18.17	3:1 4:3	020 021 033 053	0.4001	23-3; 234; 34-2; 25-26	2.465	2.678
26	18.40	3:1 4:3	022 051	0.4052	23-4; 24-26	1.707	1.860
27	18.63	4:3	045	0.4103	236-2	0.599	0.578
28	18.77	3:0	036		35-3	-	-
29	18.90	4:3	046	0.4162	23-26	0.258	0.249
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4228	25-25; 246-3; 26-35	3.247	3.135
32	19.36	4:2	043 049	0.4263	235-2; 24-25	1.335	1.289
33	19.48	4:2	038 047	0.4290	345; 24-24	0.411	0.397
34	19.54	4:2	048 075	0.4303	245-2; 246-4	0.566	0.546
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035	0.4351	34-3	0.057	0.062
37	19.93	5:4 4:2	104 044	0.4389	246-26; 23-25	2.598	2.509
38	20.06	3:0 4:2	037 042 059	0.4418	34-4; 23-24; 236-3	1.838	1.902
39	20.40	4:2	041 064 071 072	0.4492	234-2; 236-4; 26-34; 25-35	2.256	2.178

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096	0.4530	24-35; 236-26	0.046	0.040
42	20.67	4:2	040	0.4552	23-23	0.621	0.599
43	20.91	4:1 5:3	057 103	0.4605	235-3; 246-25	0.026	0.025
44	21.08	4:1 5:3	058 067 100	0.4642	23-35; 245-3; 246-24	0.064	0.060
45	21.24	4:1	063	0.4677	235-4	0.102	0.098
46	21.41	4:1 5:3	074 094 061	0.4715	245-4; 235-26; 2345	0.809	0.781
47	21.55	4:1	070	0.4746	25-34	1.943	1.876
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4770	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.847	3.695
49	21.96	4:1 5:3	055 091 121	0.4836	234-3; 236-24; 246-35	0.283	0.246
50	22.26	4:1	056 060	0.4902	23-34; 234-4	1.755	1.695
51	22.50	5:3 6:4	084 092 155	0.4955	236-23; 235-25; 246-246	1.299	1.122
52	22.60	5:3	089	0.4977	234-26	0.056	0.048
53	22.76	5:2	090 101	0.5012	235-24; 245-25	1.108	0.957
54	22.95	5:2	079 099 113	0.5054	34-35; 245-24; 236-35	0.347	0.299
55	23.22	5:2 6:4	119 150	0.5113	246-34; 236-246	0.012	0.011
56	23.32	5:2	078 083 112 108	0.5135	345-3; 235-23; 2356-3; 2346-3	0.113	0.098
57	23.53	5:2 6:4	097 152 086	0.5182	245-23; 2356-26; 2345-2	0.365	0.316
58	23.71	5:2	081 087 117 125 115 145	0.5221	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.744	0.642
59	23.86	5:2	116 085 111	0.5254	23456; 234-24; 235-35	0.328	0.283
60	23.99	6:4	120 136	0.5283	245-35; 236-236	0.398	0.311
61	24.11	5:2	077 110 148	0.5309	34-34; 236-34; 235-246	1.267	1.095
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5391	234-23	0.286	0.247
64	24.78	6:3	151	0.5457	2356-25	1.016	0.794
65	24.91	5:1 6:3	124 135	0.5486	345-25; 235-236	0.169	0.136
66	24.97	6:3	144	0.5499	2346-25	0.352	0.275
67	25.03	5:1 6:3	107 109 147	0.5512	234-35; 235-34; 2356-24	0.090	0.075
68	25.13	5:1	123	0.5534	345-24	0.026	0.023
69	25.22	5:1 6:3	106 118 139 149	0.5554	2345-3; 245-34; 2346-24; 236-245	2.215	1.850
70	25.33	6:3	140		234-246	-	-
71	25.61	5:1 6:3	114 134 143	0.5640	2345-4; 2356-23; 2345-26	0.093	0.075
72	25.82	5:1 6:3	122 131 133 142	0.5686	345-23; 2346-23; 235-235; 23456-2	0.009	0.008
73	26.09	6:2	146 165 188	0.5745	235-245; 2356-35; 2356-246	0.213	0.167
74	26.21	5:1 6:3	105 132 161	0.5772	234-34; 234-236; 2346-35	0.732	0.593
75	26.36	6:2	153	0.5805	245-245	1.616	1.262
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141	0.5917	2345-25	0.981	0.766
78	26.94	7:4	179	0.5933	2356-236	0.896	0.639
79	27.14	6:2	137	0.5977	2345-24	0.038	0.030
80	27.29	6:2 7:4	130 176	0.6010	234-235; 2346-236	0.144	0.112
82	27.50	6:2	138 163 164	0.6056	234-245; 2356-34; 236-345	1.473	1.151
83	27.68	6:2	158 160 186	0.6096	2346-34; 23456-3; 23456-26	0.140	0.109
84	27.88	6:2	126 129	0.6140	345-34; 2345-23	0.007	0.006
85	28.21	7:3	166 178	0.6212	23456-4; 2356-235	0.676	0.482
87	28.50	7:3	175 159	0.6276	2346-235; 2345-35	0.125	0.089
88	28.65	7:3	182 187	0.6309	2345-246; 2356-245	2.149	1.532
89	28.74	6:2	128 162	0.6329	234-234; 235-345	0.060	0.047
90	28.94	7:3	183	0.6373	2346-245	0.987	0.704
91	29.20	6:1	167	0.6430	245-345	0.030	0.023
92	29.52	7:3	185	0.6501	23456-25	0.290	0.208
93	29.88	7:3	174 181	0.6580	2345-236; 23456-24	1.869	1.337
94	30.14	7:3	177	0.6637	2356-234	0.989	0.707
95	30.43	6:1 7:3	156 171	0.6701	2345-34; 2346-234	0.441	0.326
96	30.68	8:4	157 202	0.6756	234-345; 2356-2356	0.042	0.027
98	30.84	7:3	173	0.6791	23456-23	0.024	0.017
99	31.21	8:4	201	0.6873	2346-2356	0.223	0.146
100	31.45	7:2	172 204	0.6926	2345-235; 23456-246	0.324	0.231
101	31.74	8:4	192 197	0.6990	23456-35; 2346-2346	0.075	0.049
102	31.91	7:2	180	0.7027	2345-245	3.515	2.507
103	32.15	7:2	193	0.7080	2356-345	0.247	0.176
104	32.43	7:2	191	0.7142	2346-345	0.078	0.056
105	32.78	8:4	200 169	0.7219	23456-236; 345-345	0.257	0.168
106	33.89	7:2	170	0.7463	2345-234	0.726	0.518

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>	0.7520	23456-34	0.253	0.181
108	34.99	8:3	<b>198</b>	0.7705	23456-235	0.082	0.054
109	35.21	8:3	<b>199</b>	0.7754	2345-2356	2.586	1.697
110	35.73	8:3	<b>196 203</b>	0.7868	2345-2346; 23456-245	2.582	1.694
111	36.86	7:1	<b>189</b>	0.8117	2345-345	0.014	0.010
112	38.35	8:3	<b>195</b>	0.8445	23456-234	0.310	0.203
113	38.86	9:4	<b>208</b>	0.8558	23456-2356	0.155	0.094
114	39.77	9:4	<b>207</b>	0.8758	23456-2346	0.055	0.034
115	41.12	8:2	<b>194</b>	0.9055	2345-2345	1.029	0.675
116	41.99	8:2	<b>205</b>	0.9247	23456-345	0.064	0.042
117	46.92	9:3	<b>206</b>	1.033	23456-2345	0.418	0.254
118	52.77	10:4	<b>209</b>	1.162	23456-23456	0.001	0.000

Concentration = 115 ng/mL

Total Nanomoles = 0.406

Average Molecular Weight = 281.9

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

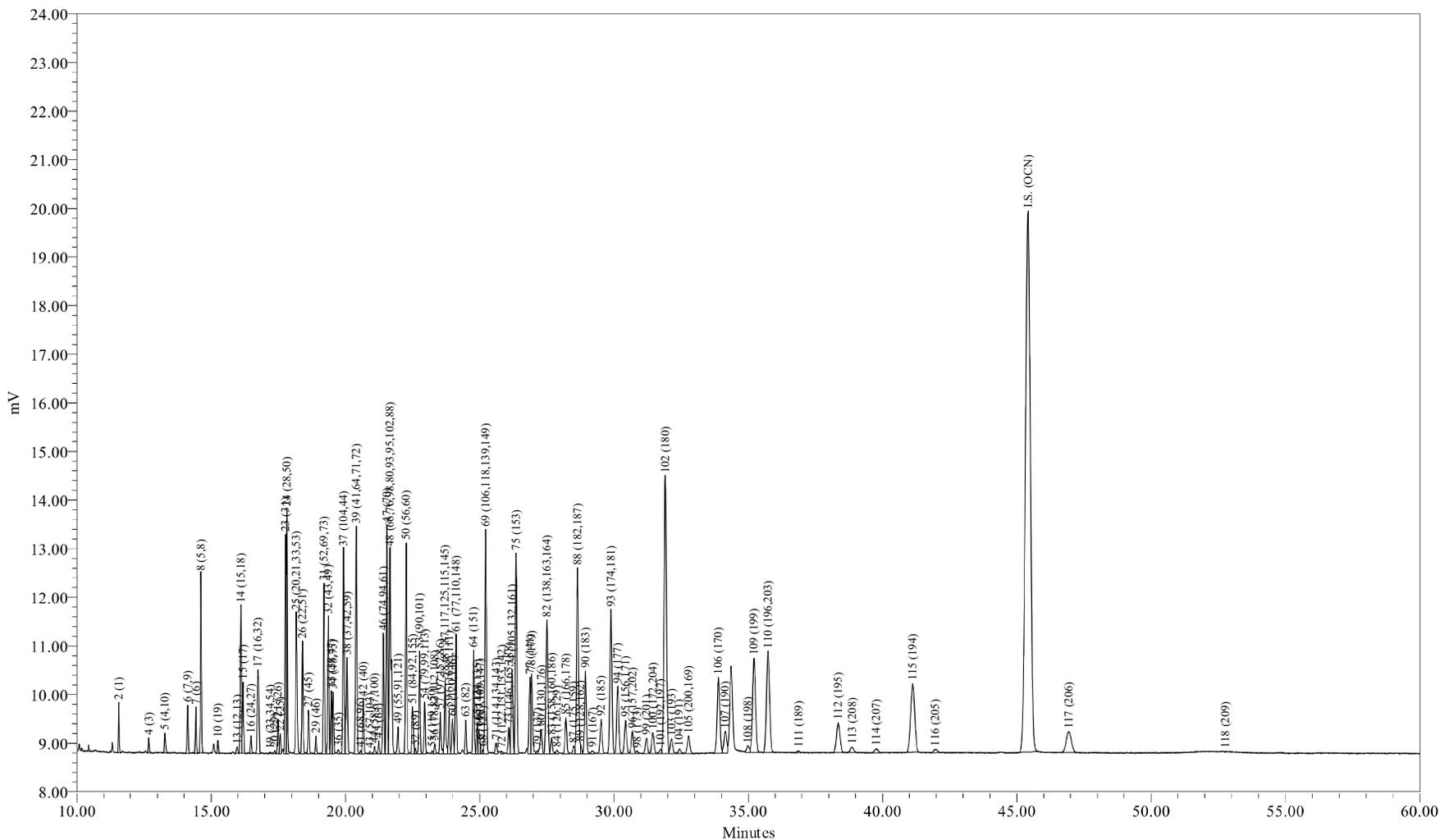
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Sample Name: CCCS0531B  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 5/31/2009 9:34:42 PM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB LL1X\_051909  
 LIMS File ID: GC24-73-12

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 21:34:42  
 Lab Sample ID: CCCS0531B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-12

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 117 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.07	16.50
Di	12.23	15.34
Tri	17.99	19.63
Tetra	21.28	20.56
Penta	8.41	7.20
Hexa	8.05	6.32
Hepta	13.23	9.43
Octa	7.09	4.64
Nona	0.64	0.39
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.6234	37.7	30.6
A1242	23+24/31+28	5.9028	29.2	23.7
A1254SED	61/100	1.4662	7.26	
A1254BIO	69+75+82/149+153+138	6.1681		24.8
A1260	102/180	4.0276	19.9	16.2
A1268	115/194	1.1869	5.87	4.76

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 2.12

Total Cl / biphenyl Residue = 3.69

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 21:34:42  
 Lab Sample ID: CCCS0531B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.57	188.7	1858	7.62	40.4			
3	12.58	188.7		-	-			
4	12.68	188.7	674	5.33	28.3			
5	13.28	223.1	1154	2.07	9.26			
6	14.13	223.1	2803	0.735	3.29			
7	14.43	223.1	2234	1.19	5.32			
8	14.62	223.1	9291	9.44	42.3			
9	15.18	223.1		-	-			
10	15.25	257.5	666	0.228	0.884			
11	15.72	257.5		-	-			
12	15.78	223.1		-	-			
13	15.98	223.1	511	0.176	0.789			
14	16.11	249.0	8882	2.86	11.5			
15	16.19	257.5	3958	2.68	10.4			
16	16.49	257.5	941	0.196	0.761			
17	16.74	257.5	7594	2.91	11.3			
19	17.20	267.9	120	0.0383	0.143			
20	17.37	257.5	210	0.0399	0.155			
21	17.49	257.5	2040	0.589	2.29			
22	17.58	257.5	1128	0.249	0.967			
23	17.78	257.5	12355	2.94	11.4			
24	17.82	257.5	13951	2.96	11.5			
25	18.17	259.5	10467	2.89	11.1			
26	18.40	258.7	6996	2.02	7.81			
27	18.63	292.0	2682	0.695	2.38			
28	18.77	257.5		-	-			
29	18.90	292.0	1091	0.317	1.08			
30	19.03	257.5		-	-			
31	19.20	292.0	10756	3.82	13.1			
32	19.36	292.0	8853	1.57	5.39			
33	19.48	292.0	3912	0.488	1.67			
34	19.54	292.0	3928	0.680	2.33			
35	19.68	292.0		-	-			
36	19.73	257.5	359	0.154	0.599			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.93	292.0	13341	3.03	10.4			
38	20.06	272.4	7784	2.19	8.05			
39	20.40	292.0	15034	2.64	9.04			
41	20.57	326.4	211	0.0640	0.196			
42	20.67	292.0	3464	0.735	2.52			
43	20.91	298.9	173	0.0376	0.126			
44	21.09	298.9	579	0.0843	0.282			
45	21.24	292.0	866	0.129	0.442			
46	21.41	292.0	8011	0.946	3.24			
47	21.54	292.0	15105	2.25	7.72			
48	21.66	293.5	20049	4.49	15.3			
49	21.96	324.7	1957	0.371	1.14			
50	22.26	292.0	13808	2.02	6.92			
51	22.50	326.4	3925	1.52	4.65			
52	22.61	326.4	354	0.0674	0.207			
53	22.76	326.4	7173	1.29	3.95			
54	22.95	326.4	3519	0.405	1.24			
55	23.23	326.4	222	0.0166	0.0507			
56	23.32	326.4	683	0.130	0.399			
57	23.54	326.4	3153	0.420	1.29			
58	23.71	326.4	5430	0.859	2.63			
59	23.86	326.4	2997	0.385	1.18			
60	23.99	360.9	2989	0.467	1.29			
61	24.11	326.4	8187	1.47	4.49			
62	24.39	360.9	-	-	-			
63	24.48	326.4	2334	0.337	1.03			
64	24.78	360.9	7251	1.18	3.28			
65	24.91	350.5	2115	0.195	0.555			
66	24.97	360.9	1668	0.426	1.18			
67	25.02	336.8	570	0.107	0.318			
68	25.12	326.4	216	0.0344	0.105			
69	25.22	337.5	17501	2.57	7.63			
70	25.33	360.9	-	-	-			
71	25.61	347.8	1001	0.131	0.376			
72	25.82	336.8	256	0.0212	0.0630			
73	26.08	360.9	1978	0.264	0.732			
74	26.21	347.8	7985	0.862	2.48			
75	26.36	360.9	15749	1.88	5.22			
76	26.47	360.9	-	-	-			
77	26.87	360.9	6151	1.17	3.24			
78	26.94	395.3	6503	1.04	2.63			
79	27.16	360.9	211	0.0539	0.149			
80	27.29	360.9	2560	0.177	0.491			
82	27.50	360.9	13592	1.71	4.74			
83	27.68	360.9	1531	0.167	0.462			
84	27.88	360.9	398	0.0106	0.0294			
85	28.21	395.3	3353	0.791	2.00			
87	28.49	395.3	731	0.156	0.394			
88	28.64	395.3	19016	2.49	6.29			
89	28.75	360.9	598	0.0568	0.157			
90	28.94	395.3	8378	1.13	2.87			
91	29.20	360.9	402	0.0363	0.101			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.52	394.3	3617	0.333	0.845			
93	29.88	394.3	15949	2.14	5.44			
94	30.14	394.3	7613	1.15	2.91			
95	30.43	382.2	3783	0.515	1.35			
96	30.69	429.8	2560	0.0504	0.117			
98	30.86	395.3	287	0.0299	0.0757			
99	31.21	429.8	1817	0.259	0.602			
100	31.44	395.3	2536	0.375	0.948			
101	31.74	429.8	448	0.0778	0.181			
102	31.91	395.3	35246	4.03	10.2			
103	32.15	395.3	1972	0.281	0.712			
104	32.43	395.3	559	0.0827	0.209			
105	32.78	429.8	2341	0.305	0.710			
106	33.89	395.3	11222	0.837	2.12			
107	34.14	395.3	3158	0.287	0.725			
108	34.98	429.8	1092	0.0844	0.196			
109	35.22	429.8	15149	2.94	6.85			
110	35.74	429.8	16625	2.96	6.90			
111	36.88	395.3	263	0.0191	0.0482			
112	38.35	429.8	5538	0.362	0.842			
113	38.87	464.2	1029	0.194	0.417			
114	39.76	464.2	751	0.0692	0.149			
115	41.12	429.8	14851	1.19	2.76			
116	41.96	429.8	705	0.0679	0.158			
117	46.93	464.2	5664	0.482	1.04			
118	52.76	498.6	11	0.000612	0.00123			

Total Concentration = 117 ng/mL

Total Nanomoles = 0.416

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.42 minutes

Internal Standard Peak Area = 142025.8

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 21:34:42  
 Lab Sample ID: CCCS0531B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2547	2	6.514	9.708
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003	0.2792	4	4.557	6.792
5	13.28	2:2	004 010	0.2924	2-2; 26	1.766	2.226
6	14.13	2:1	007 009	0.3111	24; 25	0.628	0.791
7	14.43	2:1	006	0.3177	2-3	1.015	1.279
8	14.62	2:1	005 008	0.3219	23; 2-4	8.068	10.171
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	0.195	0.212
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013	0.3518	34; 3-4	0.150	0.190
14	16.11	2:0 3:2	015 018	0.3547	4-4; 25-2	2.443	2.759
15	16.19	3:2	017	0.3565	24-2	2.291	2.502
16	16.49	3:2	024 027	0.3631	236; 26-3	0.167	0.183
17	16.74	3:2	016 032	0.3686	23-2; 26-4	2.489	2.718
19	17.20	3:1 4:4	023 034 054	0.3787	235; 35-2; 26-26	0.033	0.034
20	17.37	3:1	029	0.3824	245	0.034	0.037
21	17.49	3:1	026	0.3851	25-3	0.503	0.549
22	17.58	3:1	025	0.3871	24-3	0.213	0.232
23	17.78	3:1	031	0.3915	25-4	2.512	2.744
24	17.82	3:1 4:3	028 050	0.3923	24-4; 246-2	2.531	2.765
25	18.17	3:1 4:3	020 021 033 053	0.4000	23-3; 234; 34-2; 25-26	2.467	2.674
26	18.40	3:1 4:3	022 051	0.4051	23-4; 24-26	1.726	1.877
27	18.63	4:3	045	0.4102	236-2	0.594	0.572
28	18.77	3:0	036		35-3	-	-
29	18.90	4:3	046	0.4161	23-26	0.271	0.261
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4227	25-25; 246-3; 26-35	3.261	3.141
32	19.36	4:2	043 049	0.4262	235-2; 24-25	1.344	1.294
33	19.48	4:2	038 047	0.4289	345; 24-24	0.417	0.402
34	19.54	4:2	048 075	0.4302	245-2; 246-4	0.581	0.560
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.73	3:0	035	0.4344	34-3	0.132	0.144
37	19.93	5:4 4:2	104 044	0.4388	246-26; 23-25	2.586	2.490
38	20.06	3:0 4:2	037 042 059	0.4417	34-4; 23-24; 236-3	1.874	1.935
39	20.40	4:2	041 064 071 072	0.4491	234-2; 236-4; 26-34; 25-35	2.256	2.173

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096	0.4529	24-35; 236-26	0.055	0.047
42	20.67	4:2	040	0.4551	23-23	0.628	0.605
43	20.91	4:1 5:3	057 103	0.4604	235-3; 246-25	0.032	0.030
44	21.09	4:1 5:3	058 067 100	0.4643	23-35; 245-3; 246-24	0.072	0.068
45	21.24	4:1	063	0.4676	235-4	0.110	0.106
46	21.41	4:1 5:3	074 094 061	0.4714	245-4; 235-26; 2345	0.808	0.779
47	21.54	4:1	070	0.4742	25-34	1.926	1.855
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4769	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.833	3.673
49	21.96	4:1 5:3	055 091 121	0.4835	234-3; 236-24; 246-35	0.317	0.275
50	22.26	4:1	056 060	0.4901	23-34; 234-4	1.726	1.662
51	22.50	5:3 6:4	084 092 155	0.4954	236-23; 235-25; 246-246	1.297	1.118
52	22.61	5:3	089	0.4978	234-26	0.058	0.050
53	22.76	5:2	090 101	0.5011	235-24; 245-25	1.101	0.949
54	22.95	5:2	079 099 113	0.5053	34-35; 245-24; 236-35	0.346	0.298
55	23.23	5:2 6:4	119 150	0.5114	246-34; 236-246	0.014	0.012
56	23.32	5:2	078 083 112 108	0.5134	345-3; 235-23; 2356-3; 2346-3	0.111	0.096
57	23.54	5:2 6:4	097 152 086	0.5183	245-23; 2356-26; 2345-2	0.359	0.309
58	23.71	5:2	081 087 117 125 115 145	0.5220	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.734	0.632
59	23.86	5:2	116 085 111	0.5253	23456; 234-24; 235-35	0.329	0.283
60	23.99	6:4	120 136	0.5282	245-35; 236-236	0.399	0.311
61	24.11	5:2	077 110 148	0.5308	34-34; 236-34; 235-246	1.253	1.079
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5390	234-23	0.288	0.248
64	24.78	6:3	151	0.5456	2356-25	1.011	0.788
65	24.91	5:1 6:3	124 135	0.5484	345-25; 235-236	0.166	0.133
66	24.97	6:3	144	0.5498	2346-25	0.364	0.284
67	25.02	5:1 6:3	107 109 147	0.5509	234-35; 235-34; 2356-24	0.092	0.076
68	25.12	5:1	123	0.5531	345-24	0.029	0.025
69	25.22	5:1 6:3	106 118 139 149	0.5553	2345-3; 245-34; 2346-24; 236-245	2.200	1.833
70	25.33	6:3	140		234-246	-	-
71	25.61	5:1 6:3	114 134 143	0.5638	2345-4; 2356-23; 2345-26	0.112	0.090
72	25.82	5:1 6:3	122 131 133 142	0.5685	345-23; 2346-23; 235-235; 23456-2	0.018	0.015
73	26.08	6:2	146 165 188	0.5742	235-245; 2356-35; 2356-246	0.226	0.176
74	26.21	5:1 6:3	105 132 161	0.5771	234-34; 234-236; 2346-35	0.736	0.595
75	26.36	6:2	153	0.5804	245-245	1.610	1.254
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141	0.5916	2345-25	1.000	0.779
78	26.94	7:4	179	0.5931	2356-236	0.887	0.631
79	27.16	6:2	137	0.5980	2345-24	0.046	0.036
80	27.29	6:2 7:4	130 176	0.6008	234-235; 2346-236	0.151	0.118
82	27.50	6:2	138 163 164	0.6055	234-245; 2356-34; 236-345	1.461	1.139
83	27.68	6:2	158 160 186	0.6094	2346-34; 23456-3; 23456-26	0.142	0.111
84	27.88	6:2	126 129	0.6138	345-34; 2345-23	0.009	0.007
85	28.21	7:3	166 178	0.6211	23456-4; 2356-235	0.675	0.481
87	28.49	7:3	175 159	0.6273	2346-235; 2345-35	0.133	0.095
88	28.64	7:3	182 187	0.6306	2345-246; 2356-245	2.125	1.512
89	28.75	6:2	128 162	0.6330	234-234; 235-345	0.049	0.038
90	28.94	7:3	183	0.6372	2346-245	0.969	0.689
91	29.20	6:1	167	0.6429	245-345	0.031	0.024
92	29.52	7:3	185	0.6499	23456-25	0.285	0.203
93	29.88	7:3	174 181	0.6579	2345-236; 23456-24	1.832	1.306
94	30.14	7:3	177	0.6636	2356-234	0.981	0.700
95	30.43	6:1 7:3	156 171	0.6700	2345-34; 2346-234	0.440	0.324
96	30.69	8:4	157 202	0.6757	234-345; 2356-2356	0.043	0.028
98	30.86	7:3	173	0.6794	23456-23	0.026	0.018
99	31.21	8:4	201	0.6871	2346-2356	0.221	0.145
100	31.44	7:2	172 204	0.6922	2345-235; 23456-246	0.320	0.228
101	31.74	8:4	192 197	0.6988	23456-35; 2346-2346	0.066	0.043
102	31.91	7:2	180	0.7026	2345-245	3.442	2.448
103	32.15	7:2	193	0.7078	2356-345	0.240	0.171
104	32.43	7:2	191	0.7140	2346-345	0.071	0.050
105	32.78	8:4	200 169	0.7217	23456-236; 345-345	0.261	0.171
106	33.89	7:2	170	0.7461	2345-234	0.715	0.509

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.14	7:2	<b>190</b>	0.7517	23456-34	0.245	0.174
108	34.98	8:3	<b>198</b>	0.7701	23456-235	0.072	0.047
109	35.22	8:3	<b>199</b>	0.7754	2345-2356	2.515	1.646
110	35.74	8:3	<b>196 203</b>	0.7869	2345-2346; 23456-245	2.532	1.657
111	36.88	7:1	<b>189</b>	0.8120	2345-345	0.016	0.012
112	38.35	8:3	<b>195</b>	0.8443	23456-234	0.309	0.202
113	38.87	9:4	<b>208</b>	0.8558	23456-2356	0.165	0.100
114	39.76	9:4	<b>207</b>	0.8754	23456-2346	0.059	0.036
115	41.12	8:2	<b>194</b>	0.9053	2345-2345	1.014	0.664
116	41.96	8:2	<b>205</b>	0.9238	23456-345	0.058	0.038
117	46.93	9:3	<b>206</b>	1.033	23456-2345	0.412	0.249
118	52.76	10:4	<b>209</b>	1.162	23456-23456	0.001	0.000

Concentration = 117 ng/mL

Total Nanomoles = 0.416

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

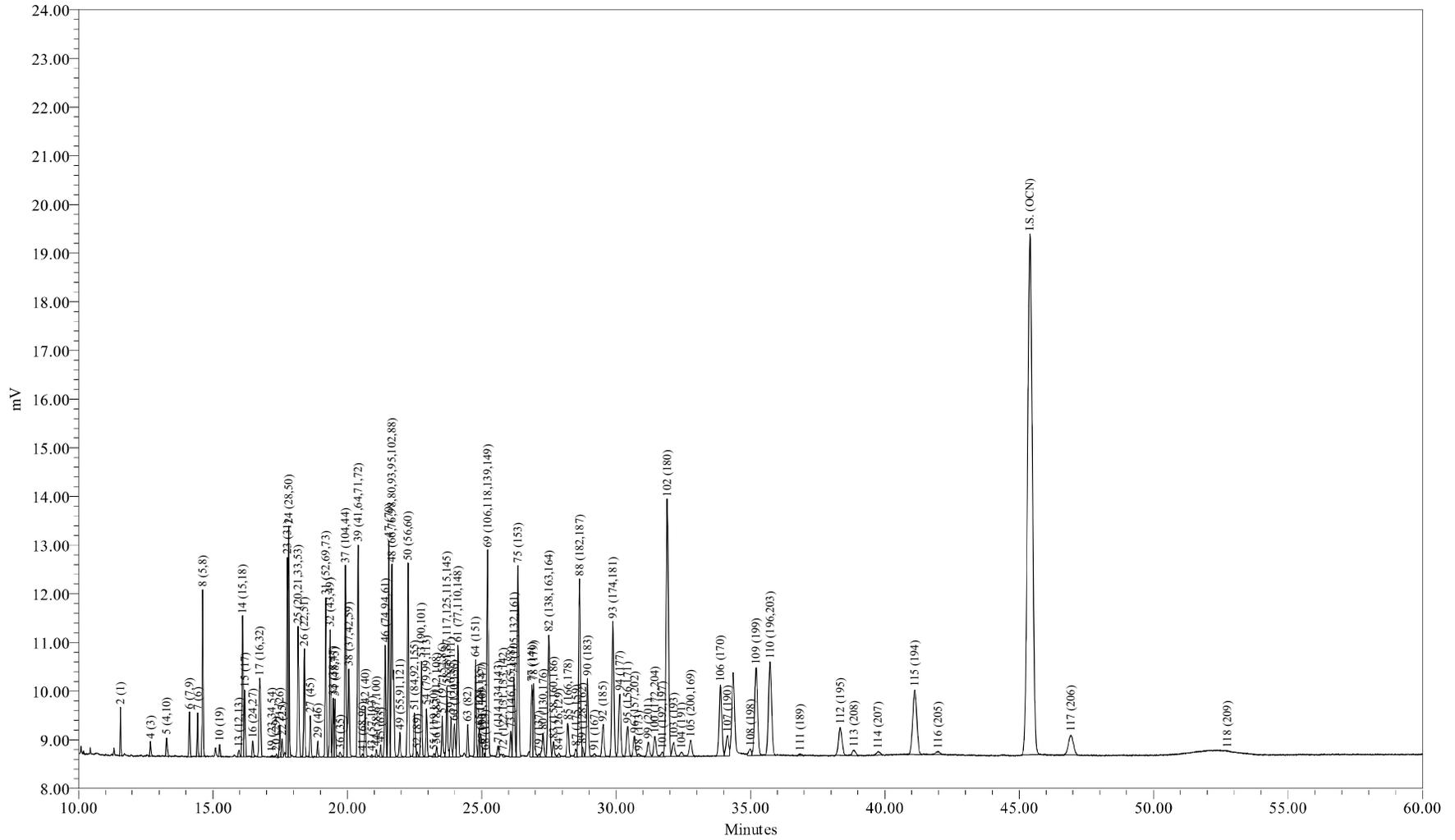
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



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www.nealab.com



Sample Name: CCCS0531C  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 6/1/2009 3:01:32 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_051909  
LIMS File ID: GC24-73-17

Sample Name: CCCS0531C

1 of 1

Northeast Analytical, Inc.  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 03:01:32  
 Lab Sample ID: CCCS0531C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-17

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 117 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.32	16.84
Di	12.18	15.25
Tri	17.99	19.59
Tetra	21.09	20.34
Penta	8.47	7.25
Hexa	8.06	6.32
Hepta	13.19	9.38
Octa	7.09	4.63
Nona	0.62	0.38
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.6341	37.9	30.8
A1242	23+24/31+28	5.8341	29.0	23.5
A1254SED	61/100	1.4772	7.34	
A1254BIO	69+75+82/149+153+138	6.1315		24.7
A1260	102/180	4.0051	19.9	16.2
A1268	115/194	1.1861	5.89	4.78

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 2.11

Total Cl / biphenyl Residue = 3.68

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 03:01:32  
 Lab Sample ID: CCCS0531C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-17

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.57	188.7	1756	7.63	40.5			
3	12.58	188.7		-	-			
4	12.68	188.7	670	5.61	29.8			
5	13.28	223.1	1098	2.08	9.34			
6	14.13	223.1	2665	0.740	3.32			
7	14.43	223.1	2069	1.17	5.22			
8	14.62	223.1	8724	9.39	42.1			
9	15.18	223.1		-	-			
10	15.25	257.5	648	0.235	0.911			
11	15.72	257.5		-	-			
12	15.78	223.1		-	-			
13	15.97	223.1	471	0.172	0.770			
14	16.10	249.0	8316	2.84	11.4			
15	16.19	257.5	3722	2.67	10.4			
16	16.48	257.5	946	0.209	0.811			
17	16.74	257.5	7182	2.92	11.3			
19	17.19	267.9	254	0.0862	0.322			
20	17.36	257.5	307	0.0618	0.240			
21	17.49	257.5	1922	0.588	2.28			
22	17.57	257.5	1134	0.265	1.03			
23	17.77	257.5	11180	2.82	10.9			
24	17.82	257.5	13407	3.02	11.7			
25	18.17	259.5	9778	2.86	11.0			
26	18.40	258.7	6511	1.99	7.70			
27	18.63	292.0	2581	0.709	2.43			
28	18.77	257.5		-	-			
29	18.90	292.0	1045	0.322	1.10			
30	19.03	257.5		-	-			
31	19.20	292.0	10021	3.77	12.9			
32	19.36	292.0	8294	1.56	5.35			
33	19.47	292.0	3736	0.494	1.69			
34	19.54	292.0	3621	0.664	2.27			
35	19.68	292.0		-	-			
36	19.73	257.5	460	0.210	0.815			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.93	292.0	12405	2.98	10.2			
38	20.06	272.4	7355	2.20	8.06			
39	20.40	292.0	13993	2.60	8.91			
41	20.57	326.4	254	0.0815	0.250			
42	20.66	292.0	3298	0.742	2.54			
43	20.91	298.9	212	0.0490	0.164			
44	21.08	298.9	510	0.0787	0.263			
45	21.24	292.0	798	0.126	0.431			
46	21.41	292.0	7531	0.942	3.23			
47	21.54	292.0	14096	2.23	7.63			
48	21.66	293.5	18695	4.43	15.1			
49	21.96	324.7	1913	0.385	1.18			
50	22.26	292.0	12897	2.00	6.84			
51	22.50	326.4	3709	1.52	4.66			
52	22.60	326.4	406	0.0821	0.252			
53	22.76	326.4	6739	1.28	3.93			
54	22.95	326.4	3353	0.409	1.25			
55	23.23	326.4	287	0.0227	0.0696			
56	23.32	326.4	715	0.144	0.442			
57	23.53	326.4	2977	0.420	1.29			
58	23.71	326.4	5114	0.857	2.63			
59	23.86	326.4	2919	0.397	1.22			
60	23.99	360.9	2862	0.474	1.31			
61	24.11	326.4	7784	1.48	4.53			
62	24.39	360.9	-	-	-			
63	24.48	326.4	2222	0.339	1.04			
64	24.77	360.9	6876	1.19	3.29			
65	24.91	350.5	1996	0.195	0.555			
66	24.97	360.9	1664	0.451	1.25			
67	25.03	336.8	558	0.111	0.330			
68	25.12	326.4	173	0.0292	0.0893			
69	25.22	337.5	16406	2.56	7.58			
70	25.33	360.9	-	-	-			
71	25.61	347.8	1033	0.143	0.411			
72	25.80	336.8	208	0.0183	0.0543			
73	26.08	360.9	1890	0.267	0.741			
74	26.20	347.8	7468	0.854	2.46			
75	26.35	360.9	14807	1.88	5.20			
76	26.47	360.9	-	-	-			
77	26.87	360.9	5658	1.14	3.16			
78	26.93	395.3	6159	1.04	2.63			
79	27.13	360.9	283	0.0770	0.213			
80	27.28	360.9	2385	0.175	0.485			
82	27.50	360.9	12744	1.70	4.71			
83	27.67	360.9	1482	0.171	0.474			
84	27.87	360.9	393	0.0111	0.0307			
85	28.21	395.3	3179	0.794	2.01			
87	28.50	395.3	718	0.162	0.410			
88	28.64	395.3	17742	2.46	6.22			
89	28.75	360.9	678	0.0681	0.189			
90	28.94	395.3	7892	1.13	2.86			
91	29.19	360.9	364	0.0348	0.0963			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.52	394.3	3401	0.332	0.842			
93	29.88	394.3	14930	2.13	5.39			
94	30.14	394.3	7146	1.14	2.90			
95	30.43	382.2	3491	0.503	1.32			
96	30.68	429.8	2346	0.0490	0.114			
98	30.84	395.3	282	0.0312	0.0790			
99	31.20	429.8	1852	0.279	0.650			
100	31.44	395.3	2509	0.393	0.994			
101	31.72	429.8	502	0.0927	0.216			
102	31.90	395.3	33084	4.01	10.1			
103	32.15	395.3	1929	0.292	0.738			
104	32.44	395.3	609	0.0957	0.242			
105	32.78	429.8	2214	0.306	0.711			
106	33.88	395.3	10427	0.824	2.08			
107	34.15	395.3	2955	0.284	0.719			
108	35.00	429.8	954	0.0781	0.182			
109	35.21	429.8	14287	2.94	6.84			
110	35.73	429.8	15613	2.95	6.86			
111	36.85	395.3	242	0.0185	0.0469			
112	38.34	429.8	5170	0.358	0.833			
113	38.85	464.2	989	0.197	0.424			
114	39.75	464.2	672	0.0655	0.141			
115	41.11	429.8	14008	1.19	2.76			
116	41.98	429.8	620	0.0634	0.147			
117	46.92	464.2	5186	0.467	1.01			
118	52.74	498.6	15	0.000960	0.00193			

Total Concentration = 117 ng/mL

Total Nanomoles = 0.417

Average Molecular Weight = 280.9

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.40 minutes

Internal Standard Peak Area = 134047.8

Northeast Analytical, Inc.  
2190 Technology Drive  
Schenectady, NY 12308  
(518) 346-4592 Fax (518) 381-6055

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 03:01:32  
 Lab Sample ID: CCCS0531C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-17

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	6.520	9.706
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003	0.2793	4	4.795	7.138
5	13.28	2:2	004 010	0.2925	2-2; 26	1.780	2.241
6	14.13	2:1	007 009	0.3112	24; 25	0.632	0.796
7	14.43	2:1	006	0.3178	2-3	0.995	1.253
8	14.62	2:1	005 008	0.3220	23; 2-4	8.023	10.102
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3359	26-2	0.200	0.219
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.97	2:0	012 013	0.3518	34; 3-4	0.147	0.185
14	16.10	2:0 3:2	015 018	0.3546	4-4; 25-2	2.422	2.732
15	16.19	3:2	017	0.3566	24-2	2.281	2.488
16	16.48	3:2	024 027	0.3630	236; 26-3	0.178	0.195
17	16.74	3:2	016 032	0.3687	23-2; 26-4	2.493	2.720
19	17.19	3:1 4:4	023 034 054	0.3786	235; 35-2; 26-26	0.074	0.077
20	17.36	3:1	029	0.3824	245	0.053	0.058
21	17.49	3:1	026	0.3852	25-3	0.502	0.548
22	17.57	3:1	025	0.3870	24-3	0.227	0.247
23	17.77	3:1	031	0.3914	25-4	2.406	2.624
24	17.82	3:1 4:3	028 050	0.3925	24-4; 246-2	2.577	2.811
25	18.17	3:1 4:3	020 021 033 053	0.4002	23-3; 234; 34-2; 25-26	2.441	2.642
26	18.40	3:1 4:3	022 051	0.4053	23-4; 24-26	1.701	1.847
27	18.63	4:3	045	0.4104	236-2	0.605	0.582
28	18.77	3:0	036		35-3	-	-
29	18.90	4:3	046	0.4163	23-26	0.275	0.264
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4229	25-25; 246-3; 26-35	3.217	3.095
32	19.36	4:2	043 049	0.4264	235-2; 24-25	1.333	1.283
33	19.47	4:2	038 047	0.4289	345; 24-24	0.422	0.406
34	19.54	4:2	048 075	0.4304	245-2; 246-4	0.567	0.546
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.73	3:0	035	0.4346	34-3	0.179	0.195
37	19.93	5:4 4:2	104 044	0.4390	246-26; 23-25	2.546	2.449
38	20.06	3:0 4:2	037 042 059	0.4419	34-4; 23-24; 236-3	1.876	1.934
39	20.40	4:2	041 064 071 072	0.4493	234-2; 236-4; 26-34; 25-35	2.223	2.139

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.57	5:4	068 096	0.4531	24-35; 236-26	0.070	0.060
42	20.66	4:2	040	0.4551	23-23	0.633	0.609
43	20.91	4:1 5:3	057 103	0.4606	235-3; 246-25	0.042	0.039
44	21.08	4:1 5:3	058 067 100	0.4643	23-35; 245-3; 246-24	0.067	0.063
45	21.24	4:1	063	0.4678	235-4	0.108	0.104
46	21.41	4:1 5:3	074 094 061	0.4716	245-4; 235-26; 2345	0.805	0.774
47	21.54	4:1	070	0.4744	25-34	1.903	1.831
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4771	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.785	3.622
49	21.96	4:1 5:3	055 091 121	0.4837	234-3; 236-24; 246-35	0.329	0.284
50	22.26	4:1	056 060	0.4903	23-34; 234-4	1.707	1.642
51	22.50	5:3 6:4	084 092 155	0.4956	236-23; 235-25; 246-246	1.298	1.117
52	22.60	5:3	089	0.4978	234-26	0.070	0.060
53	22.76	5:2	090 101	0.5013	235-24; 245-25	1.096	0.943
54	22.95	5:2	079 099 113	0.5055	34-35; 245-24; 236-35	0.349	0.301
55	23.23	5:2 6:4	119 150	0.5117	246-34; 236-246	0.019	0.017
56	23.32	5:2	078 083 112 108	0.5137	345-3; 235-23; 2356-3; 2346-3	0.123	0.106
57	23.53	5:2 6:4	097 152 086	0.5183	245-23; 2356-26; 2345-2	0.359	0.309
58	23.71	5:2	081 087 117 125 115 145	0.5222	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.732	0.630
59	23.86	5:2	116 085 111	0.5256	23456; 234-24; 235-35	0.339	0.292
60	23.99	6:4	120 136	0.5284	245-35; 236-236	0.405	0.315
61	24.11	5:2	077 110 148	0.5311	34-34; 236-34; 235-246	1.262	1.086
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5392	234-23	0.290	0.250
64	24.77	6:3	151	0.5456	2356-25	1.015	0.790
65	24.91	5:1 6:3	124 135	0.5487	345-25; 235-236	0.166	0.133
66	24.97	6:3	144	0.5500	2346-25	0.385	0.300
67	25.03	5:1 6:3	107 109 147	0.5513	234-35; 235-34; 2356-24	0.095	0.079
68	25.12	5:1	123	0.5533	345-24	0.025	0.021
69	25.22	5:1 6:3	106 118 139 149	0.5555	2345-3; 245-34; 2346-24; 236-245	2.184	1.818
70	25.33	6:3	140		234-246	-	-
71	25.61	5:1 6:3	114 134 143	0.5641	2345-4; 2356-23; 2345-26	0.122	0.099
72	25.80	5:1 6:3	122 131 133 142	0.5683	345-23; 2346-23; 235-235; 23456-2	0.016	0.013
73	26.08	6:2	146 165 188	0.5744	235-245; 2356-35; 2356-246	0.228	0.178
74	26.20	5:1 6:3	105 132 161	0.5771	234-34; 234-236; 2346-35	0.729	0.589
75	26.35	6:2	153	0.5804	245-245	1.603	1.247
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141	0.5919	2345-25	0.974	0.758
78	26.93	7:4	179	0.5932	2356-236	0.889	0.632
79	27.13	6:2	137	0.5976	2345-24	0.066	0.051
80	27.28	6:2 7:4	130 176	0.6009	234-235; 2346-236	0.149	0.116
82	27.50	6:2	138 163 164	0.6057	234-245; 2356-34; 236-345	1.451	1.129
83	27.67	6:2	158 160 186	0.6095	2346-34; 23456-3; 23456-26	0.146	0.114
84	27.87	6:2	126 129	0.6139	345-34; 2345-23	0.009	0.007
85	28.21	7:3	166 178	0.6214	23456-4; 2356-235	0.678	0.482
87	28.50	7:3	175 159	0.6278	2346-235; 2345-35	0.138	0.098
88	28.64	7:3	182 187	0.6308	2345-246; 2356-245	2.099	1.492
89	28.75	6:2	128 162	0.6333	234-234; 235-345	0.058	0.045
90	28.94	7:3	183	0.6374	2346-245	0.967	0.687
91	29.19	6:1	167	0.6430	245-345	0.030	0.023
92	29.52	7:3	185	0.6502	23456-25	0.283	0.202
93	29.88	7:3	174 181	0.6581	2345-236; 23456-24	1.816	1.293
94	30.14	7:3	177	0.6639	2356-234	0.975	0.695
95	30.43	6:1 7:3	156 171	0.6703	2345-34; 2346-234	0.430	0.316
96	30.68	8:4	157 202	0.6758	234-345; 2356-2356	0.042	0.027
98	30.84	7:3	173	0.6793	23456-23	0.027	0.019
99	31.20	8:4	201	0.6872	2346-2356	0.239	0.156
100	31.44	7:2	172 204	0.6925	2345-235; 23456-246	0.336	0.239
101	31.72	8:4	192 197	0.6987	23456-35; 2346-2346	0.079	0.052
102	31.90	7:2	180	0.7026	2345-245	3.421	2.431
103	32.15	7:2	193	0.7081	2356-345	0.249	0.177
104	32.44	7:2	191	0.7145	2346-345	0.082	0.058
105	32.78	8:4	200 169	0.7220	23456-236; 345-345	0.261	0.171
106	33.88	7:2	170	0.7463	2345-234	0.704	0.500

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>	0.7522	23456-34	0.243	0.172
108	35.00	8:3	<b>198</b>	0.7709	23456-235	0.067	0.044
109	35.21	8:3	<b>199</b>	0.7756	2345-2356	2.512	1.642
110	35.73	8:3	<b>196 203</b>	0.7870	2345-2346; 23456-245	2.519	1.646
111	36.85	7:1	<b>189</b>	0.8117	2345-345	0.016	0.011
112	38.34	8:3	<b>195</b>	0.8445	23456-234	0.306	0.200
113	38.85	9:4	<b>208</b>	0.8557	23456-2356	0.168	0.102
114	39.75	9:4	<b>207</b>	0.8756	23456-2346	0.056	0.034
115	41.11	8:2	<b>194</b>	0.9055	2345-2345	1.013	0.662
116	41.98	8:2	<b>205</b>	0.9247	23456-345	0.054	0.035
117	46.92	9:3	<b>206</b>	1.033	23456-2345	0.399	0.242
118	52.74	10:4	<b>209</b>	1.162	23456-23456	0.001	0.000

Concentration = 117 ng/mL

Total Nanomoles = 0.417

Average Molecular Weight = 280.9

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

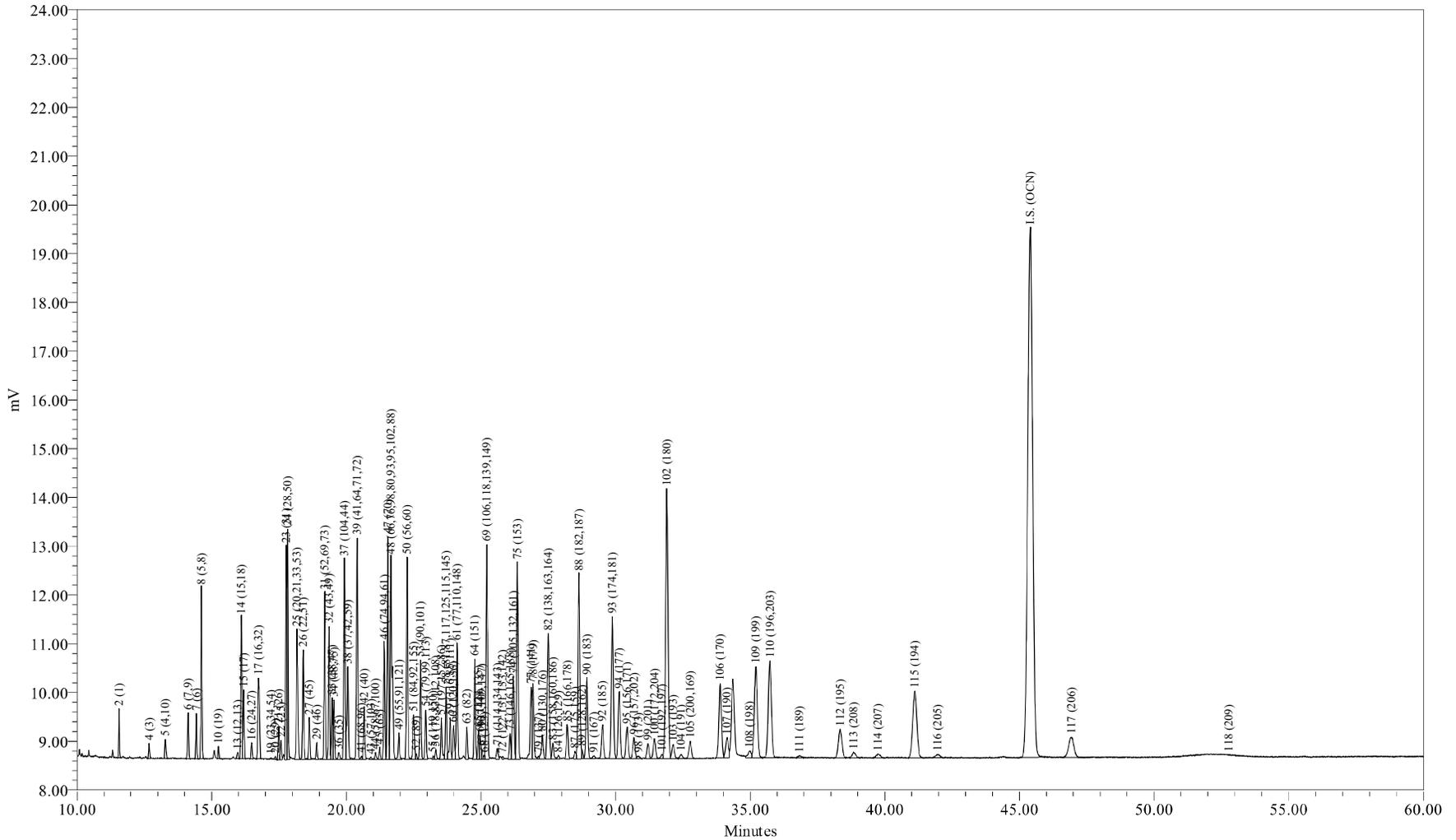
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



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Sample Name: CCCS0531D  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 6/1/2009 5:12:09 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-19

Sample Name: CCCS0531D

1 of 1

Northeast Analytical, Inc.  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 05:12:09  
 Lab Sample ID: CCCS0531D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-19

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 117 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.14	16.60
Di	12.16	15.25
Tri	18.01	19.64
Tetra	21.20	20.48
Penta	8.44	7.22
Hexa	8.06	6.33
Hepta	13.19	9.40
Octa	7.15	4.68
Nona	0.66	0.40
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.5175	37.5	30.5
A1242	23+24/31+28	5.8368	29.1	23.7
A1254SED	61/100	1.4758	7.37	
A1254BIO	69+75+82/149+153+138	6.1040		24.8
A1260	102/180	4.0011	20.0	16.2
A1268	115/194	1.1978	5.98	4.86

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 2.12

Total Cl / biphenyl Residue = 3.69

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 05:12:09  
 Lab Sample ID: CCCS0531D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-73-19

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.57	188.7	1784	7.52	39.8			
3	12.58	188.7		-	-			
4	12.68	188.7	676	5.50	29.1			
5	13.28	223.1	1106	2.03	9.12			
6	14.13	223.1	2715	0.731	3.28			
7	14.43	223.1	2185	1.19	5.35			
8	14.62	223.1	8996	9.39	42.1			
9	15.18	223.1		-	-			
10	15.25	257.5	611	0.215	0.833			
11	15.72	257.5		-	-			
12	15.78	223.1		-	-			
13	15.97	223.1	455	0.161	0.723			
14	16.10	249.0	8529	2.82	11.3			
15	16.19	257.5	3818	2.66	10.3			
16	16.48	257.5	943	0.202	0.783			
17	16.74	257.5	7275	2.87	11.1			
19	17.20	267.9	57	0.0189	0.0705			
20	17.37	257.5	230	0.0448	0.174			
21	17.49	257.5	1956	0.580	2.25			
22	17.57	257.5	1150	0.261	1.01			
23	17.77	257.5	11945	2.92	11.3			
24	17.82	257.5	13379	2.92	11.3			
25	18.17	259.5	10185	2.89	11.1			
26	18.40	258.7	6866	2.04	7.87			
27	18.63	292.0	2621	0.698	2.39			
28	18.77	257.5		-	-			
29	18.90	292.0	1091	0.325	1.11			
30	19.03	257.5		-	-			
31	19.20	292.0	10387	3.79	13.0			
32	19.36	292.0	8555	1.56	5.35			
33	19.48	292.0	3871	0.496	1.70			
34	19.54	292.0	3810	0.678	2.32			
35	19.68	292.0		-	-			
36	19.73	257.5	642	0.284	1.10			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.93	292.0	12848	2.99	10.2			
38	20.06	272.4	7678	2.22	8.16			
39	20.40	292.0	14524	2.62	8.97			
41	20.56	326.4	255	0.0794	0.243			
42	20.66	292.0	3397	0.740	2.54			
43	20.92	298.9	208	0.0465	0.156			
44	21.08	298.9	583	0.0871	0.291			
45	21.24	292.0	845	0.129	0.443			
46	21.41	292.0	7735	0.938	3.21			
47	21.54	292.0	14541	2.23	7.63			
48	21.66	293.5	19360	4.45	15.2			
49	21.96	324.7	1940	0.378	1.16			
50	22.26	292.0	13362	2.01	6.87			
51	22.50	326.4	3873	1.54	4.71			
52	22.60	326.4	379	0.0742	0.227			
53	22.76	326.4	6924	1.28	3.91			
54	22.95	326.4	3429	0.405	1.24			
55	23.23	326.4	242	0.0185	0.0568			
56	23.32	326.4	683	0.134	0.410			
57	23.53	326.4	3078	0.421	1.29			
58	23.71	326.4	4943	0.802	2.46			
59	23.86	326.4	3230	0.426	1.31			
60	23.99	360.9	2871	0.461	1.28			
61	24.11	326.4	8022	1.48	4.52			
62	24.39	360.9	-	-	-			
63	24.48	326.4	2252	0.334	1.02			
64	24.77	360.9	7055	1.18	3.28			
65	24.91	350.5	2171	0.205	0.586			
66	24.97	360.9	1584	0.416	1.15			
67	25.03	336.8	472	0.0908	0.270			
68	25.13	326.4	242	0.0396	0.121			
69	25.22	337.5	16837	2.54	7.54			
70	25.33	360.9	-	-	-			
71	25.61	347.8	1000	0.134	0.386			
72	25.80	336.8	214	0.0183	0.0543			
73	26.08	360.9	1938	0.266	0.736			
74	26.20	347.8	7696	0.853	2.45			
75	26.36	360.9	15244	1.87	5.19			
76	26.47	360.9	-	-	-			
77	26.87	360.9	6253	1.22	3.39			
78	26.94	395.3	6317	1.04	2.62			
79	27.14	360.9	205	0.0538	0.149			
80	27.28	360.9	2448	0.174	0.482			
82	27.50	360.9	13069	1.69	4.68			
83	27.67	360.9	1522	0.170	0.471			
84	27.88	360.9	388	0.0106	0.0294			
85	28.21	395.3	3230	0.782	1.98			
87	28.49	395.3	690	0.151	0.382			
88	28.64	395.3	18295	2.46	6.21			
89	28.76	360.9	596	0.0581	0.161			
90	28.93	395.3	8133	1.13	2.86			
91	29.19	360.9	410	0.0380	0.105			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.52	394.3	3525	0.333	0.846			
93	29.88	394.3	15469	2.14	5.42			
94	30.14	394.3	7422	1.15	2.92			
95	30.43	382.2	3745	0.523	1.37			
96	30.68	429.8	2502	0.0506	0.118			
98	30.84	395.3	404	0.0436	0.110			
99	31.20	429.8	1794	0.262	0.610			
100	31.44	395.3	2506	0.381	0.963			
101	31.73	429.8	525	0.0940	0.219			
102	31.90	395.3	34096	4.00	10.1			
103	32.14	395.3	1943	0.285	0.720			
104	32.44	395.3	580	0.0883	0.223			
105	32.78	429.8	2264	0.303	0.705			
106	33.89	395.3	10573	0.809	2.05			
107	34.14	395.3	2952	0.275	0.696			
108	34.97	429.8	1193	0.0948	0.221			
109	35.21	429.8	14765	2.95	6.86			
110	35.74	429.8	16210	2.97	6.91			
111	36.83	395.3	357	0.0267	0.0676			
112	38.34	429.8	5396	0.362	0.843			
113	38.84	464.2	1057	0.204	0.439			
114	39.74	464.2	811	0.0769	0.166			
115	41.11	429.8	14591	1.20	2.79			
116	41.96	429.8	701	0.0694	0.161			
117	46.94	464.2	5632	0.492	1.06			
118	52.78	498.6	16	0.000969	0.00194			

Total Concentration = 117 ng/mL

Total Nanomoles = 0.415

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.41 minutes

Internal Standard Peak Area = 138280.8

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
Sample Description: CCC Std 122 ng/mL  
Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
Date Acquired: 06/01/2009 05:12:09  
Lab Sample ID: CCCS0531D  
LRF ID: CCC Std 122 ng/mL  
Lab File ID: GC24-73-19

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	6.435	9.591
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003	0.2792	4	4.705	7.012
5	13.28	2:2	004 010	0.2924	2-2; 26	1.742	2.196
6	14.13	2:1	007 009	0.3112	24; 25	0.626	0.789
7	14.43	2:1	006	0.3178	2-3	1.021	1.287
8	14.62	2:1	005 008	0.3220	23; 2-4	8.038	10.132
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	0.184	0.201
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.97	2:0	012 013	0.3517	34; 3-4	0.138	0.174
14	16.10	2:0 3:2	015 018	0.3545	4-4; 25-2	2.413	2.725
15	16.19	3:2	017	0.3565	24-2	2.273	2.483
16	16.48	3:2	024 027	0.3629	236; 26-3	0.173	0.189
17	16.74	3:2	016 032	0.3686	23-2; 26-4	2.453	2.679
19	17.20	3:1 4:4	023 034 054	0.3788	235; 35-2; 26-26	0.016	0.017
20	17.37	3:1	029	0.3825	245	0.038	0.042
21	17.49	3:1	026	0.3852	25-3	0.496	0.542
22	17.57	3:1	025	0.3869	24-3	0.223	0.244
23	17.77	3:1	031	0.3913	25-4	2.499	2.729
24	17.82	3:1 4:3	028 050	0.3924	24-4; 246-2	2.497	2.727
25	18.17	3:1 4:3	020 021 033 053	0.4001	23-3; 234; 34-2; 25-26	2.470	2.677
26	18.40	3:1 4:3	022 051	0.4052	23-4; 24-26	1.744	1.895
27	18.63	4:3	045	0.4103	236-2	0.597	0.575
28	18.77	3:0	036		35-3	-	-
29	18.90	4:3	046	0.4162	23-26	0.279	0.268
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4228	25-25; 246-3; 26-35	3.240	3.121
32	19.36	4:2	043 049	0.4263	235-2; 24-25	1.336	1.287
33	19.48	4:2	038 047	0.4290	345; 24-24	0.425	0.409
34	19.54	4:2	048 075	0.4303	245-2; 246-4	0.580	0.559
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.73	3:0	035	0.4345	34-3	0.243	0.265
37	19.93	5:4 4:2	104 044	0.4389	246-26; 23-25	2.562	2.467
38	20.06	3:0 4:2	037 042 059	0.4418	34-4; 23-24; 236-3	1.903	1.964
39	20.40	4:2	041 064 071 072	0.4492	234-2; 236-4; 26-34; 25-35	2.242	2.159

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.56	5:4	068 096	0.4528	24-35; 236-26	0.068	0.059
42	20.66	4:2	040	0.4550	23-23	0.634	0.610
43	20.92	4:1 5:3	057 103	0.4607	235-3; 246-25	0.040	0.037
44	21.08	4:1 5:3	058 067 100	0.4642	23-35; 245-3; 246-24	0.075	0.070
45	21.24	4:1	063	0.4677	235-4	0.111	0.107
46	21.41	4:1 5:3	074 094 061	0.4715	245-4; 235-26; 2345	0.803	0.773
47	21.54	4:1	070	0.4743	25-34	1.907	1.837
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4770	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.808	3.649
49	21.96	4:1 5:3	055 091 121	0.4836	234-3; 236-24; 246-35	0.324	0.280
50	22.26	4:1	056 060	0.4902	23-34; 234-4	1.718	1.655
51	22.50	5:3 6:4	084 092 155	0.4955	236-23; 235-25; 246-246	1.317	1.135
52	22.60	5:3	089	0.4977	234-26	0.064	0.055
53	22.76	5:2	090 101	0.5012	235-24; 245-25	1.093	0.942
54	22.95	5:2	079 099 113	0.5054	34-35; 245-24; 236-35	0.347	0.299
55	23.23	5:2 6:4	119 150	0.5116	246-34; 236-246	0.016	0.014
56	23.32	5:2	078 083 112 108	0.5135	345-3; 235-23; 2356-3; 2346-3	0.114	0.099
57	23.53	5:2 6:4	097 152 086	0.5182	245-23; 2356-26; 2345-2	0.361	0.311
58	23.71	5:2	081 087 117 125 115 145	0.5221	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.687	0.592
59	23.86	5:2	116 085 111	0.5254	23456; 234-24; 235-35	0.365	0.314
60	23.99	6:4	120 136	0.5283	245-35; 236-236	0.394	0.307
61	24.11	5:2	077 110 148	0.5309	34-34; 236-34; 235-246	1.263	1.088
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5391	234-23	0.285	0.246
64	24.77	6:3	151	0.5455	2356-25	1.012	0.789
65	24.91	5:1 6:3	124 135	0.5486	345-25; 235-236	0.176	0.141
66	24.97	6:3	144	0.5499	2346-25	0.356	0.278
67	25.03	5:1 6:3	107 109 147	0.5512	234-35; 235-34; 2356-24	0.078	0.065
68	25.13	5:1	123	0.5534	345-24	0.034	0.029
69	25.22	5:1 6:3	106 118 139 149	0.5554	2345-3; 245-34; 2346-24; 236-245	2.177	1.814
70	25.33	6:3	140		234-246	-	-
71	25.61	5:1 6:3	114 134 143	0.5640	2345-4; 2356-23; 2345-26	0.115	0.093
72	25.80	5:1 6:3	122 131 133 142	0.5682	345-23; 2346-23; 235-235; 23456-2	0.016	0.013
73	26.08	6:2	146 165 188	0.5743	235-245; 2356-35; 2356-246	0.228	0.177
74	26.20	5:1 6:3	105 132 161	0.5770	234-34; 234-236; 2346-35	0.730	0.590
75	26.36	6:2	153	0.5805	245-245	1.603	1.249
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141	0.5917	2345-25	1.046	0.815
78	26.94	7:4	179	0.5933	2356-236	0.886	0.631
79	27.14	6:2	137	0.5977	2345-24	0.046	0.036
80	27.28	6:2 7:4	130 176	0.6007	234-235; 2346-236	0.149	0.116
82	27.50	6:2	138 163 164	0.6056	234-245; 2356-34; 236-345	1.445	1.126
83	27.67	6:2	158 160 186	0.6093	2346-34; 23456-3; 23456-26	0.146	0.113
84	27.88	6:2	126 129	0.6140	345-34; 2345-23	0.009	0.007
85	28.21	7:3	166 178	0.6212	23456-4; 2356-235	0.669	0.476
87	28.49	7:3	175 159	0.6274	2346-235; 2345-35	0.129	0.092
88	28.64	7:3	182 187	0.6307	2345-246; 2356-245	2.103	1.496
89	28.76	6:2	128 162	0.6333	234-234; 235-345	0.050	0.039
90	28.93	7:3	183	0.6371	2346-245	0.968	0.689
91	29.19	6:1	167	0.6428	245-345	0.033	0.025
92	29.52	7:3	185	0.6501	23456-25	0.285	0.204
93	29.88	7:3	174 181	0.6580	2345-236; 23456-24	1.828	1.304
94	30.14	7:3	177	0.6637	2356-234	0.984	0.702
95	30.43	6:1 7:3	156 171	0.6701	2345-34; 2346-234	0.448	0.330
96	30.68	8:4	157 202	0.6756	234-345; 2356-2356	0.043	0.028
98	30.84	7:3	173	0.6791	23456-23	0.037	0.027
99	31.20	8:4	201	0.6871	2346-2356	0.224	0.147
100	31.44	7:2	172 204	0.6924	2345-235; 23456-246	0.326	0.232
101	31.73	8:4	192 197	0.6987	23456-35; 2346-2346	0.080	0.053
102	31.90	7:2	180	0.7025	2345-245	3.425	2.437
103	32.14	7:2	193	0.7078	2356-345	0.244	0.173
104	32.44	7:2	191	0.7144	2346-345	0.076	0.054
105	32.78	8:4	200 169	0.7219	23456-236; 345-345	0.259	0.170
106	33.89	7:2	170	0.7463	2345-234	0.693	0.493

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.14	7:2	<b>190</b>	0.7518	23456-34	0.236	0.168
108	34.97	8:3	<b>198</b>	0.7701	23456-235	0.081	0.053
109	35.21	8:3	<b>199</b>	0.7754	2345-2356	2.522	1.650
110	35.74	8:3	<b>196 203</b>	0.7871	2345-2346; 23456-245	2.540	1.662
111	36.83	7:1	<b>189</b>	0.8111	2345-345	0.023	0.016
112	38.34	8:3	<b>195</b>	0.8443	23456-234	0.310	0.203
113	38.84	9:4	<b>208</b>	0.8553	23456-2356	0.175	0.106
114	39.74	9:4	<b>207</b>	0.8751	23456-2346	0.066	0.040
115	41.11	8:2	<b>194</b>	0.9053	2345-2345	1.025	0.671
116	41.96	8:2	<b>205</b>	0.9240	23456-345	0.059	0.039
117	46.94	9:3	<b>206</b>	1.034	23456-2345	0.421	0.255
118	52.78	10:4	<b>209</b>	1.162	23456-23456	0.001	0.000

Concentration = 117 ng/mL

Total Nanomoles = 0.415

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



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Sample Name:	CCCS0531A	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	05/31/2009 10:22:41	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 13:17:40
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_051909	Current Time:	13:22:51
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC24-73-2

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.57	1776	7.515	7.515
2	4 (3)	12.68	578	4.720	4.720
3	5 (4,10)	13.28	1081	1.996	1.996
4	6 (7,9)	14.13	2676	0.723	0.723
5	7 (6)	14.43	2143	1.174	1.174
6	8 (5,8)	14.62	9003	9.433	9.433
7	10 (19)	15.25	598	0.211	0.211
8	13 (12,13)	15.97	506	0.180	0.180
9	14 (15,18)	16.11	8490	2.817	2.817
10	15 (17)	16.19	3823	2.669	2.669
11	16 (24,27)	16.49	933	0.200	0.200
12	17 (16,32)	16.74	7314	2.892	2.892
13	19 (23,34,54)	17.18	73	0.024	0.024
14	20 (29)	17.36	190	0.037	0.037
15	21 (26)	17.49	1917	0.570	0.570
16	22 (25)	17.58	1068	0.243	0.243
17	23 (31)	17.77	11536	2.828	2.828
18	24 (28,50)	17.82	13520	2.960	2.960
19	25 (20,21,33,53)	18.17	9934	2.824	2.824
20	26 (22,51)	18.40	6571	1.955	1.955
21	27 (45)	18.63	2567	0.686	0.686
22	29 (46)	18.90	989	0.296	0.296
23	31 (52,69,73)	19.20	10171	3.719	3.719
24	32 (43,49)	19.36	8355	1.530	1.530
25	33 (38,47)	19.48	3664	0.471	0.471
26	34 (48,75)	19.54	3633	0.648	0.648
27	36 (35)	19.76	146	0.065	0.065
28	37 (104,44)	19.93	12733	2.977	2.977
29	38 (37,42,59)	20.06	7252	2.106	2.106
30	39 (41,64,71,72)	20.40	14280	2.584	2.584
31	41 (68,96)	20.57	168	0.053	0.053
32	42 (40)	20.67	3251	0.711	0.711
33	43 (57,103)	20.91	133	0.030	0.030

CCCS0531A

1 of 3

Print Date: 06/01/2009  
Nea Lims Version : 4.4.4.1

34	44 (58,67,100)	21.08	489	0.073	0.073
35	45 (63)	21.24	758	0.116	0.116
36	46 (74,94,61)	21.41	7617	0.927	0.927
37	47 (70)	21.55	14470	2.226	2.226
38	48 (66,76,98,80,93,95,	21.66	19112	4.407	4.407
39	49 (55,91,121)	21.96	1661	0.324	0.324
40	50 (56,60)	22.26	13334	2.011	2.011
41	51 (84,92,155)	22.50	3733	1.489	1.489
42	52 (89)	22.60	327	0.064	0.064
43	53 (90,101)	22.76	6855	1.269	1.269
44	54 (79,99,113)	22.95	3348	0.397	0.397
45	55 (119,150)	23.22	185	0.014	0.014
46	56 (78,83,112,108)	23.32	660	0.130	0.130
47	57 (97,152,86)	23.53	3048	0.419	0.419
48	58 (81,87,117,125,115)	23.71	5225	0.852	0.852
49	59 (116,85,111)	23.86	2842	0.376	0.376
50	60 (120,136)	23.99	2831	0.456	0.456
51	61 (77,110,148)	24.11	7865	1.452	1.452
52	63 (82)	24.48	2208	0.328	0.328
53	64 (151)	24.78	6922	1.164	1.164
54	65 (124,135)	24.91	2043	0.194	0.194
55	66 (144)	24.97	1528	0.403	0.403
56	67 (107,109,147)	25.03	533	0.103	0.103
57	68 (123)	25.13	184	0.030	0.030
58	69 (106,118,139,149)	25.22	16738	2.538	2.538
59	71 (114,134,143)	25.61	792	0.107	0.107
60	72 (122,131,133,142)	25.82	121	0.010	0.010
61	73 (146,165,188)	26.09	1776	0.245	0.245
62	74 (105,132,161)	26.21	7536	0.838	0.838
63	75 (153)	26.36	15019	1.851	1.851
64	77 (141)	26.87	5731	1.123	1.123
65	78 (179)	26.94	6241	1.027	1.027
66	79 (137)	27.14	166	0.044	0.044
67	80 (130,176)	27.29	2313	0.165	0.165
68	82 (138,163,164)	27.50	13019	1.688	1.688
69	83 (158,160,186)	27.68	1427	0.160	0.160
70	84 (126,129)	27.88	300	0.008	0.008
71	85 (166,178)	28.21	3187	0.774	0.774
72	87 (175,159)	28.50	653	0.144	0.144
73	88 (182,187)	28.65	18262	2.462	2.462
74	89 (128,162)	28.74	698	0.068	0.068
75	90 (183)	28.94	8100	1.131	1.131
76	91 (167)	29.20	366	0.034	0.034
77	92 (185)	29.52	3504	0.333	0.333
78	93 (174,181)	29.88	15455	2.142	2.142
79	94 (177)	30.14	7287	1.133	1.133
80	95 (156,171)	30.43	3607	0.506	0.506
81	96 (157,202)	30.68	2364	0.048	0.048
82	98 (173)	30.84	259	0.028	0.028
83	99 (201)	31.21	1737	0.255	0.255
84	100 (172,204)	31.45	2438	0.371	0.371

85	101 (192,197)	31.74	479	0.086	0.086
86	102 (180)	31.91	34182	4.027	4.027
87	103 (193)	32.15	1927	0.283	0.283
88	104 (191)	32.43	584	0.089	0.089
89	105 (200,169)	32.78	2189	0.294	0.294
90	106 (170)	33.89	10819	0.832	0.832
91	107 (190)	34.15	3104	0.290	0.290
92	108 (198)	34.99	1178	0.094	0.094
93	109 (199)	35.21	14791	2.963	2.963
94	110 (196,203)	35.73	16095	2.958	2.958
95	111 (189)	36.86	218	0.016	0.016
96	112 (195)	38.35	5276	0.355	0.355
97	113 (208)	38.86	914	0.177	0.177
98	114 (207)	39.77	670	0.064	0.064
99	115 (194)	41.12	14312	1.179	1.179
100	116 (205)	41.99	741	0.074	0.074
101	117 (206)	46.92	5462	0.479	0.479
102	118 (209)	52.77	14	0.001	0.001
103	Sum			114.564	114.564



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Sample Name:	CCCS0531B	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	05/31/2009 21:34:42	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 08:33:38
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_051909	Current Time:	13:22:52
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC24-73-12

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.57	1858	7.623	7.623
2	4 (3)	12.68	674	5.333	5.333
3	5 (4,10)	13.28	1154	2.067	2.067
4	6 (7,9)	14.13	2803	0.735	0.735
5	7 (6)	14.43	2234	1.188	1.188
6	8 (5,8)	14.62	9291	9.442	9.442
7	10 (19)	15.25	666	0.228	0.228
8	13 (12,13)	15.98	511	0.176	0.176
9	14 (15,18)	16.11	8882	2.859	2.859
10	15 (17)	16.19	3958	2.681	2.681
11	16 (24,27)	16.49	941	0.196	0.196
12	17 (16,32)	16.74	7594	2.913	2.913
13	19 (23,34,54)	17.20	120	0.038	0.038
14	20 (29)	17.37	210	0.040	0.040
15	21 (26)	17.49	2040	0.589	0.589
16	22 (25)	17.58	1128	0.249	0.249
17	23 (31)	17.78	12355	2.940	2.940
18	24 (28,50)	17.82	13951	2.963	2.963
19	25 (20,21,33,53)	18.17	10467	2.887	2.887
20	26 (22,51)	18.40	6996	2.020	2.020
21	27 (45)	18.63	2682	0.695	0.695
22	29 (46)	18.90	1091	0.317	0.317
23	31 (52,69,73)	19.20	10756	3.817	3.817
24	32 (43,49)	19.36	8853	1.573	1.573
25	33 (38,47)	19.48	3912	0.488	0.488
26	34 (48,75)	19.54	3928	0.680	0.680
27	36 (35)	19.73	359	0.154	0.154
28	37 (104,44)	19.93	13341	3.026	3.026
29	38 (37,42,59)	20.06	7784	2.194	2.194
30	39 (41,64,71,72)	20.40	15034	2.640	2.640
31	41 (68,96)	20.57	211	0.064	0.064
32	42 (40)	20.67	3464	0.735	0.735
33	43 (57,103)	20.91	173	0.038	0.038

CCCS0531B

1 of 3

Print Date: 06/01/2009  
Nea Lims Version : 4.4.4.1

34	44 (58,67,100)	21.09	579	0.084	0.084
35	45 (63)	21.24	866	0.129	0.129
36	46 (74,94,61)	21.41	8011	0.946	0.946
37	47 (70)	21.54	15105	2.254	2.254
38	48 (66,76,98,80,93,95,	21.66	20049	4.486	4.486
39	49 (55,91,121)	21.96	1957	0.371	0.371
40	50 (56,60)	22.26	13808	2.020	2.020
41	51 (84,92,155)	22.50	3925	1.518	1.518
42	52 (89)	22.61	354	0.067	0.067
43	53 (90,101)	22.76	7173	1.289	1.289
44	54 (79,99,113)	22.95	3519	0.405	0.405
45	55 (119,150)	23.23	222	0.017	0.017
46	56 (78,83,112,108)	23.32	683	0.130	0.130
47	57 (97,152,86)	23.54	3153	0.420	0.420
48	58 (81,87,117,125,115)	23.71	5430	0.859	0.859
49	59 (116,85,111)	23.86	2997	0.385	0.385
50	60 (120,136)	23.99	2989	0.467	0.467
51	61 (77,110,148)	24.11	8187	1.466	1.466
52	63 (82)	24.48	2334	0.337	0.337
53	64 (151)	24.78	7251	1.183	1.183
54	65 (124,135)	24.91	2115	0.195	0.195
55	66 (144)	24.97	1668	0.426	0.426
56	67 (107,109,147)	25.02	570	0.107	0.107
57	68 (123)	25.12	216	0.034	0.034
58	69 (106,118,139,149)	25.22	17501	2.575	2.575
59	71 (114,134,143)	25.61	1001	0.131	0.131
60	72 (122,131,133,142)	25.82	256	0.021	0.021
61	73 (146,165,188)	26.08	1978	0.264	0.264
62	74 (105,132,161)	26.21	7985	0.862	0.862
63	75 (153)	26.36	15749	1.884	1.884
64	77 (141)	26.87	6151	1.170	1.170
65	78 (179)	26.94	6503	1.038	1.038
66	79 (137)	27.16	211	0.054	0.054
67	80 (130,176)	27.29	2560	0.177	0.177
68	82 (138,163,164)	27.50	13592	1.710	1.710
69	83 (158,160,186)	27.68	1531	0.167	0.167
70	84 (126,129)	27.88	398	0.011	0.011
71	85 (166,178)	28.21	3353	0.791	0.791
72	87 (175,159)	28.49	731	0.156	0.156
73	88 (182,187)	28.64	19016	2.487	2.487
74	89 (128,162)	28.75	598	0.057	0.057
75	90 (183)	28.94	8378	1.134	1.134
76	91 (167)	29.20	402	0.036	0.036
77	92 (185)	29.52	3617	0.333	0.333
78	93 (174,181)	29.88	15949	2.144	2.144
79	94 (177)	30.14	7613	1.148	1.148
80	95 (156,171)	30.43	3783	0.515	0.515
81	96 (157,202)	30.69	2560	0.050	0.050
82	98 (173)	30.86	287	0.030	0.030
83	99 (201)	31.21	1817	0.259	0.259
84	100 (172,204)	31.44	2536	0.375	0.375

85	101 (192,197)	31.74	448	0.078	0.078
86	102 (180)	31.91	35246	4.028	4.028
87	103 (193)	32.15	1972	0.281	0.281
88	104 (191)	32.43	559	0.083	0.083
89	105 (200,169)	32.78	2341	0.305	0.305
90	106 (170)	33.89	11222	0.837	0.837
91	107 (190)	34.14	3158	0.287	0.287
92	108 (198)	34.98	1092	0.084	0.084
93	109 (199)	35.22	15149	2.943	2.943
94	110 (196,203)	35.74	16625	2.964	2.964
95	111 (189)	36.88	263	0.019	0.019
96	112 (195)	38.35	5538	0.362	0.362
97	113 (208)	38.87	1029	0.194	0.194
98	114 (207)	39.76	751	0.069	0.069
99	115 (194)	41.12	14851	1.187	1.187
100	116 (205)	41.96	705	0.068	0.068
101	117 (206)	46.93	5664	0.482	0.482
102	118 (209)	52.76	11	0.001	0.001
103	Sum			117.029	117.029



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Sample Name:	CCCS0531C	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	06/01/2009 03:01:32	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 08:41:57
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_051909	Current Time:	13:22:53
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC24-73-17

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.57	1756	7.634	7.634
2	4 (3)	12.68	670	5.614	5.614
3	5 (4,10)	13.28	1098	2.084	2.084
4	6 (7,9)	14.13	2665	0.740	0.740
5	7 (6)	14.43	2069	1.165	1.165
6	8 (5,8)	14.62	8724	9.394	9.394
7	10 (19)	15.25	648	0.235	0.235
8	13 (12,13)	15.97	471	0.172	0.172
9	14 (15,18)	16.10	8316	2.836	2.836
10	15 (17)	16.19	3722	2.671	2.671
11	16 (24,27)	16.48	946	0.209	0.209
12	17 (16,32)	16.74	7182	2.919	2.919
13	19 (23,34,54)	17.19	254	0.086	0.086
14	20 (29)	17.36	307	0.062	0.062
15	21 (26)	17.49	1922	0.588	0.588
16	22 (25)	17.57	1134	0.265	0.265
17	23 (31)	17.77	11180	2.817	2.817
18	24 (28,50)	17.82	13407	3.017	3.017
19	25 (20,21,33,53)	18.17	9778	2.858	2.858
20	26 (22,51)	18.40	6511	1.992	1.992
21	27 (45)	18.63	2581	0.709	0.709
22	29 (46)	18.90	1045	0.322	0.322
23	31 (52,69,73)	19.20	10021	3.767	3.767
24	32 (43,49)	19.36	8294	1.561	1.561
25	33 (38,47)	19.47	3736	0.494	0.494
26	34 (48,75)	19.54	3621	0.664	0.664
27	36 (35)	19.73	460	0.210	0.210
28	37 (104,44)	19.93	12405	2.980	2.980
29	38 (37,42,59)	20.06	7355	2.196	2.196
30	39 (41,64,71,72)	20.40	13993	2.603	2.603
31	41 (68,96)	20.57	254	0.081	0.081
32	42 (40)	20.66	3298	0.742	0.742
33	43 (57,103)	20.91	212	0.049	0.049

CCCS0531C

1 of 3

Print Date: 06/01/2009  
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34	44 (58,67,100)	21.08	510	0.079	0.079
35	45 (63)	21.24	798	0.126	0.126
36	46 (74,94,61)	21.41	7531	0.942	0.942
37	47 (70)	21.54	14096	2.228	2.228
38	48 (66,76,98,80,93,95,	21.66	18695	4.431	4.431
39	49 (55,91,121)	21.96	1913	0.385	0.385
40	50 (56,60)	22.26	12897	1.999	1.999
41	51 (84,92,155)	22.50	3709	1.520	1.520
42	52 (89)	22.60	406	0.082	0.082
43	53 (90,101)	22.76	6739	1.283	1.283
44	54 (79,99,113)	22.95	3353	0.409	0.409
45	55 (119,150)	23.23	287	0.023	0.023
46	56 (78,83,112,108)	23.32	715	0.144	0.144
47	57 (97,152,86)	23.53	2977	0.420	0.420
48	58 (81,87,117,125,115)	23.71	5114	0.857	0.857
49	59 (116,85,111)	23.86	2919	0.397	0.397
50	60 (120,136)	23.99	2862	0.474	0.474
51	61 (77,110,148)	24.11	7784	1.477	1.477
52	63 (82)	24.48	2222	0.339	0.339
53	64 (151)	24.77	6876	1.189	1.189
54	65 (124,135)	24.91	1996	0.195	0.195
55	66 (144)	24.97	1664	0.451	0.451
56	67 (107,109,147)	25.03	558	0.111	0.111
57	68 (123)	25.12	173	0.029	0.029
58	69 (106,118,139,149)	25.22	16406	2.557	2.557
59	71 (114,134,143)	25.61	1033	0.143	0.143
60	72 (122,131,133,142)	25.80	208	0.018	0.018
61	73 (146,165,188)	26.08	1890	0.267	0.267
62	74 (105,132,161)	26.20	7468	0.854	0.854
63	75 (153)	26.35	14807	1.876	1.876
64	77 (141)	26.87	5658	1.140	1.140
65	78 (179)	26.93	6159	1.041	1.041
66	79 (137)	27.13	283	0.077	0.077
67	80 (130,176)	27.28	2385	0.175	0.175
68	82 (138,163,164)	27.50	12744	1.698	1.698
69	83 (158,160,186)	27.67	1482	0.171	0.171
70	84 (126,129)	27.87	393	0.011	0.011
71	85 (166,178)	28.21	3179	0.794	0.794
72	87 (175,159)	28.50	718	0.162	0.162
73	88 (182,187)	28.64	17742	2.458	2.458
74	89 (128,162)	28.75	678	0.068	0.068
75	90 (183)	28.94	7892	1.132	1.132
76	91 (167)	29.19	364	0.035	0.035
77	92 (185)	29.52	3401	0.332	0.332
78	93 (174,181)	29.88	14930	2.126	2.126
79	94 (177)	30.14	7146	1.142	1.142
80	95 (156,171)	30.43	3491	0.503	0.503
81	96 (157,202)	30.68	2346	0.049	0.049
82	98 (173)	30.84	282	0.031	0.031
83	99 (201)	31.20	1852	0.279	0.279
84	100 (172,204)	31.44	2509	0.393	0.393

85	101 (192,197)	31.72	502	0.093	0.093
86	102 (180)	31.90	33084	4.005	4.005
87	103 (193)	32.15	1929	0.292	0.292
88	104 (191)	32.44	609	0.096	0.096
89	105 (200,169)	32.78	2214	0.306	0.306
90	106 (170)	33.88	10427	0.824	0.824
91	107 (190)	34.15	2955	0.284	0.284
92	108 (198)	35.00	954	0.078	0.078
93	109 (199)	35.21	14287	2.941	2.941
94	110 (196,203)	35.73	15613	2.949	2.949
95	111 (189)	36.85	242	0.019	0.019
96	112 (195)	38.34	5170	0.358	0.358
97	113 (208)	38.85	989	0.197	0.197
98	114 (207)	39.75	672	0.066	0.066
99	115 (194)	41.11	14008	1.186	1.186
100	116 (205)	41.98	620	0.063	0.063
101	117 (206)	46.92	5186	0.467	0.467
102	118 (209)	52.74	15	0.001	0.001
103	Sum			117.079	117.079



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, New York 12308

Phone:(518) 346-4592 Fax:(518) 381-6055

www.nealab.com

Sample Name:	CCCS0531D	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	06/01/2009 05:12:09	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	06/01/2009 08:50:47
Sample Set Name:	GC24_nea_053109e	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_051909	Current Time:	13:22:53
Run Time:	60 Minutes	Current Date:	06/01/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC24-73-19

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.57	1784	7.518	7.518
2	4 (3)	12.68	676	5.496	5.496
3	5 (4,10)	13.28	1106	2.035	2.035
4	6 (7,9)	14.13	2715	0.731	0.731
5	7 (6)	14.43	2185	1.193	1.193
6	8 (5,8)	14.62	8996	9.390	9.390
7	10 (19)	15.25	611	0.215	0.215
8	13 (12,13)	15.97	455	0.161	0.161
9	14 (15,18)	16.10	8529	2.819	2.819
10	15 (17)	16.19	3818	2.656	2.656
11	16 (24,27)	16.48	943	0.202	0.202
12	17 (16,32)	16.74	7275	2.865	2.865
13	19 (23,34,54)	17.20	57	0.019	0.019
14	20 (29)	17.37	230	0.045	0.045
15	21 (26)	17.49	1956	0.580	0.580
16	22 (25)	17.57	1150	0.261	0.261
17	23 (31)	17.77	11945	2.919	2.919
18	24 (28,50)	17.82	13379	2.917	2.917
19	25 (20,21,33,53)	18.17	10185	2.886	2.886
20	26 (22,51)	18.40	6866	2.037	2.037
21	27 (45)	18.63	2621	0.698	0.698
22	29 (46)	18.90	1091	0.325	0.325
23	31 (52,69,73)	19.20	10387	3.785	3.785
24	32 (43,49)	19.36	8555	1.561	1.561
25	33 (38,47)	19.48	3871	0.496	0.496
26	34 (48,75)	19.54	3810	0.678	0.678
27	36 (35)	19.73	642	0.284	0.284
28	37 (104,44)	19.93	12848	2.993	2.993
29	38 (37,42,59)	20.06	7678	2.223	2.223
30	39 (41,64,71,72)	20.40	14524	2.619	2.619
31	41 (68,96)	20.56	255	0.079	0.079
32	42 (40)	20.66	3397	0.740	0.740
33	43 (57,103)	20.92	208	0.047	0.047

CCCS0531D

1 of 3

Print Date: 06/01/2009  
Nea Lims Version : 4.4.4.1

34	44 (58,67,100)	21.08	583	0.087	0.087
35	45 (63)	21.24	845	0.129	0.129
36	46 (74,94,61)	21.41	7735	0.938	0.938
37	47 (70)	21.54	14541	2.228	2.228
38	48 (66,76,98,80,93,95,	21.66	19360	4.449	4.449
39	49 (55,91,121)	21.96	1940	0.378	0.378
40	50 (56,60)	22.26	13362	2.007	2.007
41	51 (84,92,155)	22.50	3873	1.539	1.539
42	52 (89)	22.60	379	0.074	0.074
43	53 (90,101)	22.76	6924	1.277	1.277
44	54 (79,99,113)	22.95	3429	0.405	0.405
45	55 (119,150)	23.23	242	0.019	0.019
46	56 (78,83,112,108)	23.32	683	0.134	0.134
47	57 (97,152,86)	23.53	3078	0.421	0.421
48	58 (81,87,117,125,115)	23.71	4943	0.802	0.802
49	59 (116,85,111)	23.86	3230	0.426	0.426
50	60 (120,136)	23.99	2871	0.461	0.461
51	61 (77,110,148)	24.11	8022	1.476	1.476
52	63 (82)	24.48	2252	0.334	0.334
53	64 (151)	24.77	7055	1.182	1.182
54	65 (124,135)	24.91	2171	0.205	0.205
55	66 (144)	24.97	1584	0.416	0.416
56	67 (107,109,147)	25.03	472	0.091	0.091
57	68 (123)	25.13	242	0.040	0.040
58	69 (106,118,139,149)	25.22	16837	2.543	2.543
59	71 (114,134,143)	25.61	1000	0.134	0.134
60	72 (122,131,133,142)	25.80	214	0.018	0.018
61	73 (146,165,188)	26.08	1938	0.266	0.266
62	74 (105,132,161)	26.20	7696	0.853	0.853
63	75 (153)	26.36	15244	1.872	1.872
64	77 (141)	26.87	6253	1.222	1.222
65	78 (179)	26.94	6317	1.035	1.035
66	79 (137)	27.14	205	0.054	0.054
67	80 (130,176)	27.28	2448	0.174	0.174
68	82 (138,163,164)	27.50	13069	1.688	1.688
69	83 (158,160,186)	27.67	1522	0.170	0.170
70	84 (126,129)	27.88	388	0.011	0.011
71	85 (166,178)	28.21	3230	0.782	0.782
72	87 (175,159)	28.49	690	0.151	0.151
73	88 (182,187)	28.64	18295	2.457	2.457
74	89 (128,162)	28.76	596	0.058	0.058
75	90 (183)	28.93	8133	1.131	1.131
76	91 (167)	29.19	410	0.038	0.038
77	92 (185)	29.52	3525	0.333	0.333
78	93 (174,181)	29.88	15469	2.135	2.135
79	94 (177)	30.14	7422	1.150	1.150
80	95 (156,171)	30.43	3745	0.523	0.523
81	96 (157,202)	30.68	2502	0.051	0.051
82	98 (173)	30.84	404	0.044	0.044
83	99 (201)	31.20	1794	0.262	0.262
84	100 (172,204)	31.44	2506	0.381	0.381

85	101 (192,197)	31.73	525	0.094	0.094
86	102 (180)	31.90	34096	4.001	4.001
87	103 (193)	32.14	1943	0.285	0.285
88	104 (191)	32.44	580	0.088	0.088
89	105 (200,169)	32.78	2264	0.303	0.303
90	106 (170)	33.89	10573	0.809	0.809
91	107 (190)	34.14	2952	0.275	0.275
92	108 (198)	34.97	1193	0.095	0.095
93	109 (199)	35.21	14765	2.947	2.947
94	110 (196,203)	35.74	16210	2.968	2.968
95	111 (189)	36.83	357	0.027	0.027
96	112 (195)	38.34	5396	0.362	0.362
97	113 (208)	38.84	1057	0.204	0.204
98	114 (207)	39.74	811	0.077	0.077
99	115 (194)	41.11	14591	1.198	1.198
100	116 (205)	41.96	701	0.069	0.069
101	117 (206)	46.94	5632	0.492	0.492
102	118 (209)	52.78	16	0.001	0.001
103	Sum			116.821	116.821

# QC Sample Raw Data

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050314
ELAP ID No:	11078	LRF ID:	CEBLK-52RR1
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-52(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM06270BRR1
% Moisture:	100	Lab File ID:	GC24-73-7
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	05/31/2009 16:06
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:		

OCN (I.S.) Peak Area: 152282

Percent Recovery (50 - 150 %): 132

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

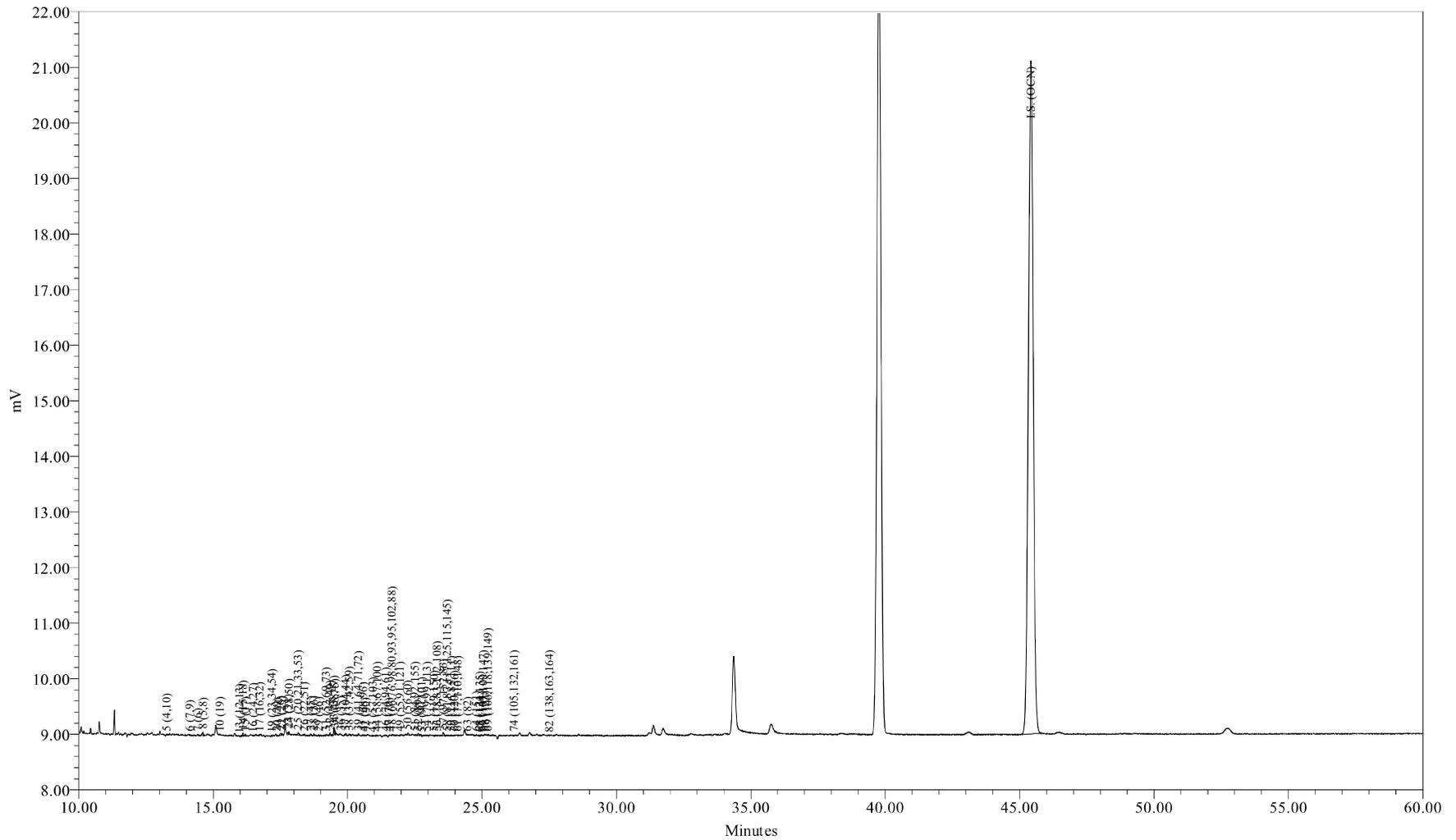
Visual Aroclor ID: No Aroclor Pattern Detected



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: AM06270BRR1  
Sample ID: METHOD BLANK  
Date Acquired: 5/31/2009 4:06:28 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-7

Sample Name: AM06270BRR1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 16:06:28  
 Lab Sample ID: AM06270BRR1  
 LRF ID: CEBLK-52RR1  
 Lab File ID: GC24-73-7

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <9.10 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	0.00	0.00
Tri	59.42	64.29
Tetra	10.68	10.19
Penta	29.90	25.52
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 1.80

Meta + Para Cl / biphenyl Residue = 1.81

Total Cl / biphenyl Residue = 3.61

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 16:06:28  
 Lab Sample ID: AM06270BRR1  
 LRF ID: CEBLK-52RR1  
 Lab File ID: GC24-73-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7				0.529	2.19	U
3	12.58	188.7				6.63	1000	U
4	12.68	188.7				0.355	1.28	U
5	13.27	223.1	20			0.134	0.621	U
6	14.12	223.1	9			0.0721	0.219	U
7	14.44	223.1	53			0.158	0.347	U
8	14.62	223.1	138			0.542	2.56	U
9	15.18	223.1				0.294	25.0	U
10	15.26	257.5	0			0.0604	0.102	U
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.98	223.1	1			0.0559	0.0975	U
14	16.11	249.0	116			0.128	0.676	U
15	16.19	257.5	87	0.145	0.563	0.143	0.676	J
16	16.48	257.5	3			0.0374	0.0475	U
17	16.73	257.5	88			0.166	0.713	U
19	17.19	267.9	3			0.128	25.0	U
20	17.37	257.5	5			0.0108	0.0194	U
21	17.50	257.5	149	0.194	0.754	0.0606	0.132	
22	17.56	257.5	95	0.0980	0.381	0.0426	0.0585	
23	17.79	257.5	116			0.487	0.753	U
24	17.83	257.5	115			0.211	0.964	U
25	18.16	259.5	137			0.105	0.726	U
26	18.40	258.7	52			0.120	0.530	U
27	18.64	292.0	74	0.0786	0.269	0.0367	0.163	J
28	18.74	257.5	71			0.375	25.0	U
29	18.93	292.0	40			0.127	0.127	U
30	19.03	257.5				0.120	25.0	U
31	19.20	292.0	33			0.204	0.872	U
32	19.35	292.0	127			0.0978	0.420	U
33	19.49	292.0	153			0.0656	0.183	U
34	19.53	292.0	96			0.0579	0.183	U
35	19.68	292.0				0.205	25.0	U
36	19.74	257.5	37			0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	84			0.160	0.786	U
38	20.06	272.4	59			0.115	0.475	U
39	20.40	292.0	38			0.121	0.749	U
41	20.59	326.4	26			0.115	25.0	U
42	20.65	292.0	12			0.0968	0.172	U
43	20.93	298.9	9			0.152	25.0	U
44	21.10	298.9	21			0.0225	0.0402	U
45	21.25	292.0				0.0299	0.0384	U
46	21.42	292.0	3			0.0821	0.347	U
47	21.54	292.0	3			0.164	0.621	U
48	21.66	293.5	49			0.243	1.32	U
49	21.96	324.7	10			0.0376	0.0932	U
50	22.25	292.0	89			0.359	0.640	U
51	22.51	326.4	14			0.0888	0.329	U
52	22.63	326.4	131	0.113	0.347	0.0384	0.0384	
53	22.76	326.4	1			0.0691	0.329	U
54	22.96	326.4	5			0.101	0.135	U
55	23.22	326.4	12			0.00644	0.0102	U
56	23.33	326.4	5			0.0647	0.0647	U
57	23.56	326.4	189	0.107	0.327	0.0435	0.102	
58	23.70	326.4	4			0.0841	0.212	U
59	23.85	326.4	1			0.0484	0.128	U
60	23.98	360.9	8			0.0772	0.137	U
61	24.10	326.4	13			0.0668	0.389	U
62	24.39	360.9				0.113	25.0	U
63	24.46	326.4	8			0.0201	0.0804	U
64	24.78	360.9	12			0.0518	0.311	U
65	24.92	350.5	7			0.0149	0.0530	U
66	24.98	360.9	3			0.0541	0.110	U
67	25.05	336.8	5			0.0348	0.0475	U
68	25.13	326.4	4			0.125	25.0	U
69	25.23	337.5	8			0.0938	0.731	U
70	25.33	360.9				0.0829	25.0	U
71	25.62	347.8				0.0348	0.0369	U
72	25.82	336.8				0.00638	0.0106	U
73	26.08	360.9				0.0320	0.0713	U
74	26.19	347.8	3			0.0721	0.248	U
75	26.36	360.9				0.109	0.538	U
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.29	360.9				0.0151	0.0475	U
82	27.51	360.9	2			0.108	0.493	U
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3				0.0677	0.201	U
87	28.51	395.3				0.0156	0.0731	U
88	28.65	395.3				0.102	0.658	U
89	28.76	360.9				0.0199	0.0366	U
90	28.94	395.3				0.0679	0.311	U
91	29.19	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.89	394.3				0.102	0.585	U
94	30.15	394.3				0.0936	0.311	U
95	30.43	382.2				0.0871	0.144	U
96	30.69	429.8				0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.90	395.3				0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = <9.10 ng/L 9.10 32.2 U

Total Nanomoles = 0.003

Average Molecular Weight = 278.6

Number of Calibrated Peaks Found = 58

Internal Standard Retention Time = 45.42 minutes

Internal Standard Peak Area = 152282.5

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
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 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 16:06:28  
 Lab Sample ID: AM06270BRR1  
 LRF ID: CEBLK-52RR1  
 Lab File ID: GC24-73-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001		2	-	-
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.27	2:2	004 010		2-2; 26	-	-
6	14.12	2:1	007 009		24; 25	-	-
7	14.44	2:1	006		2-3	-	-
8	14.62	2:1	005 008		23; 2-4	-	-
9	15.18	2:0	014		35	-	-
10	15.26	3:3	019		26-2	-	-
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.98	2:0	012 013		34; 3-4	-	-
14	16.11	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.19	3:2	017	0.3565	24-2	19.705	21.320
16	16.48	3:2	024 027		236; 26-3	-	-
17	16.73	3:2	016 032		23-2; 26-4	-	-
19	17.19	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.37	3:1	029		245	-	-
21	17.50	3:1	026	0.3853	25-3	26.392	28.555
22	17.56	3:1	025	0.3866	24-3	13.324	14.416
23	17.79	3:1	031		25-4	-	-
24	17.83	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.16	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.40	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.64	4:3	045	0.4104	236-2	10.679	10.189
28	18.74	3:0	036		35-3	-	-
29	18.93	4:3	046		23-26	-	-
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.35	4:2	043 049		235-2; 24-25	-	-
33	19.49	4:2	038 047		345; 24-24	-	-
34	19.53	4:2	048 075		245-2; 246-4	-	-
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.74	3:0	035		34-3	-	-
37	19.93	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.06	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.40	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.59	5:4	068 096		24-35; 236-26	-	-
42	20.65	4:2	040		23-23	-	-
43	20.93	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.10	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.25	4:1	063		235-4	-	-
46	21.42	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.54	4:1	070		25-34	-	-
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.96	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.25	4:1	056 060		23-34; 234-4	-	-
51	22.51	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.63	5:3	089	0.4982	234-26	15.383	13.130
53	22.76	5:2	090 101		235-24; 245-25	-	-
54	22.96	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.22	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.33	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.56	5:2 6:4	097 152 086	0.5187	245-23; 2356-26; 2345-2	14.516	12.390
58	23.70	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.85	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.98	6:4	120 136		245-35; 236-236	-	-
61	24.10	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.39	6:3	154		245-246	-	-
63	24.46	5:2	082		234-23	-	-
64	24.78	6:3	151		2356-25	-	-
65	24.92	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.98	6:3	144		2346-25	-	-
67	25.05	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.13	5:1	123		345-24	-	-
69	25.23	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.19	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.51	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = <9.10 ng/L

Total Nanomoles = 0.003

Average Molecular Weight = 278.6

Number of Calibrated Peaks Found = 58

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

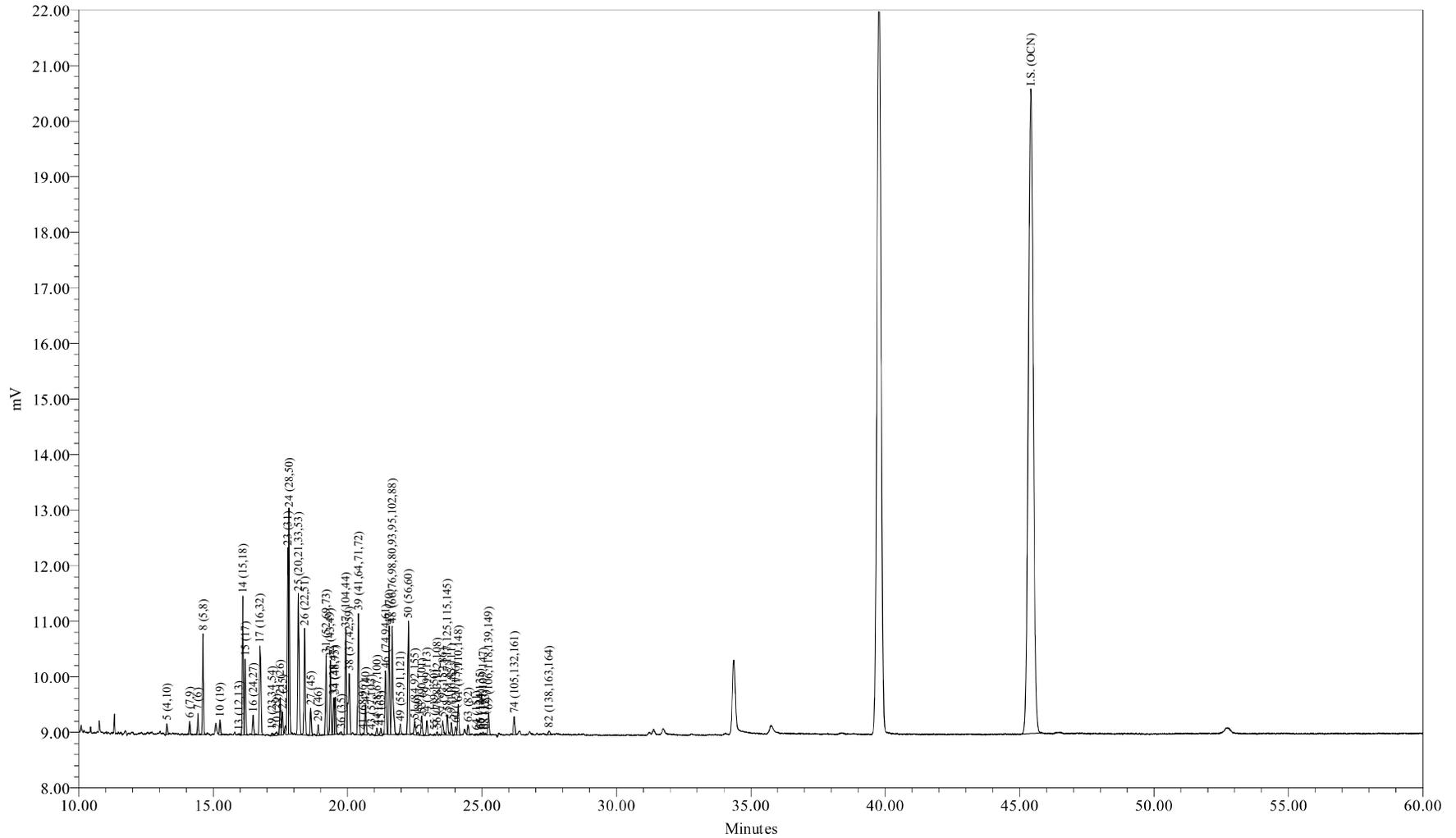
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09050314
ELAP ID No:	11078	LRF ID:	LCS-52RR1
Matrix:	ORGANIC FREE WATER	Client ID:	LCS-52(LAB CONTROL SPIKE)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM06270LRR1
% Moisture:	100	Lab File ID:	GC24-73-8
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	05/29/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	05/31/2009 17:12
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:		

OCN (I.S.) Peak Area: 148109

Percent Recovery (50 - 150 %): 128

SAMPLE TOTAL PCB CONCENTRATION: 177 ng/L

Visual Aroclor ID: PCB Added to Sample



Sample Name: AM06270LRR1  
Sample ID: LAB CONTROL SPIKE  
Date Acquired: 5/31/2009 5:12:09 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-8

Sample Name: AM06270LRR1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 17:12:09  
 Lab Sample ID: AM06270LRR1  
 LRF ID: LCS-52RR1  
 Lab File ID: GC24-73-8

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 177 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	17.93	20.95
Tri	46.79	47.73
Tetra	29.53	26.72
Penta	5.14	4.14
Hexa	0.61	0.46
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001		0	0
A1242	23+24/31+28	21.7844	93.8	96.8
A1254SED	61/100	1.4469	6.23	
A1254BIO	69+75+82/149+153+138	0.7271		3.23
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.45

Meta + Para Cl / biphenyl Residue = 1.70

Total Cl / biphenyl Residue = 3.15

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 17:12:09  
 Lab Sample ID: AM06270LRR1  
 LRF ID: LCS-52RR1  
 Lab File ID: GC24-73-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7				0.529	2.19	U
3	12.58	188.7				6.63	1000	U
4	12.68	188.7				0.355	1.28	U
5	13.28	223.1	490	4.15	18.6	0.134	0.621	
6	14.12	223.1	662	0.801	3.59	0.0721	0.219	
7	14.43	223.1	914	2.28	10.2	0.158	0.347	
8	14.62	223.1	4561	21.8	97.8	0.542	2.56	
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	699	1.15	4.45	0.0604	0.102	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.95	223.1	36	0.0797	0.357	0.0559	0.0975	J
14	16.11	249.0	6942	10.7	42.8	0.128	0.676	
15	16.19	257.5	3630	11.8	45.7	0.143	0.676	B
16	16.49	257.5	959	0.957	3.72	0.0374	0.0475	
17	16.74	257.5	6753	12.4	48.1	0.166	0.713	
19	17.19	267.9	215	0.330	1.23	0.128	25.0	J
20	17.37	257.5	284	0.259	1.01	0.0108	0.0194	
21	17.49	257.5	1947	2.69	10.5	0.0606	0.132	B
22	17.58	257.5	1217	1.29	5.00	0.0426	0.0585	B
23	17.78	257.5	9075	10.3	39.9	0.487	0.753	
24	17.82	257.5	11367	11.5	44.7	0.211	0.964	
25	18.17	259.5	8544	11.3	43.4	0.105	0.726	
26	18.40	258.7	5821	8.03	31.0	0.120	0.530	
27	18.63	292.0	1436	1.78	6.09	0.0367	0.163	B
28	18.77	257.5				0.375	25.0	U
29	18.91	292.0	602	0.834	2.86	0.127	0.127	
30	19.03	257.5				0.120	25.0	U
31	19.20	292.0	4289	7.13	24.4	0.204	0.872	
32	19.36	292.0	4160	3.49	11.9	0.0978	0.420	
33	19.48	292.0	1991	1.17	4.02	0.0656	0.183	
34	19.54	292.0	2117	1.73	5.91	0.0579	0.183	
35	19.68	292.0				0.205	25.0	U
36	19.76	257.5	150	0.310	1.20	0.144	25.0	J

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	5863	6.21	21.3	0.160	0.786	
38	20.06	272.4	4776	6.39	23.5	0.115	0.475	
39	20.40	292.0	7027	5.80	19.9	0.121	0.749	
41	20.57	326.4	79	0.115	0.352	0.115	25.0	J
42	20.66	292.0	1709	1.74	5.96	0.0968	0.172	
43	20.90	298.9	80			0.152	25.0	U
44	21.09	298.9	414	0.289	0.968	0.0225	0.0402	
45	21.24	292.0	366	0.261	0.893	0.0299	0.0384	
46	21.41	292.0	3553	1.95	6.68	0.0821	0.347	
47	21.55	292.0	6172	4.30	14.7	0.164	0.621	
48	21.66	293.5	7436	7.68	26.2	0.243	1.32	
49	21.97	324.7	613	0.540	1.66	0.0376	0.0932	
50	22.26	292.0	6676	4.57	15.7	0.359	0.640	
51	22.50	326.4	891	1.64	5.02	0.0888	0.329	
52	22.63	326.4	179	0.161	0.493	0.0384	0.0384	B
53	22.76	326.4	1207	0.987	3.02	0.0691	0.329	
54	22.95	326.4	872	0.460	1.41	0.101	0.135	
55	23.24	326.4	72	0.0252	0.0771	0.00644	0.0102	
56	23.33	326.4	185	0.172	0.526	0.0647	0.0647	
57	23.54	326.4	919	0.579	1.77	0.0435	0.102	B
58	23.71	326.4	1282	0.943	2.89	0.0841	0.212	
59	23.86	326.4	698	0.417	1.28	0.0484	0.128	
60	24.02	360.9	498	0.330	0.913	0.0772	0.137	
61	24.11	326.4	1793	1.45	4.43	0.0668	0.389	
62	24.39	360.9				0.113	25.0	U
63	24.48	326.4	606	0.423	1.29	0.0201	0.0804	
64	24.79	360.9	75			0.0518	0.311	U
65	24.93	350.5	74	0.0252	0.0718	0.0149	0.0530	J
66	24.95	360.9	79	0.0976	0.270	0.0541	0.110	J
67	25.04	336.8	148	0.127	0.377	0.0348	0.0475	
68	25.12	326.4	85			0.125	25.0	U
69	25.24	337.5	1363	0.727	2.15	0.0938	0.731	J
70	25.33	360.9				0.0829	25.0	U
71	25.62	347.8				0.0348	0.0369	U
72	25.82	336.8				0.00638	0.0106	U
73	26.08	360.9				0.0320	0.0713	U
74	26.20	347.8	1181	0.595	1.71	0.0721	0.248	
75	26.36	360.9				0.109	0.538	U
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.29	360.9				0.0151	0.0475	U
82	27.49	360.9	260			0.108	0.493	U
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3				0.0677	0.201	U
87	28.51	395.3				0.0156	0.0731	U
88	28.65	395.3				0.102	0.658	U
89	28.76	360.9				0.0199	0.0366	U
90	28.94	395.3				0.0679	0.311	U
91	29.19	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.89	394.3				0.102	0.585	U
94	30.15	394.3				0.0936	0.311	U
95	30.43	382.2				0.0871	0.144	U
96	30.69	429.8				0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.90	395.3				0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = 177 ng/L

9.10 32.2

Total Nanomoles = 0.674

Average Molecular Weight = 262.9

Number of Calibrated Peaks Found = 58

Internal Standard Retention Time = 45.42 minutes

Internal Standard Peak Area = 148108.9

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 05/31/2009 17:12:09  
 Lab Sample ID: AM06270LRR1  
 LRF ID: LCS-52RR1  
 Lab File ID: GC24-73-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	2		-	-
3	12.58	1:0	002	3		-	-
4	12.68	1:0	003	4		-	-
5	13.28	2:2	004 010	0.2924	2-2; 26	2.345	2.762
6	14.12	2:1	007 009	0.3109	24; 25	0.452	0.533
7	14.43	2:1	006	0.3177	2-3	1.286	1.515
8	14.62	2:1	005 008	0.3219	23; 2-4	12.314	14.508
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3358	26-2	0.647	0.660
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.95	2:0	012 013	0.3512	34; 3-4	0.045	0.053
14	16.11	2:0 3:2	015 018	0.3547	4-4; 25-2	6.014	6.349
15	16.19	3:2	017	0.3565	24-2	6.646	6.784
16	16.49	3:2	024 027	0.3631	236; 26-3	0.540	0.552
17	16.74	3:2	016 032	0.3686	23-2; 26-4	6.998	7.143
19	17.19	3:1 4:4	023 034 054	0.3785	235; 35-2; 26-26	0.186	0.183
20	17.37	3:1	029	0.3824	245	0.146	0.149
21	17.49	3:1	026	0.3851	25-3	1.520	1.552
22	17.58	3:1	025	0.3871	24-3	0.727	0.742
23	17.78	3:1	031	0.3915	25-4	5.797	5.917
24	17.82	3:1 4:3	028 050	0.3923	24-4; 246-2	6.503	6.638
25	18.17	3:1 4:3	020 021 033 053	0.4000	23-3; 234; 34-2; 25-26	6.356	6.438
26	18.40	3:1 4:3	022 051	0.4051	23-4; 24-26	4.532	4.605
27	18.63	4:3	045	0.4102	236-2	1.004	0.904
28	18.77	3:0	036		35-3	-	-
29	18.91	4:3	046	0.4163	23-26	0.471	0.424
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4227	25-25; 246-3; 26-35	4.028	3.626
32	19.36	4:2	043 049	0.4262	235-2; 24-25	1.968	1.772
33	19.48	4:2	038 047	0.4289	345; 24-24	0.663	0.597
34	19.54	4:2	048 075	0.4302	245-2; 246-4	0.975	0.877
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.76	3:0	035	0.4351	34-3	0.175	0.179
37	19.93	5:4 4:2	104 044	0.4388	246-26; 23-25	3.506	3.156
38	20.06	3:0 4:2	037 042 059	0.4417	34-4; 23-24; 236-3	3.609	3.482
39	20.40	4:2	041 064 071 072	0.4491	234-2; 236-4; 26-34; 25-35	3.273	2.946

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
41	20.57	5:4	068 096	0.4529	24-35; 236-26	0.065	0.052
42	20.66	4:2	040	0.4549	23-23	0.983	0.885
43	20.90	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.09	4:1 5:3	058 067 100	0.4643	23-35; 245-3; 246-24	0.163	0.144
45	21.24	4:1	063	0.4676	235-4	0.147	0.133
46	21.41	4:1 5:3	074 094 061	0.4714	245-4; 235-26; 2345	1.101	0.991
47	21.55	4:1	070	0.4745	25-34	2.426	2.184
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4769	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.337	3.884
49	21.97	4:1 5:3	055 091 121	0.4837	234-3; 236-24; 246-35	0.305	0.247
50	22.26	4:1	056 060	0.4901	23-34; 234-4	2.581	2.323
51	22.50	5:3 6:4	084 092 155	0.4954	236-23; 235-25; 246-246	0.926	0.745
52	22.63	5:3	089	0.4982	234-26	0.091	0.073
53	22.76	5:2	090 101	0.5011	235-24; 245-25	0.557	0.449
54	22.95	5:2	079 099 113	0.5053	34-35; 245-24; 236-35	0.259	0.209
55	23.24	5:2 6:4	119 150	0.5117	246-34; 236-246	0.014	0.011
56	23.33	5:2	078 083 112 108	0.5137	345-3; 235-23; 2356-3; 2346-3	0.097	0.078
57	23.54	5:2 6:4	097 152 086	0.5183	245-23; 2356-26; 2345-2	0.327	0.263
58	23.71	5:2	081 087 117 125 115 145	0.5220	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.532	0.429
59	23.86	5:2	116 085 111	0.5253	23456; 234-24; 235-35	0.236	0.190
60	24.02	6:4	120 136	0.5288	245-35; 236-236	0.186	0.136
61	24.11	5:2	077 110 148	0.5308	34-34; 236-34; 235-246	0.817	0.658
62	24.39	6:3	154		245-246	-	-
63	24.48	5:2	082	0.5390	234-23	0.239	0.192
64	24.79	6:3	151		2356-25	-	-
65	24.93	5:1 6:3	124 135	0.5489	345-25; 235-236	0.014	0.011
66	24.95	6:3	144	0.5493	2346-25	0.055	0.040
67	25.04	5:1 6:3	107 109 147	0.5513	234-35; 235-34; 2356-24	0.072	0.056
68	25.12	5:1	123		345-24	-	-
69	25.24	5:1 6:3	106 118 139 149	0.5557	2345-3; 245-34; 2346-24; 236-245	0.411	0.320
70	25.33	6:3	140		234-246	-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.20	5:1 6:3	105 132 161	0.5768	234-34; 234-236; 2346-35	0.336	0.254
75	26.36	6:2	153		245-245	-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.87	6:2	141		2345-25	-	-
78	26.94	7:4	179		2356-236	-	-
79	27.13	6:2	137		2345-24	-	-
80	27.29	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.49	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.88	6:2	126 129		345-34; 2345-23	-	-
85	28.21	7:3	166 178		23456-4; 2356-235	-	-
87	28.51	7:3	175 159		2346-235; 2345-35	-	-
88	28.65	7:3	182 187		2345-246; 2356-245	-	-
89	28.76	6:2	128 162		234-234; 235-345	-	-
90	28.94	7:3	183		2346-245	-	-
91	29.19	6:1	167		245-345	-	-
92	29.53	7:3	185		23456-25	-	-
93	29.89	7:3	174 181		2345-236; 23456-24	-	-
94	30.15	7:3	177		2356-234	-	-
95	30.43	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.69	8:4	157 202		234-345; 2356-2356	-	-
98	30.85	7:3	173		23456-23	-	-
99	31.21	8:4	201		2346-2356	-	-
100	31.45	7:2	172 204		2345-235; 23456-246	-	-
101	31.71	8:4	192 197		23456-35; 2346-2346	-	-
102	31.90	7:2	180		2345-245	-	-
103	32.15	7:2	193		2356-345	-	-
104	32.45	7:2	191		2346-345	-	-
105	32.78	8:4	200 169		23456-236; 345-345	-	-
106	33.90	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 177 ng/L

Total Nanomoles = 0.674

Average Molecular Weight = 262.9

Number of Calibrated Peaks Found = 58

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

**PCB SAMPLE ANALYSIS DATA SHEET**

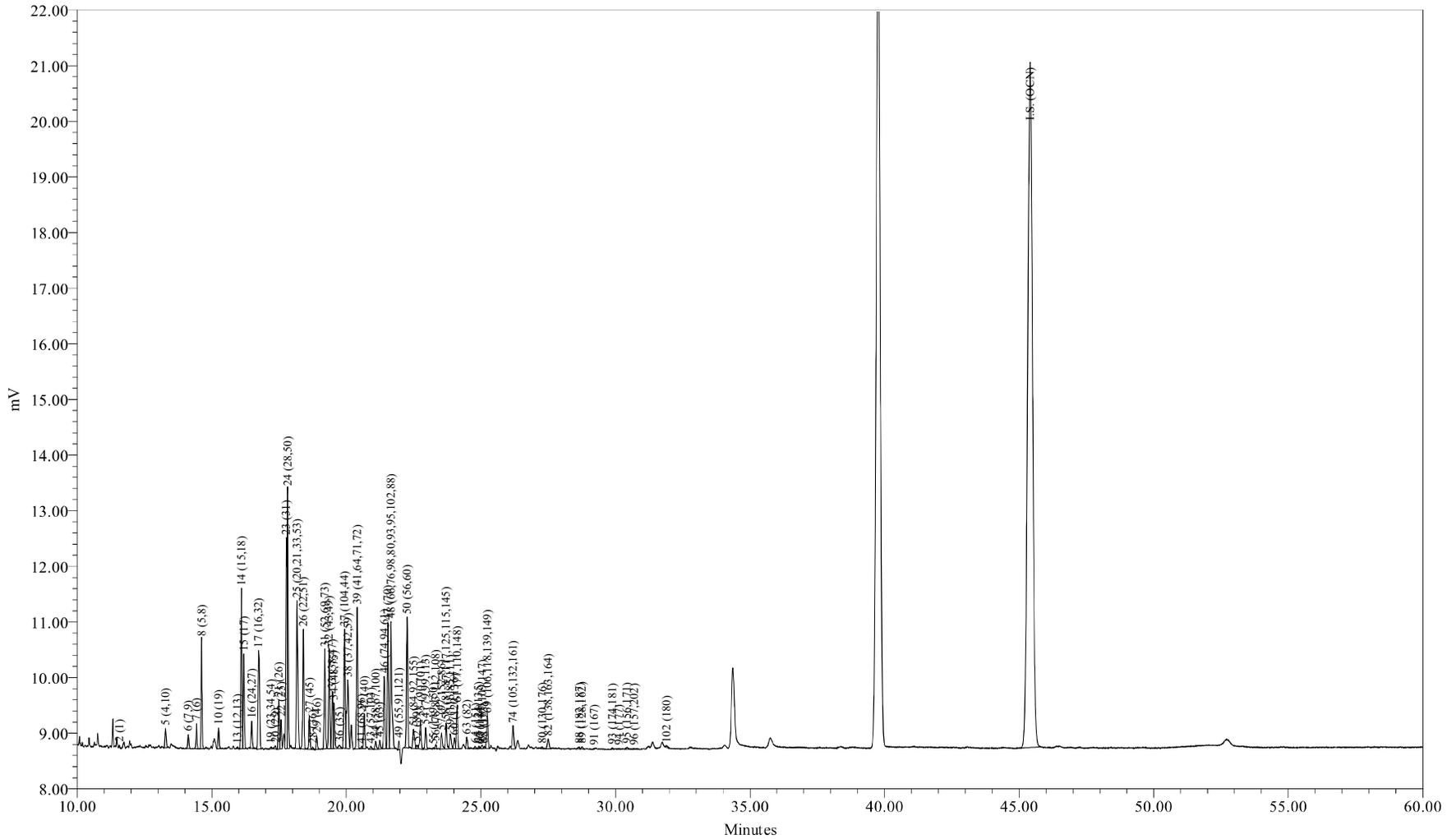
Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09050314</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>09050314-03MSRR1</u>
Matrix:	<u>Water</u>	Client ID:	<u>WFF-LHPO-090529-BT001 MS</u>
Sample Wt(Dry)/Vol:	<u>1060 mL</u>	Lab Sample ID:	<u>AM06270MRR1</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-73-15</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u>05/29/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>05/29/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>06/01/2009 00:50</u>
Analytical SOP Reference:	<u>SOP NE207_03</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID:</u>		

OCN (I.S.) Peak Area: 156069

Percent Recovery (50 - 150 %): 135

SAMPLE TOTAL PCB CONCENTRATION: 179 ng/L

Visual Aroclor ID: PCB Added to Sample



Sample Name: AM06270MRR1  
Sample ID: WFF-LHPO-090529-BT001 MS  
Date Acquired: 6/1/2009 12:50:51 AM EDT

Sample Amount (L) : 1.0600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-15

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LHPO-090529-BT001 MS  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 00:50:51  
 Lab Sample ID: AM06270MRR1  
 LRF ID: 09050314-03MSRR1  
 Lab File ID: GC24-73-15

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 179 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.49	0.70
Di	10.69	12.56
Tri	49.47	51.36
Tetra	31.93	29.36
Penta	6.39	5.23
Hexa	1.01	0.77
Hepta	0.03	0.02
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	0.8799	3.48	3.54
A1242	23+24/31+28	22.5603	89.2	90.8
A1254SED	61/100	1.8502	7.32	
A1254BIO	69+75+82/149+153+138	1.4076		5.66
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.51

Meta + Para Cl / biphenyl Residue = 1.77

Total Cl / biphenyl Residue = 3.28

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LHPO-090529-BT001 MS  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 00:50:51  
 Lab Sample ID: AM06270MRR1  
 LRF ID: 09050314-03MSRR1  
 Lab File ID: GC24-73-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.57	188.7	67	0.880	4.66	0.529	2.19	J
3	12.58	188.7				6.63	1000	U
4	12.68	188.7				0.355	1.28	U
5	13.28	223.1	1000	4.68	21.0	0.134	0.621	
6	14.12	223.1	768	0.836	3.75	0.0721	0.219	
7	14.43	223.1	1100	2.46	11.0	0.158	0.347	
8	14.62	223.1	4906	7.57	33.9	0.542	2.56	
9	15.18	223.1				0.294	25.0	U
10	15.25	257.5	986	1.44	5.61	0.0604	0.102	
11	15.72	257.5				0.198	25.0	U
12	15.78	223.1				0.306	25.0	U
13	15.96	223.1	81	0.136	0.612	0.0559	0.0975	
14	16.10	249.0	8011	13.9	55.8	0.128	0.676	
15	16.19	257.5	4447	12.9	50.2	0.143	0.676	B
16	16.48	257.5	1320	1.18	4.59	0.0374	0.0475	
17	16.74	257.5	7807	12.8	49.9	0.166	0.713	
19	17.20	267.9	135	0.185	0.692	0.128	25.0	J
20	17.37	257.5	200	0.163	0.634	0.0108	0.0194	
21	17.49	257.5	2485	3.08	12.0	0.0606	0.132	B
22	17.57	257.5	1466	1.39	5.39	0.0426	0.0585	B
23	17.77	257.5	10453	10.6	41.2	0.487	0.753	
24	17.82	257.5	13144	11.9	46.4	0.211	0.964	
25	18.17	259.5	9313	11.0	42.4	0.105	0.726	
26	18.40	258.7	6367	7.87	30.4	0.120	0.530	
27	18.63	292.0	1788	1.99	6.80	0.0367	0.163	B
28	18.75	257.5	155			0.375	25.0	U
29	18.90	292.0	729	0.905	3.10	0.127	0.127	
30	19.03	257.5				0.120	25.0	U
31	19.20	292.0	5450	8.17	28.0	0.204	0.872	
32	19.36	292.0	5557	4.20	14.4	0.0978	0.420	
33	19.48	292.0	3252	1.73	5.94	0.0656	0.183	
34	19.54	292.0	2675	1.97	6.73	0.0579	0.183	
35	19.68	292.0				0.205	25.0	U
36	19.74	257.5	284	0.524	2.04	0.144	25.0	J

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.93	292.0	6686	6.36	21.8	0.160	0.786	
38	20.06	272.4	5629	6.76	24.8	0.115	0.475	
39	20.40	292.0	8320	6.17	21.1	0.121	0.749	
41	20.57	326.4	124	0.161	0.493	0.115	25.0	J
42	20.66	292.0	1960	1.79	6.12	0.0968	0.172	
43	20.91	298.9	202	0.189	0.632	0.152	25.0	J
44	21.09	298.9	481	0.301	1.01	0.0225	0.0402	
45	21.24	292.0	529	0.338	1.16	0.0299	0.0384	
46	21.41	292.0	4201	2.08	7.11	0.0821	0.347	
47	21.54	292.0	7070	4.42	15.1	0.164	0.621	
48	21.66	293.5	8896	8.29	28.2	0.243	1.32	
49	21.96	324.7	420	0.323	0.996	0.0376	0.0932	
50	22.26	292.0	7884	4.86	16.6	0.359	0.640	
51	22.50	326.4	1416	2.34	7.17	0.0888	0.329	
52	22.62	326.4	222	0.180	0.552	0.0384	0.0384	B
53	22.76	326.4	1821	1.36	4.16	0.0691	0.329	
54	22.95	326.4	1264	0.606	1.86	0.101	0.135	
55	23.24	326.4	69	0.0212	0.0650	0.00644	0.0102	
56	23.32	326.4	223	0.185	0.566	0.0647	0.0647	
57	23.54	326.4	1088	0.615	1.88	0.0435	0.102	B
58	23.71	326.4	1591	1.05	3.23	0.0841	0.212	
59	23.86	326.4	1179	0.640	1.96	0.0484	0.128	
60	24.02	360.9	645	0.393	1.09	0.0772	0.137	
61	24.11	326.4	2510	1.85	5.67	0.0668	0.389	
62	24.39	360.9				0.113	25.0	U
63	24.48	326.4	685	0.427	1.31	0.0201	0.0804	
64	24.79	360.9	133			0.0518	0.311	U
65	24.91	350.5	137	0.0474	0.135	0.0149	0.0530	J
66	24.97	360.9	56	0.0624	0.173	0.0541	0.110	J
67	25.05	336.8	246	0.193	0.573	0.0348	0.0475	
68	25.12	326.4	110			0.125	25.0	U
69	25.24	337.5	2117	1.12	3.33	0.0938	0.731	
70	25.33	360.9				0.0829	25.0	U
71	25.62	347.8				0.0348	0.0369	U
72	25.82	336.8				0.00638	0.0106	U
73	26.08	360.9				0.0320	0.0713	U
74	26.19	347.8	1719	0.783	2.25	0.0721	0.248	
75	26.36	360.9				0.109	0.538	U
76	26.47	360.9				0.107	25.0	U
77	26.87	360.9				0.0637	0.311	U
78	26.94	395.3				0.0470	0.267	U
79	27.13	360.9				0.0501	0.0501	U
80	27.28	360.9	147	0.0328	0.0908	0.0151	0.0475	J
82	27.50	360.9	804	0.283	0.784	0.108	0.493	J
83	27.68	360.9				0.0450	0.0457	U
84	27.88	360.9				0.00310	0.00473	U
85	28.21	395.3				0.0677	0.201	U
87	28.51	395.3				0.0156	0.0731	U
88	28.66	395.3	151			0.102	0.658	U
89	28.76	360.9	153	0.0637	0.176	0.0199	0.0366	
90	28.94	395.3				0.0679	0.311	U
91	29.21	360.9	45			0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.53	394.3				0.0225	0.0859	U
93	29.88	394.3	89			0.102	0.585	U
94	30.13	394.3	46			0.0936	0.311	U
95	30.42	382.2	186	0.0910	0.238	0.0871	0.144	J
96	30.69	429.8	95			0.00942	0.0121	U
98	30.85	395.3				0.0133	0.0139	U
99	31.21	429.8				0.0863	0.0863	U
100	31.45	395.3				0.127	0.127	U
101	31.71	429.8				0.217	0.217	U
102	31.90	395.3	148			0.150	1.11	U
103	32.15	395.3				0.0640	0.0768	U
104	32.45	395.3				0.0374	0.0438	U
105	32.78	429.8				0.0460	0.0786	U
106	33.90	395.3				0.0538	0.234	U
107	34.15	395.3				0.0213	0.0768	U
108	34.98	429.8				0.0324	0.0438	U
109	35.22	429.8				0.116	0.768	U
110	35.74	429.8				0.184	0.786	U
111	36.86	395.3				0.0231	0.0231	U
112	38.35	429.8				0.0368	0.101	U
113	38.85	464.2				0.0438	0.0903	U
114	39.76	464.2				0.0154	0.0340	U
115	41.12	429.8				0.0969	0.329	U
116	41.98	429.8				0.0838	0.0838	U
117	46.94	464.2				0.0384	0.124	U
118	52.76	498.6				0.0126	0.0126	U

Total Concentration = 179 ng/L

9.10 32.2

Total Nanomoles = 0.670

Average Molecular Weight = 267.3

Number of Calibrated Peaks Found = 69

Internal Standard Retention Time = 45.40 minutes

Internal Standard Peak Area = 156069.3

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LHPO-090529-BT001 MS  
 Comment: HUDSON RIVER RAMP;COC090529-BNEA-01  
 Date Acquired: 06/01/2009 00:50:51  
 Lab Sample ID: AM06270MRR1  
 LRF ID: 09050314-03MSRR1  
 Lab File ID: GC24-73-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.57	1:1	001	0.2548	2	0.492	0.696
3	12.58	1:0	002		3	-	-
4	12.68	1:0	003		4	-	-
5	13.28	2:2	004 010	0.2925	2-2; 26	2.613	3.131
6	14.12	2:1	007 009	0.3110	24; 25	0.467	0.559
7	14.43	2:1	006	0.3178	2-3	1.377	1.650
8	14.62	2:1	005 008	0.3220	23; 2-4	4.228	5.065
9	15.18	2:0	014		35	-	-
10	15.25	3:3	019	0.3359	26-2	0.807	0.837
11	15.72	3:2	030		246	-	-
12	15.78	2:0	011		3-3	-	-
13	15.96	2:0	012 013	0.3515	34; 3-4	0.076	0.091
14	16.10	2:0 3:2	015 018	0.3546	4-4; 25-2	7.764	8.333
15	16.19	3:2	017	0.3566	24-2	7.226	7.500
16	16.48	3:2	024 027	0.3630	236; 26-3	0.661	0.686
17	16.74	3:2	016 032	0.3687	23-2; 26-4	7.177	7.449
19	17.20	3:1 4:4	023 034 054	0.3789	235; 35-2; 26-26	0.104	0.103
20	17.37	3:1	029	0.3826	245	0.091	0.095
21	17.49	3:1	026	0.3852	25-3	1.720	1.786
22	17.57	3:1	025	0.3870	24-3	0.776	0.806
23	17.77	3:1	031	0.3914	25-4	5.931	6.156
24	17.82	3:1 4:3	028 050	0.3925	24-4; 246-2	6.676	6.929
25	18.17	3:1 4:3	020 021 033 053	0.4002	23-3; 234; 34-2; 25-26	6.143	6.327
26	18.40	3:1 4:3	022 051	0.4053	23-4; 24-26	4.396	4.542
27	18.63	4:3	045	0.4104	236-2	1.109	1.015
28	18.75	3:0	036		35-3	-	-
29	18.90	4:3	046	0.4163	23-26	0.506	0.463
30	19.03	3:0	039		35-4	-	-
31	19.20	4:2	052 069 073	0.4229	25-25; 246-3; 26-35	4.564	4.177
32	19.36	4:2	043 049	0.4264	235-2; 24-25	2.344	2.146
33	19.48	4:2	038 047	0.4291	345; 24-24	0.969	0.887
34	19.54	4:2	048 075	0.4304	245-2; 246-4	1.099	1.006
35	19.68	4:2	062 065		2346; 2356	-	-
36	19.74	3:0	035	0.4348	34-3	0.293	0.304
37	19.93	5:4 4:2	104 044	0.4390	246-26; 23-25	3.555	3.254
38	20.06	3:0 4:2	037 042 059	0.4419	34-4; 23-24; 236-3	3.778	3.707
39	20.40	4:2	041 064 071 072	0.4493	234-2; 236-4; 26-34; 25-35	3.448	3.156

DB-1 Peak <sup>1</sup>	Retention						Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>		Percent	Percent
41	20.57	5:4	068 096	0.4531	24-35; 236-26		0.090	0.074
42	20.66	4:2	040	0.4551	23-23		0.999	0.914
43	20.91	4:1 5:3	057 103	0.4606	235-3; 246-25		0.106	0.094
44	21.09	4:1 5:3	058 067 100	0.4645	23-35; 245-3; 246-24		0.168	0.150
45	21.24	4:1	063	0.4678	235-4		0.189	0.173
46	21.41	4:1 5:3	074 094 061	0.4716	245-4; 235-26; 2345		1.160	1.062
47	21.54	4:1	070	0.4744	25-34		2.471	2.262
48	21.66	4:1 5:3	066 076 098 080 093 095 102 088	0.4771	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2		4.631	4.217
49	21.96	4:1 5:3	055 091 121	0.4837	234-3; 236-24; 246-35		0.181	0.149
50	22.26	4:1	056 060	0.4903	23-34; 234-4		2.714	2.484
51	22.50	5:3 6:4	084 092 155	0.4956	236-23; 235-25; 246-246		1.308	1.071
52	22.62	5:3	089	0.4982	234-26		0.101	0.082
53	22.76	5:2	090 101	0.5013	235-24; 245-25		0.759	0.622
54	22.95	5:2	079 099 113	0.5055	34-35; 245-24; 236-35		0.339	0.277
55	23.24	5:2 6:4	119 150	0.5119	246-34; 236-246		0.012	0.010
56	23.32	5:2	078 083 112 108	0.5137	345-3; 235-23; 2356-3; 2346-3		0.103	0.085
57	23.54	5:2 6:4	097 152 086	0.5185	245-23; 2356-26; 2345-2		0.344	0.281
58	23.71	5:2	081 087 117 125 115 145	0.5222	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26		0.589	0.482
59	23.86	5:2	116 085 111	0.5256	23456; 234-24; 235-35		0.357	0.293
60	24.02	6:4	120 136	0.5291	245-35; 236-236		0.220	0.163
61	24.11	5:2	077 110 148	0.5311	34-34; 236-34; 235-246		1.034	0.847
62	24.39	6:3	154		245-246		-	-
63	24.48	5:2	082	0.5392	234-23		0.239	0.196
64	24.79	6:3	151		2356-25		-	-
65	24.91	5:1 6:3	124 135	0.5487	345-25; 235-236		0.026	0.020
66	24.97	6:3	144	0.5500	2346-25		0.035	0.026
67	25.05	5:1 6:3	107 109 147	0.5518	234-35; 235-34; 2356-24		0.108	0.086
68	25.12	5:1	123		345-24		-	-
69	25.24	5:1 6:3	106 118 139 149	0.5559	2345-3; 245-34; 2346-24; 236-245		0.628	0.498
70	25.33	6:3	140		234-246		-	-
71	25.62	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26		-	-
72	25.82	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2		-	-
73	26.08	6:2	146 165 188		235-245; 2356-35; 2356-246		-	-
74	26.19	5:1 6:3	105 132 161	0.5769	234-34; 234-236; 2346-35		0.437	0.336
75	26.36	6:2	153		245-245		-	-
76	26.47	6:2	127 168 184		345-35; 246-345; 2346-246		-	-
77	26.87	6:2	141		2345-25		-	-
78	26.94	7:4	179		2356-236		-	-
79	27.13	6:2	137		2345-24		-	-
80	27.28	6:2 7:4	130 176	0.6009	234-235; 2346-236		0.018	0.014
82	27.50	6:2	138 163 164	0.6057	234-245; 2356-34; 236-345		0.158	0.117
83	27.68	6:2	158 160 186		2346-34; 23456-3; 23456-26		-	-
84	27.88	6:2	126 129		345-34; 2345-23		-	-
85	28.21	7:3	166 178		23456-4; 2356-235		-	-
87	28.51	7:3	175 159		2346-235; 2345-35		-	-
88	28.66	7:3	182 187		2345-246; 2356-245		-	-
89	28.76	6:2	128 162	0.6335	234-234; 235-345		0.036	0.026
90	28.94	7:3	183		2346-245		-	-
91	29.21	6:1	167		245-345		-	-
92	29.53	7:3	185		23456-25		-	-
93	29.88	7:3	174 181		2345-236; 23456-24		-	-
94	30.13	7:3	177		2356-234		-	-
95	30.42	6:1 7:3	156 171	0.6700	2345-34; 2346-234		0.051	0.036
96	30.69	8:4	157 202		234-345; 2356-2356		-	-
98	30.85	7:3	173		23456-23		-	-
99	31.21	8:4	201		2346-2356		-	-
100	31.45	7:2	172 204		2345-235; 23456-246		-	-
101	31.71	8:4	192 197		23456-35; 2346-2346		-	-
102	31.90	7:2	180		2345-245		-	-
103	32.15	7:2	193		2356-345		-	-
104	32.45	7:2	191		2346-345		-	-
105	32.78	8:4	200 169		23456-236; 345-345		-	-
106	33.90	7:2	170		2345-234		-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	34.15	7:2	<b>190</b>		23456-34	-	-
108	34.98	8:3	<b>198</b>		23456-235	-	-
109	35.22	8:3	<b>199</b>		2345-2356	-	-
110	35.74	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.86	7:1	<b>189</b>		2345-345	-	-
112	38.35	8:3	<b>195</b>		23456-234	-	-
113	38.85	9:4	<b>208</b>		23456-2356	-	-
114	39.76	9:4	<b>207</b>		23456-2346	-	-
115	41.12	8:2	<b>194</b>		2345-2345	-	-
116	41.98	8:2	<b>205</b>		23456-345	-	-
117	46.94	9:3	<b>206</b>		23456-2345	-	-
118	52.76	10:4	<b>209</b>		23456-23456	-	-

Concentration = 179 ng/L

Total Nanomoles = 0.670

Average Molecular Weight = 267.3

Number of Calibrated Peaks Found = 69

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

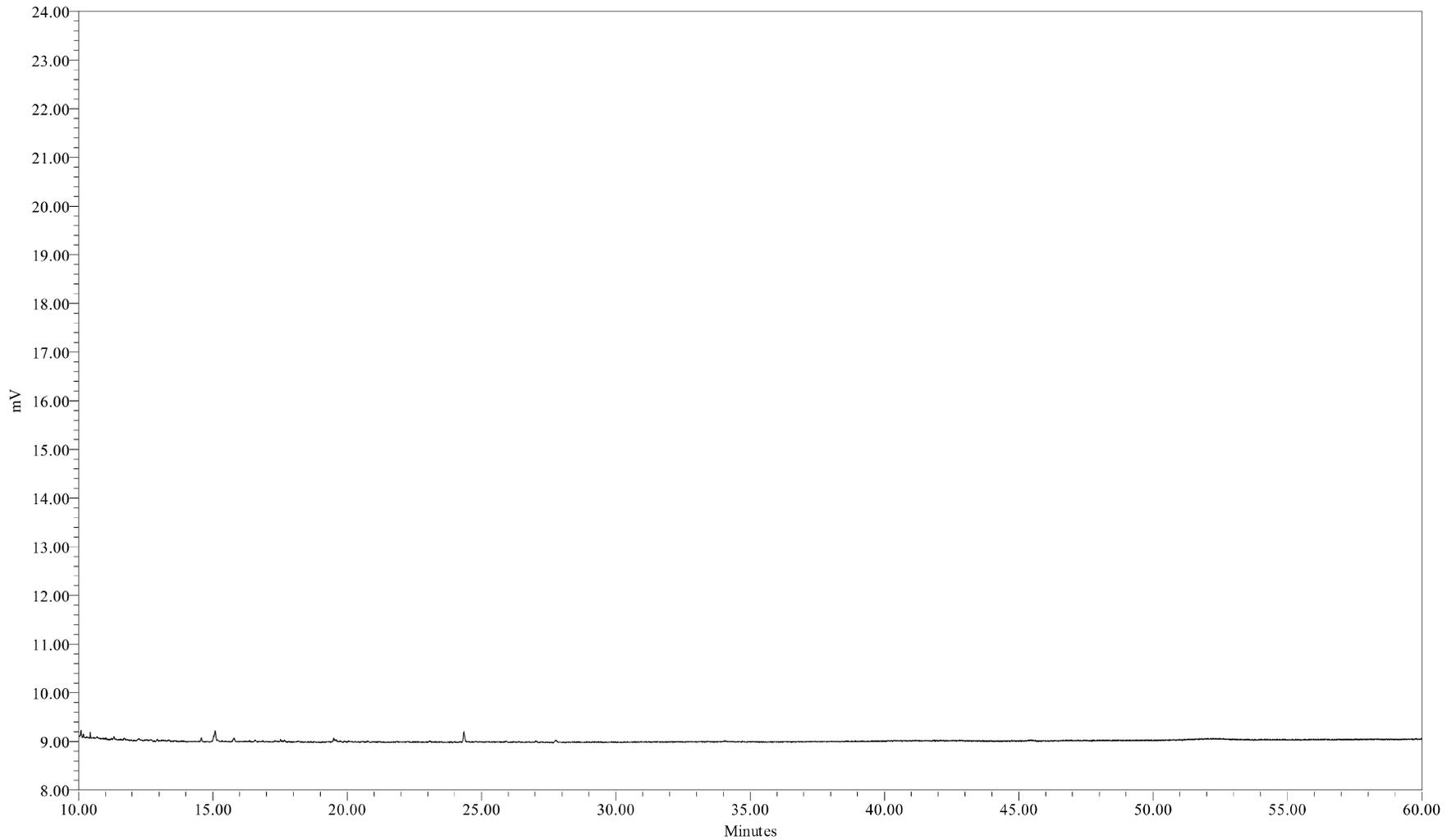
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



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Sample Name: 090531B01  
Sample ID: HEXANE BLANK  
Date Acquired: 5/31/2009 9:17:05 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_051909  
LIMS File ID: GC24-73-1

Sample Name: 090531B01

1 of 1

# MDL Studies

## Pooled Modified Green Bay Method MDL 1 Liter

Compiled May 2009

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL	
Water Column	PCBs (1 liter)	Total PCB (sum of congeners)	1336-36-3	Modified Green Bay Mass Balance Method (NEA 207_03)	ng/L	9.10	32.2	
		DB-1 Peak:	02	2051-60-7	NEA 207_03	ng/L	0.529	2.19
			03	2051-61-8	NEA 207_03	ng/L	6.63	1000
			04	2051-62-9	NEA 207_03	ng/L	0.355	1.28
			05	13029-08-8 33146-45-1	NEA 207_03	ng/L	0.134	0.621
			06	33284-50-3 34883-39-1	NEA 207_03	ng/L	0.0721	0.219
			07	25569-80-6	NEA 207_03	ng/L	0.158	0.347
			08	16605-91-7 34883-43-7	NEA 207_03	ng/L	0.542	2.56
			09	34883-41-5	NEA 207_03	ng/L	0.294	25.0
			10	38444-73-4	NEA 207_03	ng/L	0.0604	0.102
			11	35693-92-6	NEA 207_03	ng/L	0.198	25.0
			12	2050-67-1	NEA 207_03	ng/L	0.306	25.0
			13	2974-92-7 2974-90-5	NEA 207_03	ng/L	0.0559	0.0975
			14	2050-68-2 37680-65-2	NEA 207_03	ng/L	0.128	0.676
			15	37680-66-3	NEA 207_03	ng/L	0.143	0.676
			16	55702-45-9 38444-76-7	NEA 207_03	ng/L	0.0374	0.047
			17	38444-78-9 38444-77-8	NEA 207_03	ng/L	0.166	0.713
			19	55720-44-0 37680-68-5 15968-05-5	NEA 207_03	ng/L	0.128	25.0
			20	15862-07-4	NEA 207_03	ng/L	0.0108	0.0194
			21	38444-81-4	NEA 207_03	ng/L	0.0606	0.132
			22	55712-37-3	NEA 207_03	ng/L	0.0426	0.0585
			23	16606-02-3	NEA 207_03	ng/L	0.487	0.753
			24	7012-37-5 62796-65-0	NEA 207_03	ng/L	0.211	0.964
			25	38444-84-7 55702-46-0 38444-86-9 41464-41-9	NEA 207_03	ng/L	0.105	0.726
			26	38444-85-8 68194-04-7	NEA 207_03	ng/L	0.120	0.530
			27	70362-45-7	NEA 207_03	ng/L	0.0367	0.163
			28	38444-87-0	NEA 207_03	ng/L	0.375	25.0
			29	41464-47-5	NEA 207_03	ng/L	0.127	0.127
			30	38444-88-1	NEA 207_03	ng/L	0.120	25.0
			31	35693-99-3 60233-24-1 74338-23-1	NEA 207_03	ng/L	0.204	0.872
			32	70362-46-8 41464-40-8	NEA 207_03	ng/L	0.0978	0.420
			33	53555-66-1 2437-79-8	NEA 207_03	ng/L	0.0656	0.183
			34	70362-47-9 32598-12-2	NEA 207_03	ng/L	0.0579	0.183
			35	54230-22-7 33284-54-7	NEA 207_03	ng/L	0.205	25.0
			36	37680-69-6	NEA 207_03	ng/L	0.144	25.0
			37	56558-16-8 41464-39-5	NEA 207_03	ng/L	0.160	0.786
			38	38444-90-5 36559-22-5 74472-33-6	NEA 207_03	ng/L	0.115	0.475
			39	52663-59-9 52663-58-8 41464-46-4 41464-42-0	NEA 207_03	ng/L	0.121	0.749
			41	73575-52-7 73575-54-9	NEA 207_03	ng/L	0.115	25.0
			42	38444-93-8	NEA 207_03	ng/L	0.0968	0.172
			43	70424-67-8 60145-21-3	NEA 207_03	ng/L	0.152	25.0
			44	41464-49-7 73575-53-8 39485-83-1	NEA 207_03	ng/L	0.0225	0.0402

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		45	74472-34-7	NEA 207_03	ng/L	0.0299	0.0384
		46	32690-93-0 73575-55-0 33284-53-6	NEA 207_03	ng/L	0.0821	0.347
		47	32598-11-1	NEA 207_03	ng/L	0.164	0.621
		48	32598-10-0 70362-48-0 60233-25-2 33284-52-5 73575-56-1 38379-99-6 68194-06-9 55215-17-3	NEA 207_03	ng/L	0.243	1.32
		49	74338-24-2 68194-05-8 56558-18-0	NEA 207_03	ng/L	0.0376	0.093
		50	41464-43-1 33025-41-1	NEA 207_03	ng/L	0.359	0.640
		51	52663-60-2 52663-61-3 33979-03-2	NEA 207_03	ng/L	0.0888	0.329
		52	73575-57-2	NEA 207_03	ng/L	0.0384	0.0384
		53	68194-07-0 37680-73-2	NEA 207_03	ng/L	0.0691	0.329
		54	41464-48-6 38380-01-7 68194-10-5	NEA 207_03	ng/L	0.101	0.135
		55	56558-17-9 68194-08-1	NEA 207_03	ng/L	0.00644	0.0102
		56	70362-49-1 60145-20-2 74472-36-9 70362-41-3	NEA 207_03	ng/L	0.0647	0.0647
		57	41464-51-1 68194-09-2 55312-69-1	NEA 207_03	ng/L	0.0435	0.102
		58	70362-50-4 38380-02-8 68194-11-06 74472-39-2 39635-32-0 74472-38-1 74472-40-5	NEA 207_03	ng/L	0.0841	0.212
		59	18259-05-7 65510-45-4	NEA 207_03	ng/L	0.0484	0.128
		60	68194-12-7 38411-22-2	NEA 207_03	ng/L	0.0772	0.137
		61	32598-13-3 38380-03-9 74472-41-6	NEA 207_03	ng/L	0.0668	0.389
		62	60145-22-4	NEA 207_03	ng/L	0.113	25.0
		63	52663-62-4	NEA 207_03	ng/L	0.0201	0.0804
		64	52663-63-5	NEA 207_03	ng/L	0.0518	0.311
		65	70424-70-3 52744-13-5	NEA 207_03	ng/L	0.0149	0.0530
		66	68194-14-9	NEA 207_03	ng/L	0.0541	0.110
		67	70424-68-9 74472-35-8 68194-13-8	NEA 207_03	ng/L	0.0348	0.0475
		68	65510-44-3	NEA 207_03	ng/L	0.125	25.0
		69	70424-69-0 31508-00-6 56030-56-9 38380-04-0	NEA 207_03	ng/L	0.0938	0.731
		70	59291-64-4	NEA 207_03	ng/L	0.0829	25.0
		71	74472-37-0 52704-70-8 68194-15-0	NEA 207_03	ng/L	0.0348	0.0369
		72	76842-07-4 61798-70-7 35694-04-3 41411-61-4	NEA 207_03	ng/L	0.00638	0.0106
		73	51908-16-8 74472-46-1 74487-85-7	NEA 207_03	ng/L	0.0320	0.0713
		74	32598-14-4 38380-05-1 74472-43-8	NEA 207_03	ng/L	0.0721	0.248

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		75	35065-27-1	NEA 207_03	ng/L	0.109	0.538
		76	39635-33-1 59291-65-5 74472-48-3	NEA 207_03	ng/L	0.107	25.0
		77	52712-04-6	NEA 207_03	ng/L	0.064	0.311
		78	52663-64-6	NEA 207_03	ng/L	0.0470	0.267
		79	35694-06-5	NEA 207_03	ng/L	0.0501	0.0501
		80	52663-66-8 52663-65-7	NEA 207_03	ng/L	0.0151	0.0475
		82	35065-28-2 74472-44-9 74472-45-0	NEA 207_03	ng/L	0.108	0.493
		83	74472-42-7 41411-62-5 74472-49-4	NEA 207_03	ng/L	0.0450	0.0457
		84	57465-28-8 55215-18-4	NEA 207_03	ng/L	0.00310	0.00473
		85	41411-63-6 52663-67-9	NEA 207_03	ng/L	0.0677	0.201
		87	40186-70-7 39635-35-3	NEA 207_03	ng/L	0.0156	0.0731
		88	60145-23-5 52663-68-0	NEA 207_03	ng/L	0.102	0.658
		89	38380-07-3 39635-34-2	NEA 207_03	ng/L	0.0199	0.0366
		90	52663-69-1	NEA 207_03	ng/L	0.0679	0.311
		91	52663-72-6	NEA 207_03	ng/L	0.0348	0.0348
		92	52712-05-7	NEA 207_03	ng/L	0.0225	0.0859
		93	38411-25-5 74472-47-2	NEA 207_03	ng/L	0.102	0.585
		94	52663-70-4	NEA 207_03	ng/L	0.0936	0.311
		95	38380-08-4 52663-71-5	NEA 207_03	ng/L	0.0871	0.144
		96	69782-90-7 2136-99-4	NEA 207_03	ng/L	0.00942	0.0121
		98	68194-16-1	NEA 207_03	ng/L	0.0133	0.0139
		99	40186-71-8	NEA 207_03	ng/L	0.0863	0.0863
		100	52663-74-8 74472-52-9	NEA 207_03	ng/L	0.127	0.127
		101	74472-51-8 33091-17-7	NEA 207_03	ng/L	0.217	0.217
		102	35065-29-3	NEA 207_03	ng/L	0.150	1.11
		103	69782-91-8	NEA 207_03	ng/L	0.0640	0.0768
		104	74472-50-7	NEA 207_03	ng/L	0.0374	0.0438
		105	52663-73-7 32774-16-6	NEA 207_03	ng/L	0.0460	0.0786
		106	35065-30-6	NEA 207_03	ng/L	0.0538	0.234
		107	41411-64-7	NEA 207_03	ng/L	0.0213	0.0768
		108	68194-17-2	NEA 207_03	ng/L	0.0324	0.0438
		109	52663-75-9	NEA 207_03	ng/L	0.116	0.768
		110	42740-50-1 52663-76-0	NEA 207_03	ng/L	0.184	0.786
		111	39635-31-9	NEA 207_03	ng/L	0.0231	0.0231
		112	52663-78-2	NEA 207_03	ng/L	0.0368	0.101
		113	52663-77-1	NEA 207_03	ng/L	0.0438	0.0902
		114 (surrogate)	52663-79-3	NEA 207_03	ng/L	0.0154	0.0340
		115	35694-08-7	NEA 207_03	ng/L	0.0969	0.329
		116	74472-53-0	NEA 207_03	ng/L	0.0838	0.084
		117	40186-72-9	NEA 207_03	ng/L	0.0384	0.124
		118	2051-24-3	NEA 207_03	ng/L	0.0126	0.0126

Note:

\*\* - Peak 114 corresponds to IUPAC 207, which is the surrogate.

# Particulate Organic Carbon

**Form 1**  
**PARTICULATE ORGANIC CARBON (POC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050314  
**Instrument ID:** DC-190

NEA Sample ID	Client Sample ID	Matrix	Date Received	Date Analyzed	Concentration	Units	Concentration Qualifier	Qualifier
AM06268	WFF-BDUP-090529-BT001	Water	05/29/2009	05/30/2009	0.362	mg/L		
AM06269	WFF-LHAL-090529-BT001	Water	05/29/2009	05/30/2009	0.370	mg/L		
AM06270	WFF-LHPO-090529-BT001	Water	05/29/2009	05/30/2009	0.902	mg/L		
AM06271	WFF-MOCO-090529-BT001	Water	05/29/2009	05/30/2009	0.523	mg/L		
AM06272	WFF-WAFA-090529-BT001	Water	05/29/2009	05/30/2009	0.629	mg/L		
AM06273	WFF-WAFO-090529-BT001	Water	05/29/2009	05/30/2009	0.487	mg/L		

**Form 2**  
**CONTINUING CALIBRATION VERIFICATION SUMMARY**  
**PARTICULATE ORGANIC CARBON (POC)**

**Laboratory Name:** Northeast Analytical, Inc.

**ELAP ID No:** NYS ELAP #11078

**SDG No:** 09050314

**Instrument ID:** DC-190

**Continuing Calibration Source  
(NIST traceable):** RICCA TOC 2901492

**Units:** ug

**True Concentration:** 70.0

NEA Sample ID	Date Analyzed	Found	Percent <sup>1</sup> Recovery
POC CCV-01	05/30/2009	67.4	96.3
POC CCV-02	05/30/2009	65.6	93.7

<sup>1</sup>Control Limits : 85% to 115%

### Form 3

## CONTINUING CALIBRATION BLANK VERIFICATION SUMMARY PARTICULATE ORGANIC CARBON (POC)

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050314  
**Instrument ID:** DC-190

Continuing Calibration Blank			
NEA Sample ID	Date Analyzed	Concentration (mg/L)	Concentration Qualifier
CCB-01	05/30/2009	72.0	U
CCB-02	05/30/2009	72.0	U

**Form 4**  
**SPIKE SAMPLE RECOVERY SUMMARY**  
**PARTICULATE ORGANIC CARBON (POC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050314  
**Instrument ID:** DC-190  
**Matrix:** Water  
**NEA Sample ID:** AM06270M  
**NEA LRF ID:** 09050314-03MS  
**Date Analyzed:** 05/30/2009

Sample Result	Concentration Qualifier	Sample Spiked Result	Concentration Qualifier	Spike Added	Units	Percent Recovery	Control Limit % Rec	Qualifier	RPD	RPD Flag	Control Limit
0.902		2.85		3.125	mg/L	62.3	60-140		NA		NA

**Form 5**  
**DUPLICATE SAMPLE SUMMARY**  
**PARTICULATE ORGANIC CARBON (POC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050314  
**Instrument ID:** DC-190  
**Matrix:** Water  
**NEA Sample ID:** AM06270D  
**NEA LRF ID:** 09050314-03  
**Date Analyzed:** 05/30/2009

Sample Result	Concentration Qualifier	Duplicate Result	Concentration Qualifier	Units	RPD	Max RPD	Qualifier
0.902		0.985		mg/L	8.8	20	

**Form 6**  
**PREPARATION BLANK**  
**PARTICULATE ORGANIC CARBON (POC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050314  
**Instrument ID:** DC-190  
**Matrix:** Water  
**NEA Sample ID:** AM06270PB  
**NEA LRF ID:** 09050314-03  
**Date Analyzed:** 05/30/2009

<b>Blank Result (mg/L)</b>	<b>Concentration Qualifier</b>	<b>Qualifier</b>
0.0630	U	

# TOTAL ORGANIC CARBON LOGBOOK

Batch ID: 411      Date: 04/13/2009      Instrument: DC-190      Calibration Date: 04/13/2009      Analyst: Judith Kricheff

Oxygen flow (psig): 30      Range: HIGH      Inverse Slope: 0.00171      Intercept: NA  
 Baseline value: 1.82      CCV Std Lot: 1847-16 Lot# 2708196      Blank Area: 1577



Prep ID	NEA Sample ID	Alt Sample ID	Used	Matrix	Boat Num	Dilution Factor	Acid Added	Sample Wt (g)	Sample Vol (mL)	Area	TOC Results (ppm)	Spike Conc (ug)	% Rec	RPD	% RSD	Comments
16360	CCB-00		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	1636	<72					
16361	CCB-00		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	1518	<72					
16348	Cal Std-1-01		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	4865	80.3210	4.99				
16349	Cal Std-1-01		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	4740	77.2680	4.99				
16350	Cal Std-2-02		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	7712	149.869	10.04				
16351	Cal Std-2-02		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	7669	148.819	10.04				
16352	Cal Std-3-03		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	59440	1413.51	100.11				
16353	Cal Std-3-03		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	59290	1409.85	100.11				
16354	Cal Std-4-04		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	148600	3591.56	250.03				
16355	Cal Std-4-04		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	147200	3557.36	250.03				
16356	Cal Std-5-05		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	289500	7033.55	500.06				
16357	Cal Std-5-05		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	284100	6901.63	500.06				
16358	Cal Std-6-06		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	474800	11560.2	799.9				
16359	Cal Std-6-06		<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	NA	0.07	470800	11462.4	799.9				

\* Results are based on a dry weight basis.

Analyst Review: *Judith Kricheff*

QA Review: *MA 4/20/09*

# Northeast Analytical Inc.

Date: 04/13/09

Analytical Worksheet for TOC in Solids

File ID: S:\Lab Data\METALS\TOC\Data 09\TOCDC190calibration041309.xls\A

Calibration Date: 04/13/09

rev. 12/04/01wk

Blank  
Corrected

Cal. Standards: ID#	Absorption Y(x)	Concentration x-ug	Calculated concentration	% Recovery
5.04	3225.5	5.04	5.53	109.7%
10.08	6113.500	10.08	10.48	104%
100.8	57788.00	100.80	99.06	98%
250.32	146323	250.32	250.84	100%
500.08	285223.0	500.08	488.95	98%
800.8	471223.0	800.80	807.80	100.9%

Cal. Level (ug)	Replicate 1	Replicate 2	Average	%RPD
Blank	1636	1518	1577	7.48
5.04	4865	4740	3225.5	2.60
10.08	7712	7669	6113.5	0.6
100.8	59440	59290	57788	0.253
250.32	148600	147200	146323	0.95
500.08	289500	284100	285223	1.883
800.8	474800	470800	471223	0.846

Calibration Blank Absorption= 1577



## SUMMARY OUTPUT

### Regression Statistics

Multiple R	0.999824677
R Square	0.999649385
Adjusted R Square	0.799649385
Standard Error	3467.037226
Observations	6

### ANOVA

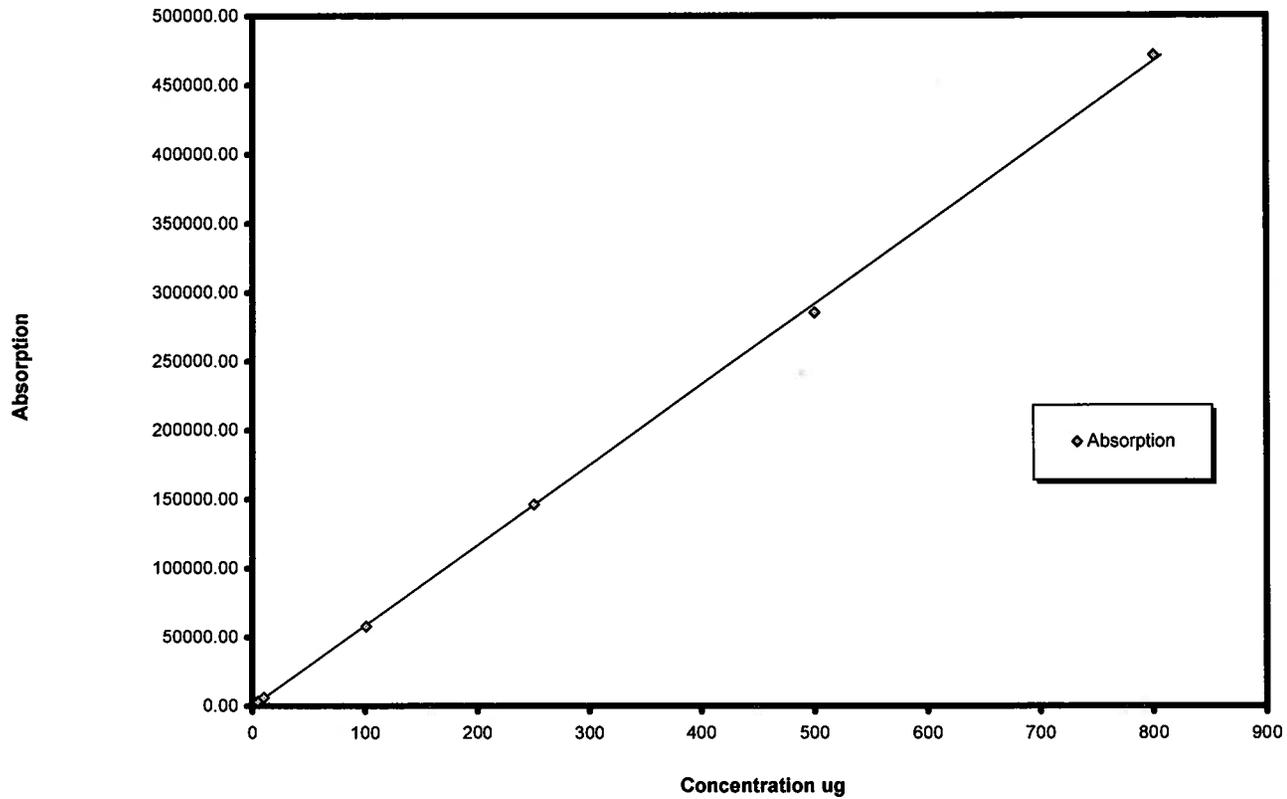
	df	SS	MS	F	Significance F
Regression	1	1.71358E+11	1.71358E+11	14255.64354	2.95104E-08
Residual	5	60101735.64	12020347.13		
Total	6	1.71418E+11			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	583.3405397	3.53061637	165.223428	1.5409E-10	574.2648162	592.4162632

Inverse Slope= 0.00171

Theoretical Conc. ug	Calculated Calc. Conc. ug	Absorption Response
5.04	5.53	3225.50
10.08	10.48	6113.50
100.8	99.06	57788.00
250.32	250.84	146323.00
500.08	488.95	285223.00
800.8	807.80	471223

**CALIBRATION CURVE**  
**04/13/2009**



# PARTICULATE ORGANIC CARBON LOGBOOK



Batch ID: **258**      Date: 05/30/2009      Instrument: DC-190      Calibration Date: 04/13/2009      Analyst: Jonathan Jordan

Oxygen flow (psig): 30      Range: HIGH      Inverse Slope: 0.00171      Intercept: NA  
 Baseline value: 2.00      CCV Std Lot: RICCA TOC 2901492      Blank Area: 1577

Prep ID	NEA Sample ID	Alt Sample ID	Used	Matrix	Boat Num	Dilution Factor	Acid Added	Sample Vol (mL)	Area	POC Results (ppm)	Spike Conc (ug)	% Rec	RPD	Comments
6756	CCV-01	AM06270L	<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	0.07	40990	962.803	70	96.3		
6757	CCB-01	AM06270B	<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	0.07	1761	<72				
6753	POC Blank-01	AM06270PB	<input checked="" type="checkbox"/>	L	PB	1	<input checked="" type="checkbox"/>	80	994.4	<0.063				
6739	09050314-03	AM06270	<input checked="" type="checkbox"/>	L	1	1	<input checked="" type="checkbox"/>	80	43790	0.902000				
6754	09050314-03DUP	AM06270D	<input checked="" type="checkbox"/>	L	2	1	<input checked="" type="checkbox"/>	80	47650	0.985000			8.80	
6755	09050314-03MS	AM06270M	<input checked="" type="checkbox"/>	L	3	1	<input checked="" type="checkbox"/>	80	134900	2.85000	250	62.3		
6737	09050314-01	AM06268	<input checked="" type="checkbox"/>	L	4	1	<input checked="" type="checkbox"/>	80	18510	0.362000				
6738	09050314-02	AM06269	<input checked="" type="checkbox"/>	L	5	1	<input checked="" type="checkbox"/>	80	18880	0.370000				
6740	09050314-04	AM06271	<input checked="" type="checkbox"/>	L	6	1	<input checked="" type="checkbox"/>	80	26050	0.523000				
6741	09050314-05	AM06272	<input checked="" type="checkbox"/>	L	7	1	<input checked="" type="checkbox"/>	80	30990	0.629000				
6742	09050314-06	AM06273	<input checked="" type="checkbox"/>	L	8	1	<input checked="" type="checkbox"/>	80	24350	0.487000				
6758	CCV-02	AM06275L	<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	0.07	39950	937.398	70	93.7		
6759	CCB-02	AM06275B	<input checked="" type="checkbox"/>	L		1	<input checked="" type="checkbox"/>	0.07	1386	<72				

Notes: \* Results are based on a dry weight basis.

Analyst Review: \_\_\_\_\_

*Jonathan Jordan 5/30/09*

QA Review: \_\_\_\_\_

*me 5/30/09*

Print Date: 05/30/2009

Nea Lims Version: 4.4.4.1

\_WL\_POC\_LOGBOOK, Rev 0.1; 11.03.2005; INORG



**CERTIFICATE OF ANALYSIS**  
**05/30/2009**  
**GENERAL ELECTRIC COMPANY**  
**300 GREAT OAKS OFFICE PARK**  
**SUITE 319**  
**ALBANY, NY 12203**  
**CONTACT: ROBERT GIBSON**



<b>MATRIX:</b>	WATER	<b>PROJECT:</b>	HUDSON RIVER RAMP
<b>DATE RECEIVED:</b>	05/29/2009	<b>TIME:</b>	18:25
<b>SAMPLED BY:</b>	C. SZABLEWSKI	<b>LOCATION:</b>	NY
<b>CUSTOMER PO:</b>	N/A	<b>LAB ELAP#:</b>	11078
		<b>NEA LRF:</b>	09050314

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Particulate Organic Carbon - RAMP</b>								
AM06268	WFF-BDUP-090529-BT001	NE128_06	05/29/2009 N/A	0.362	0.0630		mg/L	05/30/2009
AM06269	WFF-LHAL-090529-BT001	NE128_06	05/29/2009 11:39	0.370	0.0630		mg/L	05/30/2009
AM06270	WFF-LHPO-090529-BT001	NE128_06	05/29/2009 14:38	0.902	0.0630		mg/L	05/30/2009
AM06271	WFF-MOCO-090529-BT001	NE128_06	05/29/2009 10:18	0.523	0.0630		mg/L	05/30/2009
AM06272	WFF-WAFA-090529-BT001	NE128_06	05/29/2009 09:12	0.629	0.0630		mg/L	05/30/2009
AM06273	WFF-WAFO-090529-BT001	NE128_06	05/29/2009 09:01	0.487	0.0630		mg/L	05/30/2009

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.  
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Sr. Laboratory Representative  
Robert E. Wagner  
Laboratory Director

# Dissolved Total Organic Carbon

**Form 1**  
**TOTAL ORGANIC CARBON (TOC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050314  
**Instrument ID:** TOC-V CSH2

NEA Sample ID	Client Sample ID	Matrix	Date Received	Date Analyzed	Concentration	Units	Concentration Qualifier	Qualifier
AM06268	WFF-BDUP-090529-BT001	DISS	05/29/2009	05/30/2009	3.55	mg/L		
AM06269	WFF-LHAL-090529-BT001	DISS	05/29/2009	05/30/2009	3.52	mg/L		
AM06270	WFF-LHPO-090529-BT001	DISS	05/29/2009	05/30/2009	3.54	mg/L		
AM06271	WFF-MOCO-090529-BT001	DISS	05/29/2009	05/30/2009	3.60	mg/L		
AM06272	WFF-WAFA-090529-BT001	DISS	05/29/2009	05/30/2009	3.68	mg/L		
AM06273	WFF-WAFO-090529-BT001	DISS	05/29/2009	05/30/2009	3.53	mg/L		

**Form 2**  
**CONTINUING CALIBRATION VERIFICATION SUMMARY**  
**TOTAL ORGANIC CARBON (TOC)**

**Laboratory Name:** Northeast Analytical, Inc.

**ELAP ID No:** NYS ELAP #11078

**SDG No:** 09050314

**Instrument ID:** TOC-V CSH2

**Continuing Calibration Source  
(NIST traceable):** 053009B7P46

**Units:** mg/L

**True Concentration:** 5.00

NEA Sample ID	Date Analyzed	Found	Percent <sup>1</sup> Recovery
TOC CCV-01	05/30/2009	5.09	102
TOC CCV-02	05/30/2009	4.68	93.7

<sup>1</sup>Control Limits : 85% to 115%

**Form 3**

**CONTINUING CALIBRATION BLANK VERIFICATION SUMMARY  
TOTAL ORGANIC CARBON (TOC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050314  
**Instrument ID:** TOC-V CSH2

<b>Continuing Calibration Blank</b>			
<b>NEA Sample ID</b>	<b>Date Analyzed</b>	<b>Concentration (mg/L)</b>	<b>Concentration Qualifier</b>
CCB-01	05/30/2009	0.500	U
CCB-02	05/30/2009	0.500	U

**Form 4**  
**SPIKE SAMPLE RECOVERY SUMMARY**  
**TOTAL ORGANIC CARBON (TOC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050314  
**Instrument ID:** TOC-V CSH2  
**Matrix:** DISS  
**NEA Sample ID:** AM06270M  
**NEA LRF ID:** 09050314-03MS  
**Date Analyzed:** 05/30/2009

Sample Result	Concentration Qualifier	Sample Spiked Result	Concentration Qualifier	Spike Added	Units	Percent Recovery	Control Limit % Rec	Qualifier	RPD	RPD Flag	Control Limit
3.54		13.3		10	mg/L	97.9	60-140		NA		NA

**Form 5**  
**DUPLICATE SAMPLE SUMMARY**  
**TOTAL ORGANIC CARBON (TOC)**

**Laboratory Name:** Northeast Analytical, Inc.  
**ELAP ID No:** NYS ELAP #11078  
**SDG No:** 09050314  
**Instrument ID:** TOC-V CSH2  
**Matrix:** DISS  
**NEA Sample ID:** AM06270D  
**NEA LRF ID:** 09050314-03  
**Date Analyzed:** 05/30/2009

Sample Result	Concentration Qualifier	Duplicate Result	Concentration Qualifier	Units	RPD	Max RPD	Qualifier
3.54		3.57		mg/L	0.912	20	

Date of Creation 8:49:36 AM 3/19/2009  
 User  
 System TOCV csh 2

Cal. Curve

Sample Name: Untitled  
 Sample ID: Untitled  
 Cal. Curve: NPOC dilution.2009\_05\_25\_09\_13\_23.cal  
 Status Completed  
 Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.5554	50uL	1	*****	E	5/25/2009 9:21:41 A
2	0.4058	50uL	1	*****		5/25/2009 9:23:46 A
3	0.3184	50uL	1	*****		5/25/2009 9:25:51 A

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 0.3621  
 SD Area 0.06180  
 CV Area 17.07%  
 Vial 1

Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	2.633	50uL	10	*****		5/25/2009 9:34:51 A
2	2.735	50uL	10	*****		5/25/2009 9:37:09 A

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 2.684  
 SD Area 0.07212  
 CV Area 2.69%  
 Vial 2

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	5.130	50uL	5	*****		5/25/2009 9:44:23 A
2	5.059	50uL	5	*****		5/25/2009 9:46:44 A

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 5.095  
 SD Area 0.05020  
 CV Area 0.99%  
 Vial 2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	24.74	50uL	1	*****		5/25/2009 9:53:38 A
2	24.85	50uL	1	*****		5/25/2009 9:56:19 A

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 24.80  
 SD Area 0.07778  
 CV Area 0.31%  
 Vial 2

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	50.56	50uL	5	*****		5/25/2009 10:05:56
2	50.43	50uL	5	*****		5/25/2009 10:08:52

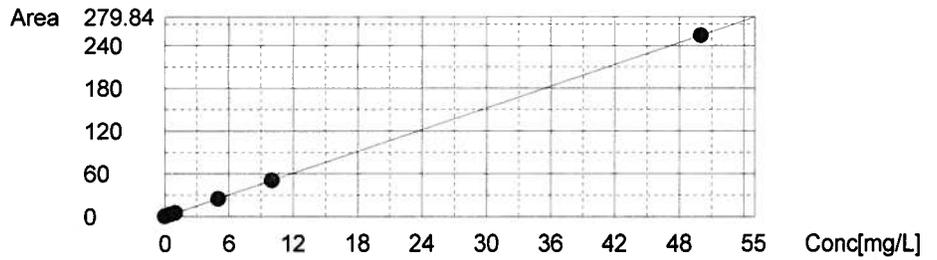
Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 50.50  
 SD Area 0.09192  
 CV Area 0.18%  
 Vial 3

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	253.8	50uL	1	*****		5/25/2009 10:16:29
2	255.0	50uL	1	*****		5/25/2009 10:19:32

Acid Add. 1.500%  
 Sp. Time 90.00sec  
 Mean Area 254.4  
 SD Area 0.8485  
 CV Area 0.33%  
 Vial 3

Slope: 5.087  
 Intercept 0.000  
 $r^2$  0.999986  
 r 0.999993  
 Zero Shift Yes



# TOTAL ORGANIC CARBON LOGBOOK



Batch ID: **221**      Date: 05/30/2009    Instrument: TOC-V CSH2    Calibration Date: 05/25/2009    Analyst: Jonathan Jordan

Oxygen flow (psig): 30      Range: LOW      Slope: 5.087      Intercept: 0  
 Baseline value: NA      CCV Std Lot: 053009B7P46      Blank Area: 0.3621

Prep ID	NEA Sample ID	Alt Sample ID	Used	Matrix	Dilution Factor	Acid Added	Sample Vol (mL)	Area	TOC <sup>1</sup> Results (ppm)	TOC <sup>2</sup> Results (ppm)	Spike Conc (ppm)	% Rec	RPD	Comments
9569	CCV-01	AM06270L	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	25.915	N/A	5.09400	5	102		
9570	CCB-01	AM06270B	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	0.6179	N/A	<0.5				
9553	09050314-03	AM06270	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	18	N/A	3.53818				
9567	09050314-03DUP	AM06270D	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	18.165	N/A	3.57062			0.912	
9568	09050314-03MS	AM06270M	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	67.79	N/A	13.3252	10	97.9		
9551	09050314-01	AM06268	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	18.075	N/A	3.55293				
9552	09050314-02	AM06269	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	17.885	N/A	3.51558				
9554	09050314-04	AM06271	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	18.325	N/A	3.60207				
9555	09050314-05	AM06272	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	18.7	N/A	3.67578				
9556	09050314-06	AM06273	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	17.97	N/A	3.53229				
9571	CCV-02	AM06275L	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	23.83	N/A	4.68416	5	93.7		
9572	CCB-02	AM06275B	<input checked="" type="checkbox"/>	DISS	1	<input checked="" type="checkbox"/>	0.05	0.5267	N/A	<0.5				

- Note: 1.) Unaveraged TOC results.  
 2.) All TOC results are the average of two analyses.  
 3.) Matrix DISS denotes dissolved or filtered sample.

Analyst Review: Jonathan Jordan 5/30/09    QA Review: me 5/30/09



**CERTIFICATE OF ANALYSIS**  
**05/30/2009**  
**GENERAL ELECTRIC COMPANY**  
**300 GREAT OAKS OFFICE PARK**  
**SUITE 319**  
**ALBANY, NY 12203**  
**CONTACT: ROBERT GIBSON**



**MATRIX:** WATER(DISS)

**DATE RECEIVED:** 05/29/2009 **TIME:** 18:25

**SAMPLED BY:** C. SZABLEWSKI

**CUSTOMER PO:** N/A

**PROJECT:** HUDSON RIVER RAMP

**LOCATION:** NY

**LAB ELAP#:** 11078

**NEA LRF:** 09050314

NEA ID	CUSTOMER ID	METHOD	DATE-TIME SAMPLED	RESULTS	PQL	FLAG	UNITS	DATE ANALYZED
<b>Dissolved Total Organic Carbon - RAMP</b>								
AM06268	WFF-BDUP-090529-BT001	NE128_06	05/29/2009 N/A	3.55	0.500		mg/L	05/30/2009
AM06269	WFF-LHAL-090529-BT001	NE128_06	05/29/2009 11:39	3.52	0.500		mg/L	05/30/2009
AM06270	WFF-LHPO-090529-BT001	NE128_06	05/29/2009 14:38	3.54	0.500		mg/L	05/30/2009
AM06271	WFF-MOCO-090529-BT001	NE128_06	05/29/2009 10:18	3.60	0.500		mg/L	05/30/2009
AM06272	WFF-WAFA-090529-BT001	NE128_06	05/29/2009 09:12	3.68	0.500		mg/L	05/30/2009
AM06273	WFF-WAFO-090529-BT001	NE128_06	05/29/2009 09:01	3.53	0.500		mg/L	05/30/2009

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.  
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

William A. Kotas  
Sr. Laboratory Representative  
Robert E. Wagner  
Laboratory Director

PCB SAMPLE DATA SUMMARY PACKAGE FOR:

ANCHOR QUANTITATIVE ENVIRONMENTAL ANALYSIS, LLC  
305 WEST GRAND AVENUE  
MONTVALE, NEW JERSEY 07645

TOTAL PCB by Method SOP NE273\_01  
Quick TAT Aroclor Method

DATE: June 25, 2009-B

LRF: 09060293

PROVIDED BY : NORTHEAST ANALYTICAL, INC.  
2190 TECHNOLOGY DRIVE  
SCHENECTADY, NEW YORK 12308  
518-346-4592



TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
CASE NARRATIVE .....	4
SAMPLE CHAIN OF CUSTODY .....	6
INTERNAL SAMPLE TRACKING RECORD .....	8
SURROGATE % RECOVERY SUMMARY .....	11
LABORATORY CONTROL SPIKE % RECOVERY SUMMARY .....	13
METHOD BLANK SUMMARY .....	15
SAMPLE ANALYSIS DATA .....	17
ANALYTICAL SEQUENCE (GC23F) .....	27
INITIAL CALIBRATION DATA (GC23F) .....	30
INITIAL/CONTINUING CALIBRATION DATA (GC23F).....	95
ANALYTICAL SEQUENCE (GC23B).....	108
INITIAL CALIBRATION DATA (GC23B).....	112
INITIAL/CONTINUING CALIBRATION DATA (GC23B).....	177
QC RAW DATA .....	198
CERTIFICATES OF ANALYSIS .....	206

# Case Narrative

June 29, 2009

CASE NARRATIVE

This data package (NEA SDG ID: 09060293) consists of 2 water samples received on 6/24/2009. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AM08570	WFF-THIS-090624-AT001	6/24/2009 08:27
AM08571	WFF-TIDA-090624-AT001	6/24/2009 08:30

Sample Delivery and Receipt Conditions

- (1.) Northeast Analytical provided sample pickup service on 6/24/2009.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 5.2 degrees Celsius. Please see Chain of Custody for details.

PCB Aroclor Analysis

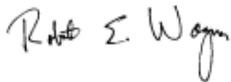
Analysis for PCB Aroclors was performed by NE273\_01 (Quick TAT Aroclor Method). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.

Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the PQL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



Robert E. Wagner  
Laboratory Director & Founder

# Sample Chain Of Custody



305 West Grand Avenue Morristown, NJ 07965 Ph: 201-930-9890

Client: General Electric Company

### ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC090624-ANEA-01

Sample Custodian: JR

Lab: NEA

COC Sample Number	Field Sample ID	QA/QC	MS	MSD	LD	Matrix	Date Collected	Time Collected	Media	# Containers	4degC	4degC							
											Aroclor PCBs EPA 508	CS PCBs NEZ07_08							
001	WFF-LOC5-090624-AT001	ENV	N	N	N	W	06/24/2009	08:45	W	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
002	WFF-SCHU-090624-AT001	ENV	N	N	N	W	06/24/2009	09:29	W	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
003	WFF-THIS-090624-AT001	ENV	N	N	N	W	06/24/2009	08:27	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
004	WFF-TIDA-090624-AT001	ENV	N	N	N	W	06/24/2009	08:30	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
005	WFF-WAFA-090624-AT001	ENV	N	N	N	W	06/24/2009	11:54	W	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
006	WFF-WAFO-090624-AT001	ENV	N	N	N	W	06/24/2009	11:46	W	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						

AM08568  
 AM08569  
 AM08570  
 AM08571  
 AM08572  
 AM08573

Comments: Cooler temp = 5.2°C

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature: <i>JPR</i>	Signature: <i>Michael Conway</i>	Signature: <i>M. Conway</i>	Signature: <i>K. Scherby</i>	Signature:	Signature:
Print Name: John Rock	Print Name: Michael Conway	Print Name: M. Conway	Print Name: K. Scherby	Print Name:	Print Name:
Company: AG	Company: NEA	Company: NEA	Company: NEA	Company:	Company:
Date/Time: 6/24/09 14:15	Date/Time: 6/24/09 19:05	Date/Time: 6/24/09 19:05	Date/Time: 6/24/09 19:05	Date/Time:	Date/Time:

Date Printed: 6/24/2009

\* S = SEDIMENT, W = WATER \*\* T = Total, D = Dissolved, R = Residue  
 \*\*\* Air Tight Container; preserved at lab if not analyzed within 48 hrs.

Page 1 of 1

# Internal Sample Tracking Record

AQUEOUS EXTRACTION LOG



Prep Date: 06/24/2009

Batch ID: 8301

Initial for required Clean Up Steps

	Prep ID	NEA Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Cell Num	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Initial for required Clean Up Steps			Final Ext. Vol (mL)	Date Conc (MM/DD)	Comments	
														Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)				
1	80295	PBLK-82	AM08528B	Water	5	E PCB W	SPE-1L	L1	1000	NA	NA	NA	NA	06/24	NA	06/24	06/24	5	06/24	
2	80296	LCS-82	AM08528L	Water	5	E PCB W	SPE-1L	L2	1000	NA	NA	NA	NA	06/24	NA	06/24	06/24	5	06/24	
4	80410	09060293-03	AM08570	Water	5	E PCB W	SPE-1L	L4	960	NA	NA	NA	NA	06/24	NA	06/24	06/24	5	06/24	
5	80411	09060293-04	AM08571	Water	5	E PCB W	SPE-1L	L5	1040	NA	NA	NA	NA	06/24	NA	06/24	06/24	5	06/24	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	050815	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil	090202F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane (current)	CY224	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (current)	CY140	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane (current)	CY891	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.05ppm TCMX / 0.5ppm DCBP in Acetone	050109B27P49A1-10	500	0.05 / 0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only) current	090507A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane (Dewar) Current	CZ145B	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 0.5ppm in Acetone	052709B27P82A	500	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk	H03N27	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol	49093	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SPIKED BY: Heather Gansky

WITNESSED BY: Tara Snay

SIGNATURE: Heather Gansky

SIGNATURE: Tara Snay

# PCB AQUEOUS SCREEN SHEET

Batch ID: 8301

Prepared by: Kelly Ryan

NEA Sample ID	Alt Sample ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result <small>KLL</small>	Dilution Sequence <small>KLL</small>	Final Multiplier <small>KLL</small>
PBLK-82	AM08528B	Water	06/24/09	1000	5	NA	N/A	N/A	Sx
LCS-82	AM08528L	Water	06/24/09	1000	5	NA			
09060293-03	AM08570	Water	06/24/09	960	5	NA	↓	↓	↓
09060293-04	AM08571	Water	06/24/09	1040	5	NA	N/A	N/A	Sx

**Solvent, Surrogate, Spike, and Acid Information**

B=Blank, L=Lab Control Spike, LD=Lab Control Spike Duplicate, S=Sample, D=Duplicate, M=Matrix Spike, K=Matrix Spike Duplicate

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	050815	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil	090202F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane (current)	CY224	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (current)	CY140	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane (current)	CY891	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.05ppm TCMX / 0.5ppm DCBP in Acetone	050109B27P49A1-10	500	0.05 / 0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only) current	090507A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane (Dewar) Current	CZ145B	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 0.5ppm in Acetone	052709B27P82A	500	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk	H03N27	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol	49093	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS: \_\_\_\_\_

# Surrogate % Recovery Summary

**2E-1  
PCB SURROGATE RECOVERY**

Laboratory Name: Northeast Analytical, Inc.

SDG: 09060293

ELAP ID No: 11078

GC Column (1): J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

GC Column (2): NA

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-82	AM08528B	GC23B-100-7	80.6	95.8			0
LCS-82	AM08528L	GC23B-100-8	79.8	95.0			0
09060293-03	AM08570	GC23F-106-2	79.9	73.1			0
09060293-04	AM08571	GC23F-106-3	80.8	72.7			0

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (70-130)

SURR2 = DECACHLOROBIPHENYL (70-130)

# Laboratory Control Spike Summary

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Northeast Analytical, Inc.

ELAP ID No: <u>11078</u>	SDG No: <u>09060293</u>
LCS ID: <u>LCS-82</u>	Blank Sample ID: <u>PBLK-82</u>
LCS File ID: <u>GC23B-100-8</u>	Method Blank File ID: <u>GC23B-100-7</u>
LCS Inj Date: <u>06/24/2009 10:53:06</u>	Method Blank Inj Date: <u>06/24/2009 10:20:32</u>
LCS NEA ID No: <u>AM08528L</u>	Method Blank NEA ID No: <u>AM08528B</u>
LCS Matrix: <u>Water</u>	Method Blank Matrix: <u>Water</u>

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS PERCENT RECOVERY #	QC LIMITS <sup>1</sup> PERCENT RECOVERY
Aroclor 1242	0.250	0.215	85.8	70.0-130

# Column to be used to flag recovery values

<sup>1</sup>QC Limits based upon laboratory defaults.

\* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

COMMENTS:

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# Method Blank Summary

**4C-1**  
**PCB METHOD BLANK SUMMARY**

Laboratory Name: <u>Northeast Analytical, Inc.</u>	SDG No: <u>09060293</u>
ELAP ID No: <u>11078</u>	Blank Sample ID: <u>PBLK-82</u>
Matrix: <u>Water</u>	Method Blank Nea ID No: <u>AM08528B</u>
Instrument ID: <u>GC23B</u>	Lab File ID: <u>GC23B-100-7</u>
Extraction Type: <u>Solid Phase Extraction - 1L</u>	Date Extracted: <u>06/24/2009</u>
GC Column (1): <u>J&amp;W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm</u>	Date Analyzed: <u>06/24/2009</u>
	Time Analyzed: <u>10:20:32</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-82(LAB CONTROL SPIKE)	AM08528L	GC23B-100-8	06/24/2009 10:53:06
WFF-THIS-090624-AT001	AM08570	GC23F-106-2	06/25/2009 01:02:55
WFF-TIDA-090624-AT001	AM08571	GC23F-106-3	06/25/2009 01:35:29

# Sample Analysis Data

**1D-1  
PCB ANALYSIS DATA SHEET**

Laboratory Name: <u>Northeast Analytical, Inc.</u>	SDG No: <u>09060293</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>09060293-03</u>
Matrix: <u>Water</u>	Client ID: <u>WFF-THIS-090624-AT001</u>
Sample wt(Dry)/vol: <u>960 mL</u>	Lab Sample ID: <u>AM08570</u>
Percent Moisture: <u>100</u>	Date Received: <u>06/24/2009</u>
Extraction: <u>Solid Phase Extraction - 1L</u>	Date Extracted: <u>06/24/2009</u>
Conc. Extract Volume: <u>5000 uL</u>	Date Analyzed: <u>06/25/2009</u>
Method: <u>NE273_01 (Quick TAT Aroclor Method)</u>	Dilution Factor: <u>1</u>
	Sulfur Cleanup: <u>YES</u>

**Column 1 Information:**

GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm  
 Injection Volume: 1.0 uL  
 Lab File ID: GC23F-106-2

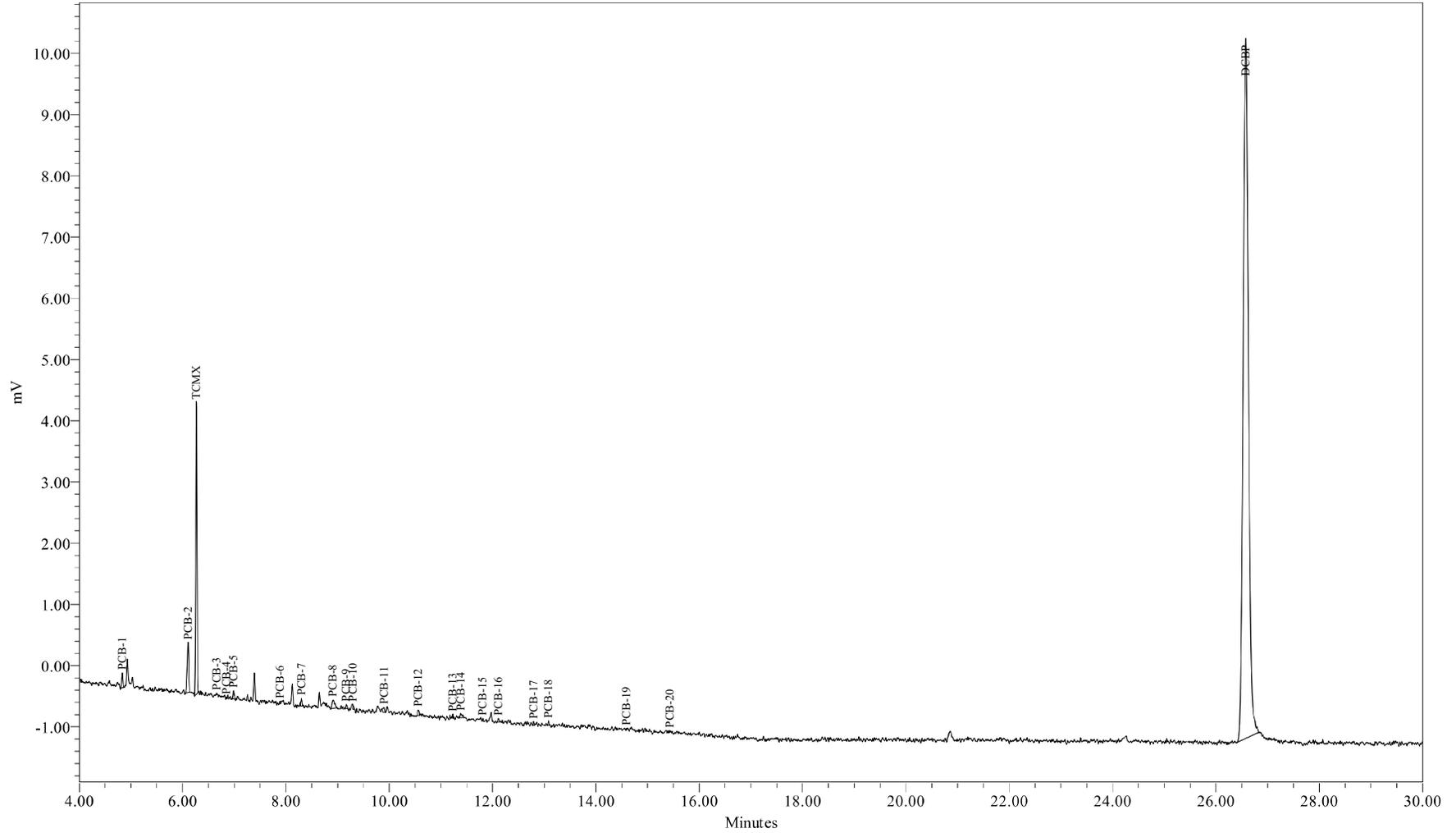
**Column 2 Information:**

GC Column: NA  
 Injection Volume: NA  
 Lab File ID: NA

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0260	U
1	11104-28-2	Aroclor 1221	0.153	PB
1	11141-16-5	Aroclor 1232	0.0260	U
1	53469-21-9	Aroclor 1242	0.0164	AD,J
1	12672-29-6	Aroclor 1248	0.0260	U
1	11097-69-1	Aroclor 1254	0.0260	U
1	11096-82-5	Aroclor 1260	0.0260	U

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.



Sample Name: AM08570  
Sample ID: WFF-THIS-090624-AT001  
Date Acquired: 6/25/2009 1:02:55 AM EDT

Sample Amount (L) : 0.9600  
Dilution: 5  
Processing Method: GC23F\_CCLL\_040709  
LIMS File ID: GC23F-106-2

Sample Name: AM08570

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name:	AM08570	Sample Amount (L) :	0.9600
Sample ID:	WFF-THIS-090624-AT001	Dilution:	5
Date Acquired:	6/25/2009 1:02:55 AM EDT	Extract Volume:	5
Project Name:	GC23F_Apr_2009	Date Processed:	6/25/2009 4:13:12 AM EDT
Sample Set Name:	GC23F_W_062509	User Name:	Kari Lantiegne (KariL)
Processing Method:	GC23F_CCLL_040709	Current Date:	6/25/2009
Run Time:	30.0 Minutes	Current Time:	4:25:37 AM US/Eastern
Report Name:	H2O_rpt_LIMS2_ugL	LIMS File ID:	GC23F-106-2

Peak Results

	Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1	PCB-1	4.833	bb	378			
2	PCB-2	6.108	bb	1717			
3	TCMX	6.268	bb	7827	4.010	79.9	
4	PCB-3	6.659	bb	19			
5	PCB-4	6.847	bb	19			
6	PCB-5	6.988	bb	212			
7	PCB-6	7.884	bb	52			
8	PCB-7	8.301	Vb	180			
9	PCB-8	8.911	bb	457			
10	PCB-9	9.168	bb	111			
11	PCB-10	9.293	vb	81			
12	PCB-11	9.897	vb	173			
13	PCB-12	10.560	bb	185			
14	PCB-13	11.229	bb	54			
15	PCB-14	11.382	bV	146			
16	PCB-15	11.811	bb	36			
17	PCB-16	12.112	bb	94			
18	PCB-17	12.794	bb	63			
19	PCB-18	13.084	bb	80			
20	PCB-19	14.589	bV	22			
21	PCB-20	15.428	bb	24			
22	DCBP	26.579	bb	81489	36.698		73.1

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Amount ug/L	PQL ug/L	MDL ug/L	Report	Note
1	A1016	881.6274	3.093	0.01611	0.0260	0.00634	NR	
2	A1221	2344.7110	29.404	0.15314	0.0260	0.00634	X	PB
3	A1221-2	627.9561	8.294	0.04320	0.0260	0.00634	NR	

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Amount ug/L	PQL ug/L	MDL ug/L	Report	Note
4	A1221-4	2325.3951	33.701	0.17552	0.0260	0.00634	NR	
5	A1221-5	2133.0239	53.080	0.27646	0.0260	0.00634	NR	
6	A1232	1040.8746	6.496	0.03383	0.0260	0.00634	NR	
7	A1232-8/9	472.9064	6.044	0.03148	0.0260	0.00634	NR	
8	A1242	881.6274	3.158	0.01645	0.0260	0.00634	X	AD,J
9	A1248	594.0315	2.008	0.01046	0.0260	0.00634	NR	
10	A1248-11/15	385.3489	2.281	0.01188	0.0260	0.00634	NR	
11	A1248-14/15	411.6132	3.334	0.01736	0.0260	0.00634	NR	
12	A1254	283.4704	1.044	0.00544	0.0260	0.00634	NR	
13	A1254-17/18	140.3113	0.516	0.00269	0.0260	0.00634	NR	
14	A1254-19/20	237.1902	1.140	0.00594	0.0260	0.00634	NR	
15	A1254-20	259.4055	1.101	0.00573	0.0260	0.00634	NR	
16	A1260	24.0648			0.0260	0.00634	NR	
17	A1260-23/24	24.0648			0.0260	0.00634	NR	

Curve: GC23F\_040709

Sample Calculation

First Order (1/X) Weighted Linear Regression with intercept (Initial Calibration)

$$Y = A + (B * x)$$

Y = Response  $\mu$ V-sec (sum of 5 quant peaks)

A = Constant (intercept)  $\mu$ V-sec

B = First Order Coefficient (slope)

x = Solution Concentration (ng/mL)

For Aroclor 1221

$$\begin{aligned} A &= 4.976848 \\ B &= 79.573089 \end{aligned}$$

$$X = \frac{Y - 4.976848}{79.573089}$$

For Sample NEA ID: AM08570

$$\text{Aroclor 1221 } Y = 2344.711 \text{ } \mu\text{V} * \text{ sec}$$

$$X = \frac{2344.711 - 4.976848}{79.573089} = 29.40359 \text{ ng/mL}$$

$$\text{Final Concentration} = \frac{(x)(v_t)(D.F.)(1/1000)}{(M)}$$

$v_t$  = Extract Volume (mL)

D.F. = Analytical Dilution Factor

M = Wet weight (L)

Sample: AM08570

$$\frac{(29.403585827867)\text{ng/mL}(5)\text{mL}(1)(1\mu\text{g}/1000\text{ng})}{(0.96)\text{L}} = 0.153 \text{ } \mu\text{g/L}$$

**1D-1  
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09060293</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>09060293-04</u>
Matrix:	<u>Water</u>	Client ID:	<u>WFF-TIDA-090624-AT001</u>
Sample wt(Dry)/vol:	<u>1040 mL</u>	Lab Sample ID:	<u>AM08571</u>
Percent Moisture:	<u>100</u>	Date Received:	<u>06/24/2009</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Extracted:	<u>06/24/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Analyzed:	<u>06/25/2009</u>
Method:	<u>NE273_01 (Quick TAT Aroclor Method)</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

**Column 1 Information:**

GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm  
 Injection Volume: 1.0 uL  
 Lab File ID: GC23F-106-3

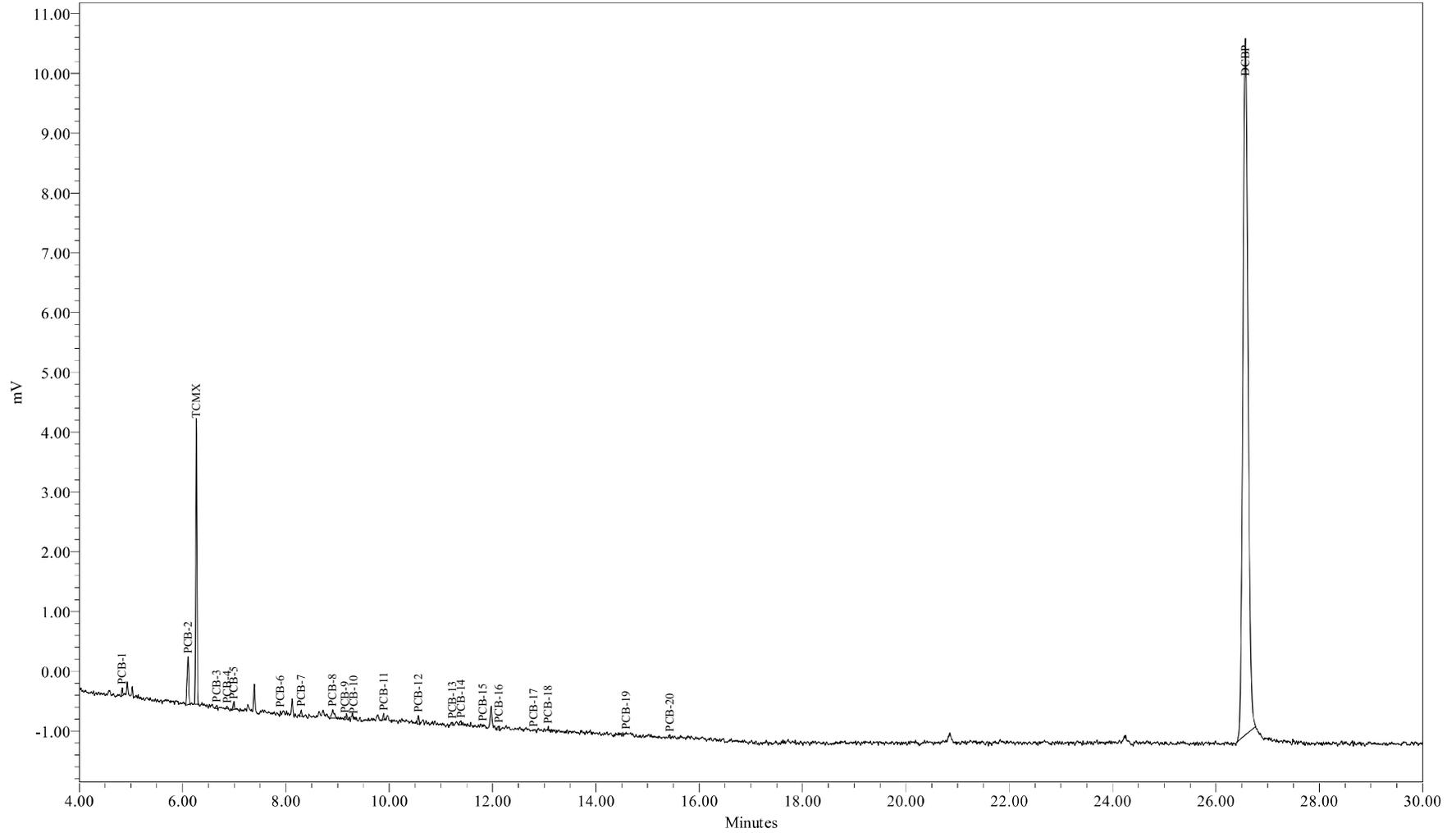
**Column 2 Information:**

GC Column: NA  
 Injection Volume: NA  
 Lab File ID: NA

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	Q
			UG/L	
1	12674-11-2	Aroclor 1016	0.0250	U
1	11104-28-2	Aroclor 1221	0.139	PB
1	11141-16-5	Aroclor 1232	0.0250	U
1	53469-21-9	Aroclor 1242	0.0144	AD,J
1	12672-29-6	Aroclor 1248	0.0250	U
1	11097-69-1	Aroclor 1254	0.0250	U
1	11096-82-5	Aroclor 1260	0.0250	U

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.



Sample Name: AM08571  
Sample ID: WFF-TIDA-090624-AT001  
Date Acquired: 6/25/2009 1:35:29 AM EDT

Sample Amount (L) : 1.0400  
Dilution: 5  
Processing Method: GC23F\_CLL\_040709  
LIMS File ID: GC23F-106-3

Sample Name: AM08571

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name:	AM08571	Sample Amount (L) :	1.0400
Sample ID:	WFF-TIDA-090624-AT001	Dilution:	5
Date Acquired:	6/25/2009 1:35:29 AM EDT	Extract Volume:	5
Project Name:	GC23F_Apr_2009	Date Processed:	6/25/2009 4:14:51 AM EDT
Sample Set Name:	GC23F_W_062509	User Name:	Kari Lantiegne (KariL)
Processing Method:	GC23F_CCLL_040709	Current Date:	6/25/2009
Run Time:	30.0 Minutes	Current Time:	4:25:54 AM US/Eastern
Report Name:	H2O_rpt_LIMS2_ugL	LIMS File ID:	GC23F-106-3

Peak Results

	Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1	PCB-1	4.830	bb	174			
2	PCB-2	6.106	bb	1761			
3	TCMX	6.266	bb	7909	4.054	80.8	
4	PCB-3	6.663	bb	82			
5	PCB-4	6.859	bb	84			
6	PCB-5	6.991	bb	200			
7	PCB-6	7.891	bb	88			
8	PCB-7	8.296	bb	195			
9	PCB-8	8.904	bb	443			
10	PCB-9	9.140	bv	79			
11	PCB-10	9.314	VV	34			
12	PCB-11	9.893	bb	155			
13	PCB-12	10.564	bb	249			
14	PCB-13	11.223	Vb	67			
15	PCB-14	11.385	bb	117			
16	PCB-15	11.812	bb	20			
17	PCB-16	12.126	Vb	84			
18	PCB-17	12.794	bb	8			
19	PCB-18	13.079	bb	64			
20	PCB-19	14.583	bb	27			
21	PCB-20	15.431	Vb	84			
22	DCBP	26.569	bb	81047	36.495		72.7

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Amount ug/L	PQL ug/L	MDL ug/L	Report	Note
1	A1016	839.6107	2.966	0.01426	0.0250	0.00609	NR	
2	A1221	2301.3241	28.858	0.13874	0.0250	0.00609	X	PB
3	A1221-2	540.4771	7.121	0.03424	0.0250	0.00609	NR	

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Amount ug/L	PQL ug/L	MDL ug/L	Report	Note
4	A1221-4	2216.8964	32.116	0.15441	0.0250	0.00609	NR	
5	A1221-5	2101.6127	52.307	0.25148	0.0250	0.00609	NR	
6	A1232	951.4553	5.908	0.02840	0.0250	0.00609	NR	
7	A1232-8/9	429.1048	5.418	0.02605	0.0250	0.00609	NR	
8	A1242	839.6107	3.005	0.01445	0.0250	0.00609	X	AD,J
9	A1248	608.9088	2.061	0.00991	0.0250	0.00609	NR	
10	A1248-11/15	433.6331	2.538	0.01220	0.0250	0.00609	NR	
11	A1248-14/15	471.3544	3.775	0.01815	0.0250	0.00609	NR	
12	A1254	266.8731	1.010	0.00486	0.0250	0.00609	NR	
13	A1254-17/18	194.8166	0.698	0.00335	0.0250	0.00609	NR	
14	A1254-19/20	155.5986	0.851	0.00409	0.0250	0.00609	NR	
15	A1254-20	182.9707	0.891	0.00428	0.0250	0.00609	NR	
16	A1260	83.9024			0.0250	0.00609	NR	
17	A1260-23/24	83.9024			0.0250	0.00609	NR	

# Analytical Sequence (GC-23F)

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Northeast Analytical, Inc.

SDG No: 09060293

ELAP ID No: 11078

Instrument ID: GC23F

Init. Calib. Date(s): 4/7/2009,4/8/2009

GC Column (1): J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
			TCMX RT: <u>6.26</u>	DCBP RT: <u>26.60</u>	
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT #	DCBP RT #
01	A1016 5 PPB	040716A	GC23F-30-3	04/07/2009 12:32:32	
02	A1016 10 PPB	040716B	GC23F-30-4	04/07/2009 13:05:07	
03	A1016 20 PPB	040716C	GC23F-30-5	04/07/2009 13:37:42	
04	A1016 50 PPB	040716D	GC23F-30-6	04/07/2009 14:10:19	
05	A1016 100 PPB	040716E	GC23F-30-7	04/07/2009 14:42:54	
06	A1221 5 PPB	040721A	GC23F-30-8	04/07/2009 15:15:30	
07	A1221 10 PPB	040721B	GC23F-30-9	04/07/2009 15:48:07	
08	A1221 20 PPB	040721C	GC23F-30-10	04/07/2009 16:20:41	
09	A1221 50 PPB	040721D	GC23F-30-11	04/07/2009 16:53:16	
10	A1221 100 PPB	040721E	GC23F-30-12	04/07/2009 17:25:51	
11	A1232 5 PPB	040732A	GC23F-30-13	04/07/2009 17:58:27	
12	A1232 10 PPB	040732B	GC23F-30-14	04/07/2009 18:31:04	
13	A1232 20 PPB	040732C	GC23F-30-15	04/07/2009 19:03:40	
14	A1232 50 PPB	040732D	GC23F-30-16	04/07/2009 19:36:16	
15	A1232 100 PPB	040732E	GC23F-30-17	04/07/2009 20:08:53	
16	A1242 5 PPB	040742A	GC23F-30-18	04/07/2009 20:41:31	
17	A1242 10 PPB	040742B	GC23F-30-19	04/07/2009 21:14:05	
18	A1242 20 PPB	040742C	GC23F-30-20	04/07/2009 21:46:40	
19	A1242 50 PPB	040742D	GC23F-30-21	04/07/2009 22:19:15	
20	A1242 100 PPB	040742E	GC23F-30-22	04/07/2009 22:51:50	
21	A1248 5 PPB	040748A	GC23F-30-23	04/07/2009 23:24:26	
22	A1248 10 PPB	040748B	GC23F-30-24	04/07/2009 23:57:01	
23	A1248 20 PPB	040748C	GC23F-30-25	04/08/2009 00:29:37	
24	A1248 50 PPB	040748D	GC23F-30-26	04/08/2009 01:02:12	
25	A1248 100 PPB	040748E	GC23F-30-27	04/08/2009 01:34:49	
26	A1254 5 PPB	040754A	GC23F-30-28	04/08/2009 02:07:23	6.26 26.60
27	A1254 10 PPB	040754B	GC23F-30-29	04/08/2009 02:39:57	6.26 26.59
28	A1254 20 PPB	040754C	GC23F-30-30	04/08/2009 03:12:32	6.26 26.59
29	A1254 50 PPB	040754D	GC23F-30-31	04/08/2009 03:45:07	6.27 26.60
30	A1254 100 PPB	040754E	GC23F-30-32	04/08/2009 04:17:42	6.27 26.60
31	A1260 5 PPB	040760A	GC23F-30-33	04/08/2009 04:50:17	
32	A1260 10 PPB	040760B	GC23F-30-34	04/08/2009 05:22:52	
33	A1260 20 PPB	040760C	GC23F-30-35	04/08/2009 05:55:27	
34	A1260 50 PPB	040760D	GC23F-30-36	04/08/2009 06:28:02	
35	A1260 100 PPB	040760E	GC23F-30-37	04/08/2009 07:00:37	
36	A1016 50 PPB	CS160407A	GC23F-30-39	04/08/2009 08:05:45	6.26 26.60
37	A1221 50 PPB	CS210407A	GC23F-30-40	04/08/2009 08:38:19	6.27 26.59
38	A1232 50 PPB	CS320407A	GC23F-30-41	04/08/2009 09:10:54	6.26 26.59

**8-D-1**  
**PCB ANALYTICAL SEQUENCE**

Laboratory Name: Northeast Analytical, Inc.

SDG No: 09060293

ELAP ID No: 11078

Instrument ID: GC23F

Init. Calib. Date(s): 4/7/2009,4/8/2009

GC Column (1): J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION						
			TCMX RT: <u>6.26</u>	DCBP RT: <u>26.60</u>		
	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT #	DCBP RT #
39	A1242 50 PPB	CS420407A	GC23F-30-42	04/08/2009 09:43:28	6.26	26.59
40	A1248 50 PPB	CS480407A	GC23F-30-43	04/08/2009 10:16:04	6.26	26.59
41	A1254 50 PPB	CS540407A	GC23F-30-44	04/08/2009 10:48:39	6.26	26.60
42	A1260 50 PPB	CS600407A	GC23F-30-45	04/08/2009 11:21:14	6.27	26.60
43	A1242 50 PPB	CS420624A	GC23F-105-18	06/24/2009 22:09:11	6.26	26.58
44	WFF-THIS-090624-AT001	AM08570	GC23F-106-2	06/25/2009 01:02:55	6.27	26.58
45	WFF-TIDA-090624-AT001	AM08571	GC23F-106-3	06/25/2009 01:35:29	6.27	26.57
46	ZZZZZ	ZZZZZ	GC23F-106-4	06/25/2009 02:08:03	6.27	26.58
47	A1248 50 PPB	CS480625A	GC23F-106-5	06/25/2009 02:40:37	6.27	26.57

# Initial Calibration Data (GC-23F)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Northeast Analytical, Inc.

SDG NO: 09060293

ELAP ID No: 11078

Date(s) Analyzed: 4/7/2009,4/8/2009

Instrument ID: GC23F

GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL <sup>1</sup> RF	MEAN RF	% RSD
Aroclor 1016	GC23F-30-3	040716A	5.00	314.703		
	GC23F-30-4	040716B	10.0	311.363		
	GC23F-30-5	040716C	20.0	312.304		
	GC23F-30-6	040716D	50.0	331.267		
	GC23F-30-7	040716E	100	329.425	319.812	3.0
Aroclor 1221	GC23F-30-8	040721A	5.00	84.240		
	GC23F-30-9	040721B	10.0	78.731		
	GC23F-30-10	040721C	20.0	77.042		
	GC23F-30-11	040721D	50.0	79.556		
	GC23F-30-12	040721E	100	80.188	79.951	3.3
Aroclor 1232	GC23F-30-13	040732A	5.00	160.599		
	GC23F-30-14	040732B	10.0	155.591		
	GC23F-30-15	040732C	20.0	160.858		
	GC23F-30-16	040732D	50.0	150.804		
	GC23F-30-17	040732E	100	153.044	156.179	2.9
Aroclor 1242	GC23F-30-18	040742A	5.00	266.991		
	GC23F-30-19	040742B	10.0	280.224		
	GC23F-30-20	040742C	20.0	284.116		
	GC23F-30-21	040742D	50.0	275.739		
	GC23F-30-22	040742E	100	273.677	276.149	2.4
Aroclor 1248	GC23F-30-23	040748A	5.00	296.175		
	GC23F-30-24	040748B	10.0	294.315		
	GC23F-30-25	040748C	20.0	265.987		
	GC23F-30-26	040748D	50.0	286.038		
	GC23F-30-27	040748E	100	285.877	285.678	4.2
Aroclor 1254	GC23F-30-28	040754A	5.00	458.429		
	GC23F-30-29	040754B	10.0	471.855		
	GC23F-30-30	040754C	20.0	482.149		
	GC23F-30-31	040754D	50.0	482.485		
	GC23F-30-32	040754E	100	499.407	478.865	3.2
Aroclor 1260	GC23F-30-33	040760A	5.00	729.745		
	GC23F-30-34	040760B	10.0	724.712		
	GC23F-30-35	040760C	20.0	736.556		
	GC23F-30-36	040760D	50.0	714.672		
	GC23F-30-37	040760E	100	689.365	719.010	2.6
TCMX	GC23F-30-28	040754A	1.00	2088.328		
	GC23F-30-29	040754B	2.50	2044.333		
	GC23F-30-30	040754C	4.00	1993.748		
	GC23F-30-31	040754D	5.00	1909.774		
	GC23F-30-32	040754E	8.00	1907.032	1988.640	4.0

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Northeast Analytical, Inc.

SDG NO: 09060293

ELAP ID No: 11078

Date(s) Analyzed: 4/7/2009,4/8/2009

Instrument ID: GC23F

GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL <sup>1</sup> RF	MEAN RF	% RSD
DCBP	GC23F-30-28	040754A	10.0	2262.374		
	GC23F-30-29	040754B	25.0	2302.741		
	GC23F-30-30	040754C	40.0	2209.437		
	GC23F-30-31	040754D	50.0	2221.118		
	GC23F-30-32	040754E	80.0	2185.442	2236.220	2.1

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.



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System Name:	Instrument_23_Ch01	Date Calibrated:	4/8/2009 7:00:25 AM EDT
Sample Set Name:	GC23F_LLCC_040709	Method Report:	CCSum by RF 02
Sample Set Date:	4/7/2009 11:25:17 AM EDT	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709		

Calibration Component Summary  
Table

Component Summary For RF

	Sample Name	A1016
1	040716A	314.7027
2	040716B	311.3634
3	040716C	312.3043
4	040716D	331.2673
5	040716E	329.4245
Mean		319.812
Std. Dev.		9.714
% RSD		3.04



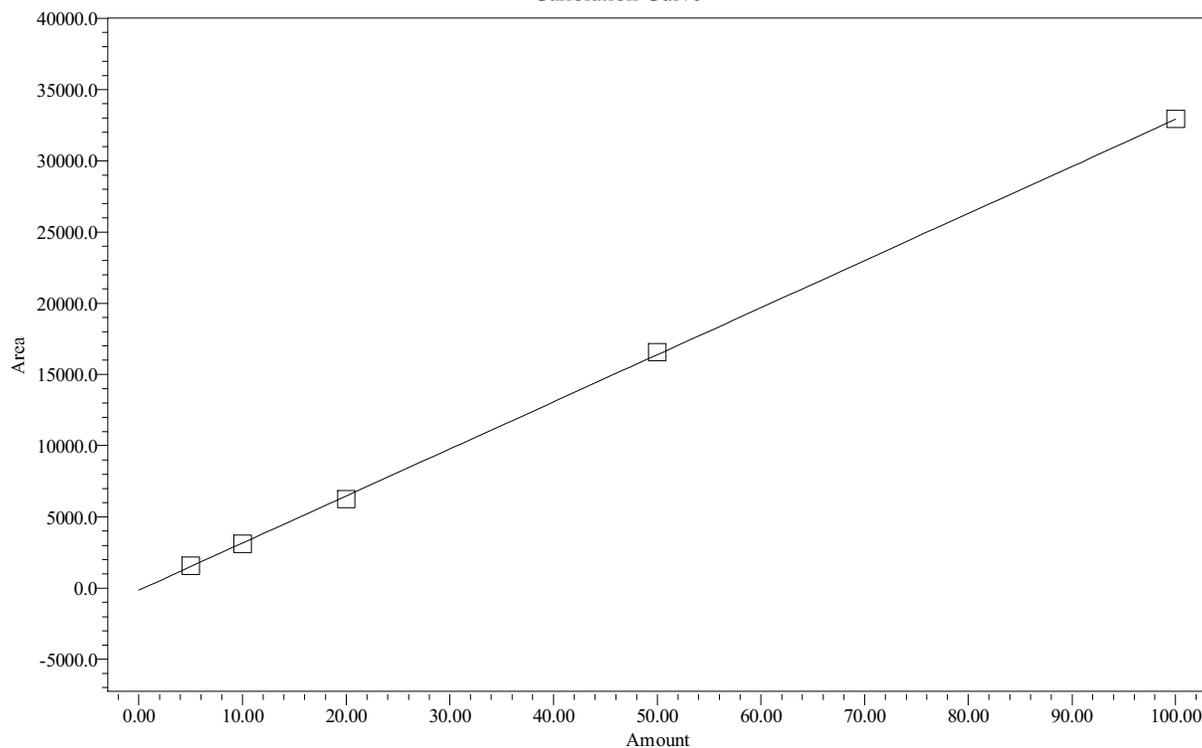
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Name:	A1016	Coefficient constant A:	-140.589929
System Name:	Instrument_23_Ch01	Coefficient first Order B:	330.497289
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999840
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999680

Calibration Curve



Point Table  
Peak: A1016

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1016	5.00	1574	5.2	3.729	No	No
2	A1016	10.00	3114	9.8	-1.536	No	No
3	A1016	20.00	6246	19.3	-3.378	No	No
4	A1016	50.00	16563	50.5	1.084	No	No
5	A1016	100.00	32942	100.1	0.101	No	No



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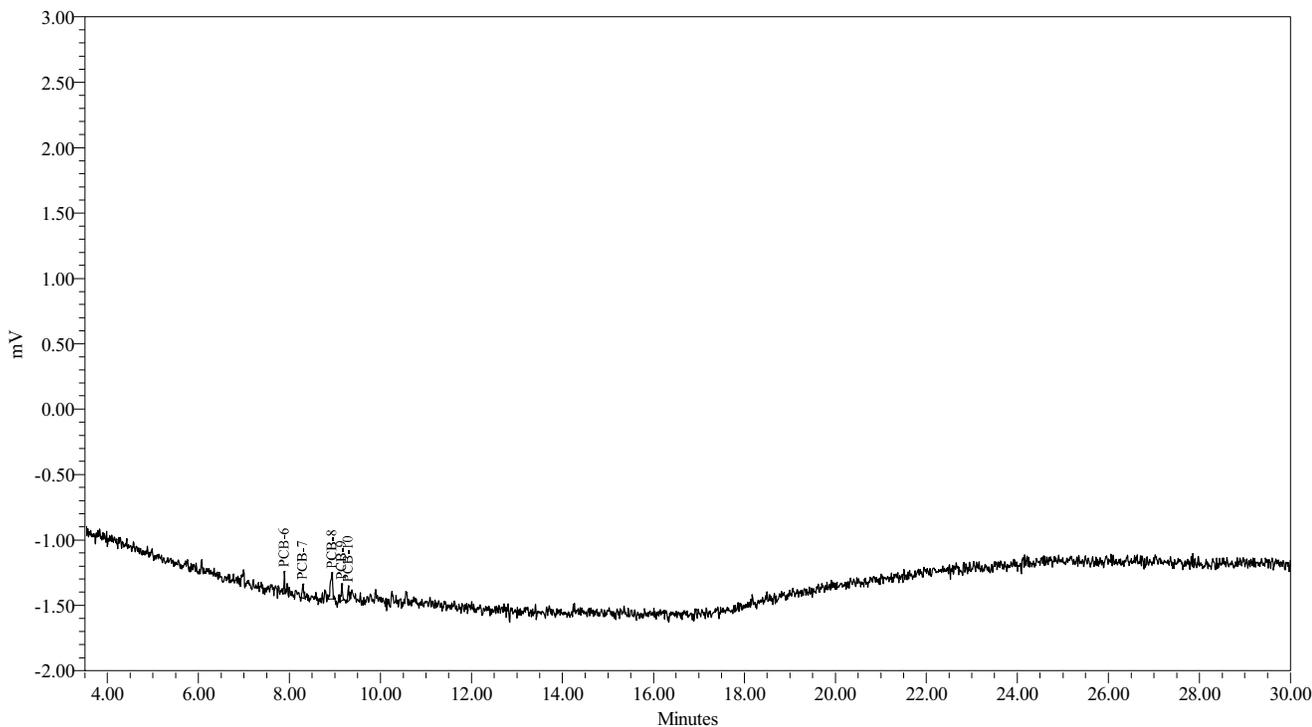
Sample Name:	040716A	Sample Amount:	1
Sample ID:	A1016 5 PPB	Dilution:	1
Date Acquired:	4/7/2009 12:32:32 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:29:16 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:14:54 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-3

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.891	bb	248
2 PCB-7	8.295	bv	213
3 PCB-8	8.939	bb	683
4 PCB-9	9.152	bb	252
5 PCB-10	9.295	vv	177

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	1574	5.000
2 A1232	1325	
3 A1232-8/9	390	
4 A1242	1574	





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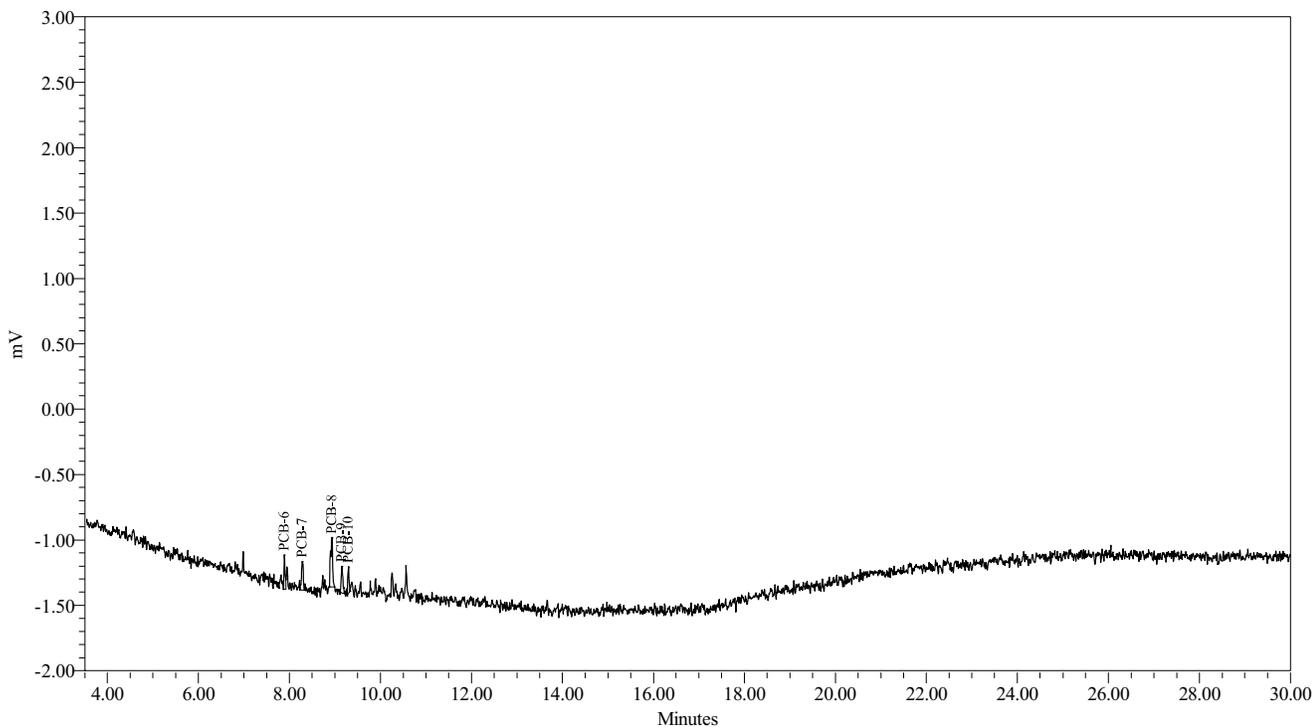
Sample Name:	040716B	Sample Amount:	1
Sample ID:	A1016 10 PPB	Dilution:	1
Date Acquired:	4/7/2009 1:05:07 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:25:27 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:10:10 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-4

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.890	bV	481
2 PCB-7	8.282	bb	557
3 PCB-8	8.935	bb	1215
4 PCB-9	9.152	bb	490
5 PCB-10	9.296	bb	370

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	3114	10.000
2 A1232	2633	
3 A1232-8/9	928	
4 A1242	3114	





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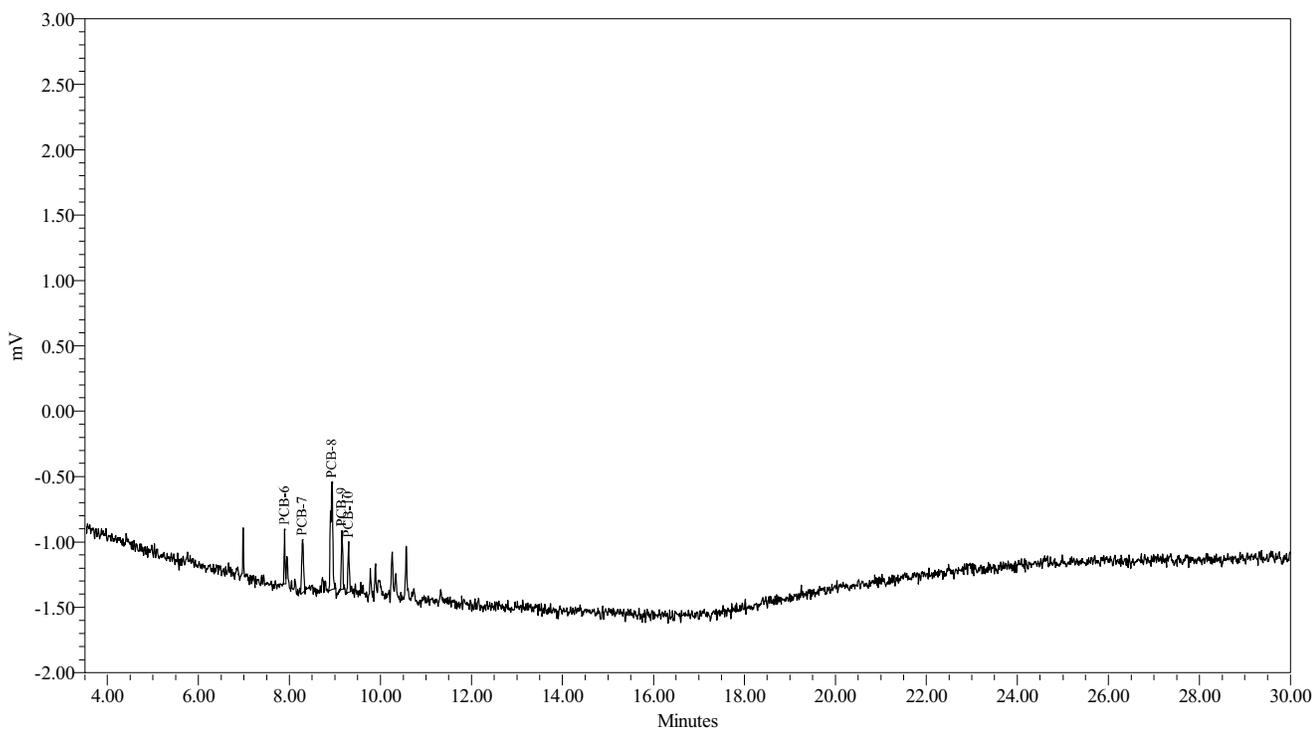
Sample Name:	040716C	Sample Amount:	1
Sample ID:	A1016 20 PPB	Dilution:	1
Date Acquired:	4/7/2009 1:37:42 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:26:02 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:10:19 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-5

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.894	bV	679
2 PCB-7	8.287	bb	1044
3 PCB-8	8.937	bb	2845
4 PCB-9	9.154	bb	903
5 PCB-10	9.300	bb	775

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	6246	20.000
2 A1232	5567	
3 A1232-8/9	1819	
4 A1242	6246	





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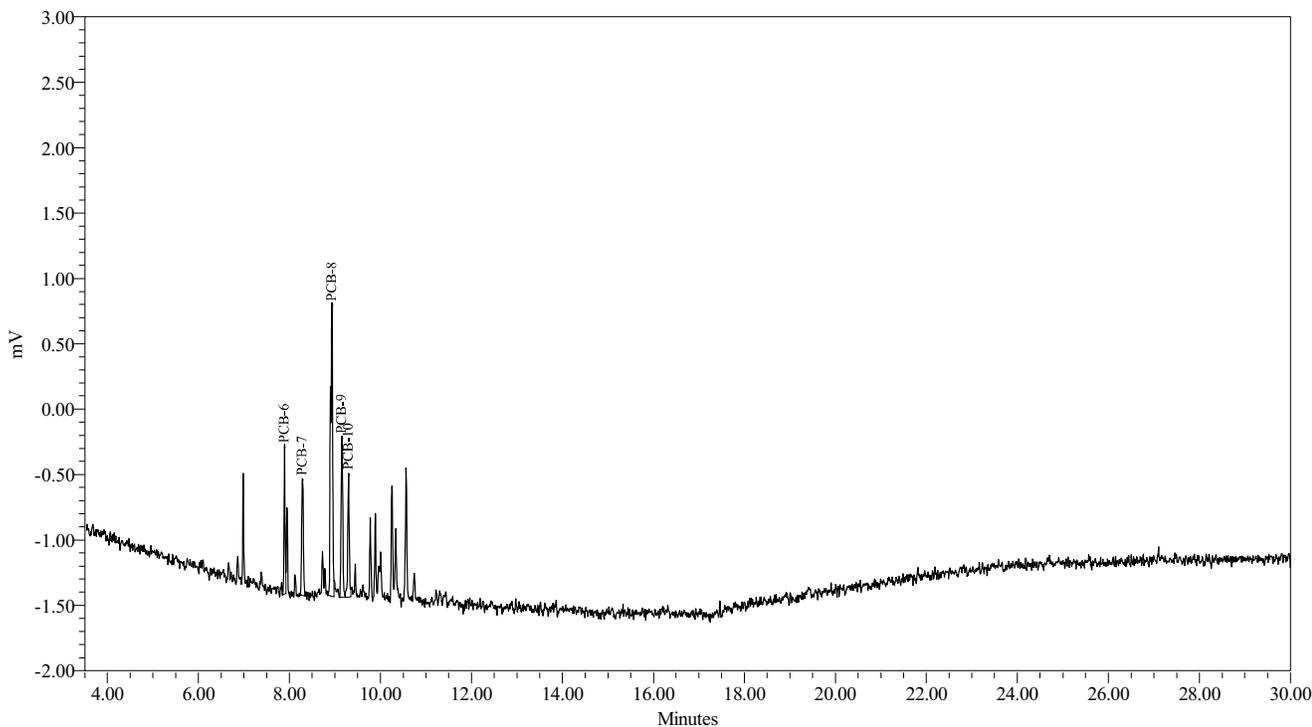
Sample Name:	040716D	Sample Amount:	1
Sample ID:	A1016 50 PPB	Dilution:	1
Date Acquired:	4/7/2009 2:10:19 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:26:32 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:10:29 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-6

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.893	bV	2015
2 PCB-7	8.285	bb	2166
3 PCB-8	8.936	bV	7330
4 PCB-9	9.153	BV	2940
5 PCB-10	9.298	VV	2112

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	16563	50.000
2 A1232	14548	
3 A1232-8/9	4278	
4 A1242	16563	





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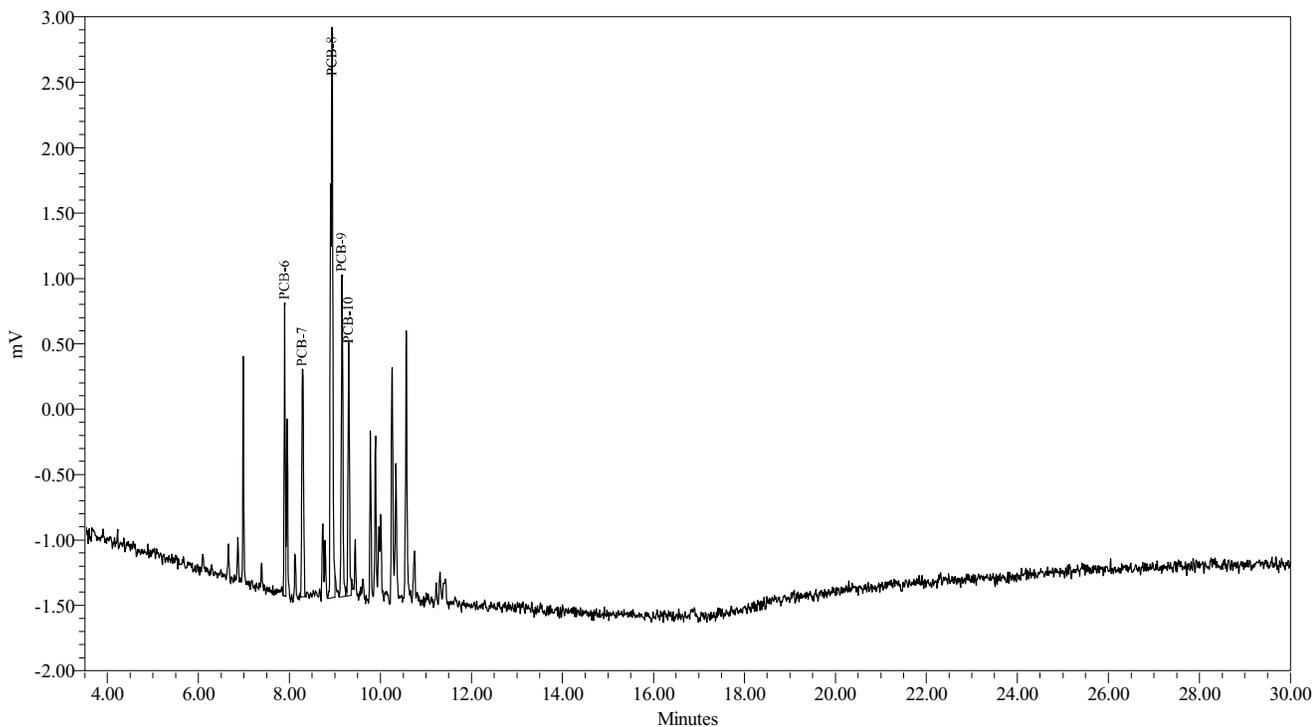
Sample Name:	040716E	Sample Amount:	1
Sample ID:	A1016 100 PPB	Dilution:	1
Date Acquired:	4/7/2009 2:42:54 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:28:25 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:10:39 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-7

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.896	bV	4034
2 PCB-7	8.288	bb	4318
3 PCB-8	8.939	bV	14769
4 PCB-9	9.156	VV	5647
5 PCB-10	9.301	VV	4175

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	32942	100.000
2 A1232	28908	
3 A1232-8/9	8492	
4 A1242	32942	





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System Name: Instrument\_23\_Ch01  
Sample Set Name: GC23F\_LLCC\_040709  
Sample Set Date: 4/7/2009 11:25:17 AM EDT  
Processing Method: GC23F\_CCLL\_040709

Date Calibrated: 4/8/2009 7:00:25 AM EDT  
Method Report: CCSum by RF 02  
User Name: Anthony Maiello (TonyM)

Calibration Component Summary Table  
Component Summary For RF

	Sample Name	A1221-5	A1221-4	A1221-2	A1221
1	040721A	37.2204	73.1416	82.0684	84.2404
2	040721B	38.6982	70.6483	72.0670	78.7305
3	040721C	37.0828	66.9235	72.1073	77.0423
4	040721D	39.2214	69.7077	74.9979	79.5559
5	040721E	41.1865	68.6078	75.1944	80.1876
Mean		38.682	69.806	75.287	79.951
Std. Dev.		1.678	2.323	4.079	2.672
% RSD		4.34	3.33	5.42	3.34



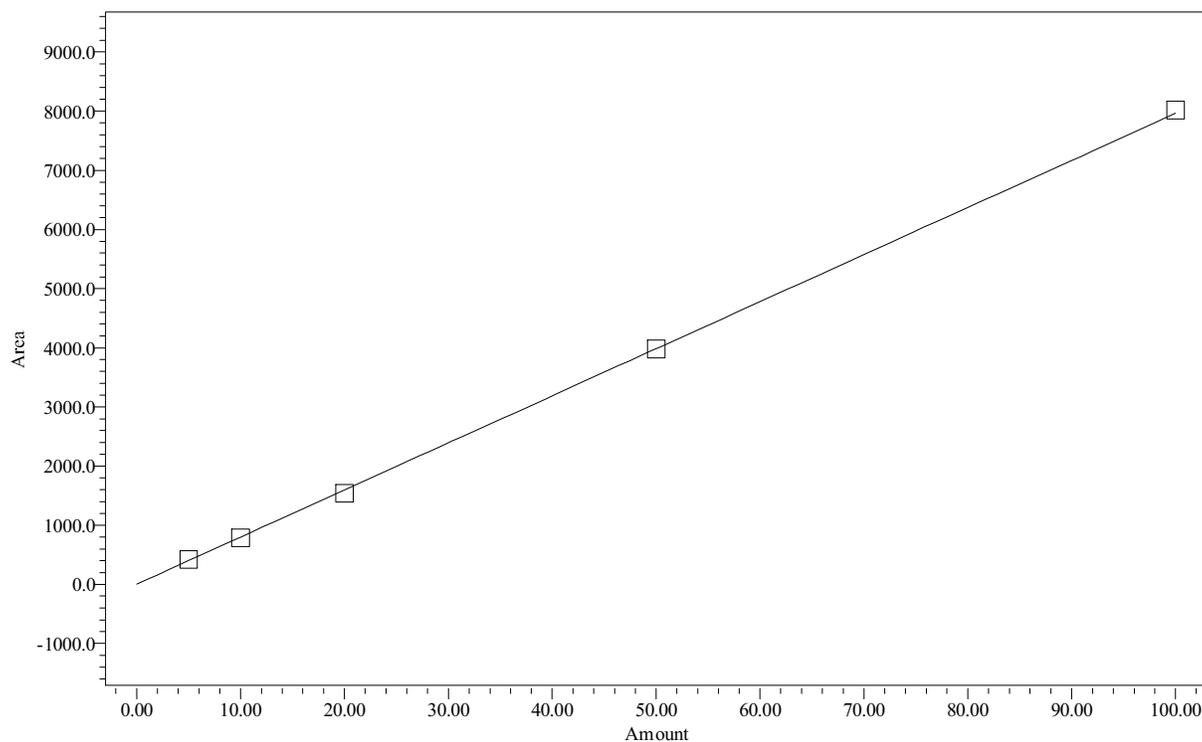
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Name:	A1221	Coefficient constant A:	4.976848
System Name:	Instrument_23_Ch01	Coefficient first Order B:	79.573089
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999820
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999639

Calibration Curve



Point Table  
Peak: A1221

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1221	5.00	421	5.2	4.615	No	No
2	A1221	10.00	787	9.8	-1.684	No	No
3	A1221	20.00	1541	19.3	-3.493	No	No
4	A1221	50.00	3978	49.9	-0.147	No	No
5	A1221	100.00	8019	100.7	0.710	No	No



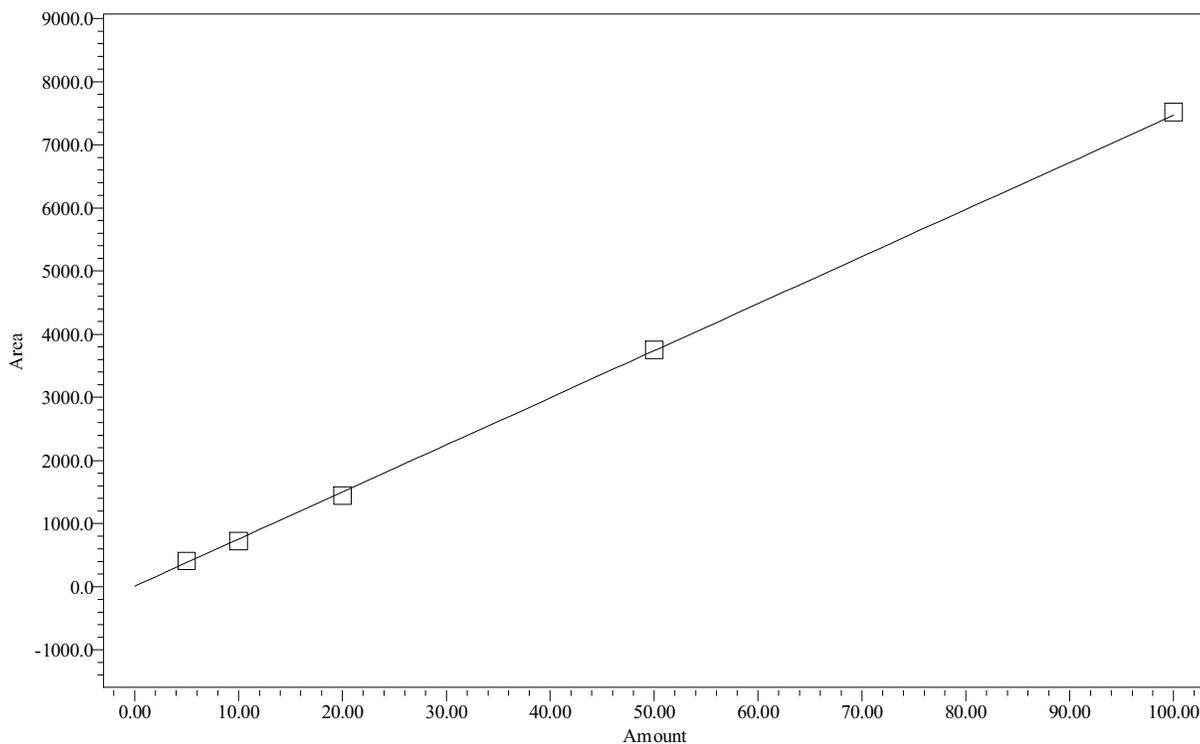
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Name:	A1221-2	Coefficient constant A:	9.448147
System Name:	Instrument_23_Ch01	Coefficient first Order B:	74.568917
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999639
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.999277

Calibration Curve



Point Table  
Peak: A1221-2

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1221-2	5.00	410	5.4	7.523	No	No
2	A1221-2	10.00	721	9.5	-4.622	No	No
3	A1221-2	20.00	1442	19.2	-3.935	No	No
4	A1221-2	50.00	3750	50.2	0.322	No	No
5	A1221-2	100.00	7519	100.7	0.712	No	No



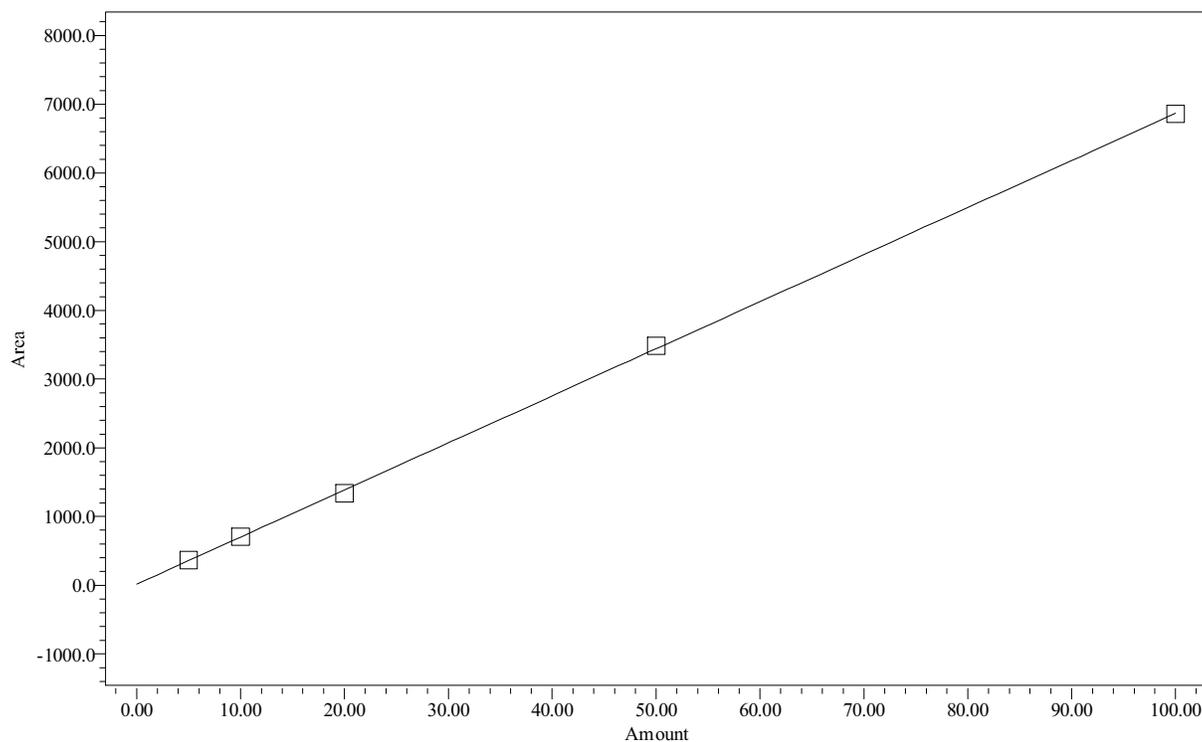
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Name:	A1221-4	Coefficient constant A:	17.355726
System Name:	Instrument_23_Ch01	Coefficient first Order B:	68.486751
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999852
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999704

Calibration Curve



Point Table  
Peak: A1221-4

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1221-4	5.00	366	5.1	1.728	No	No
2	A1221-4	10.00	706	10.1	0.622	No	No
3	A1221-4	20.00	1338	19.3	-3.550	No	No
4	A1221-4	50.00	3485	50.6	1.276	No	No
5	A1221-4	100.00	6861	99.9	-0.077	No	No



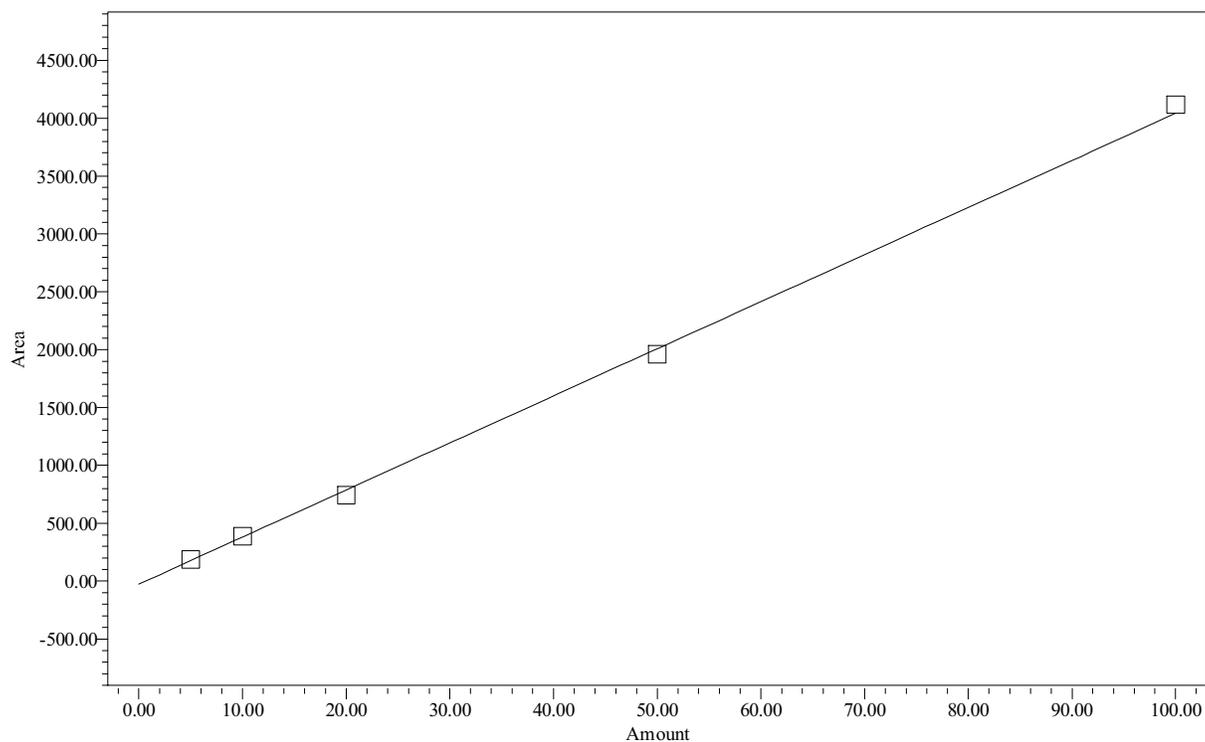
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Name:	A1221-5	Coefficient constant A:	-26.304425
System Name:	Instrument_23_Ch01	Coefficient first Order B:	40.680985
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999424
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.998849

Calibration Curve



Point Table  
Peak: A1221-5

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1221-5	5.00	186	5.2	4.425	No	No
2	A1221-5	10.00	387	10.2	1.592	No	No
3	A1221-5	20.00	742	18.9	-5.612	No	No
4	A1221-5	50.00	1961	48.9	-2.295	No	No
5	A1221-5	100.00	4119	101.9	1.889	No	No



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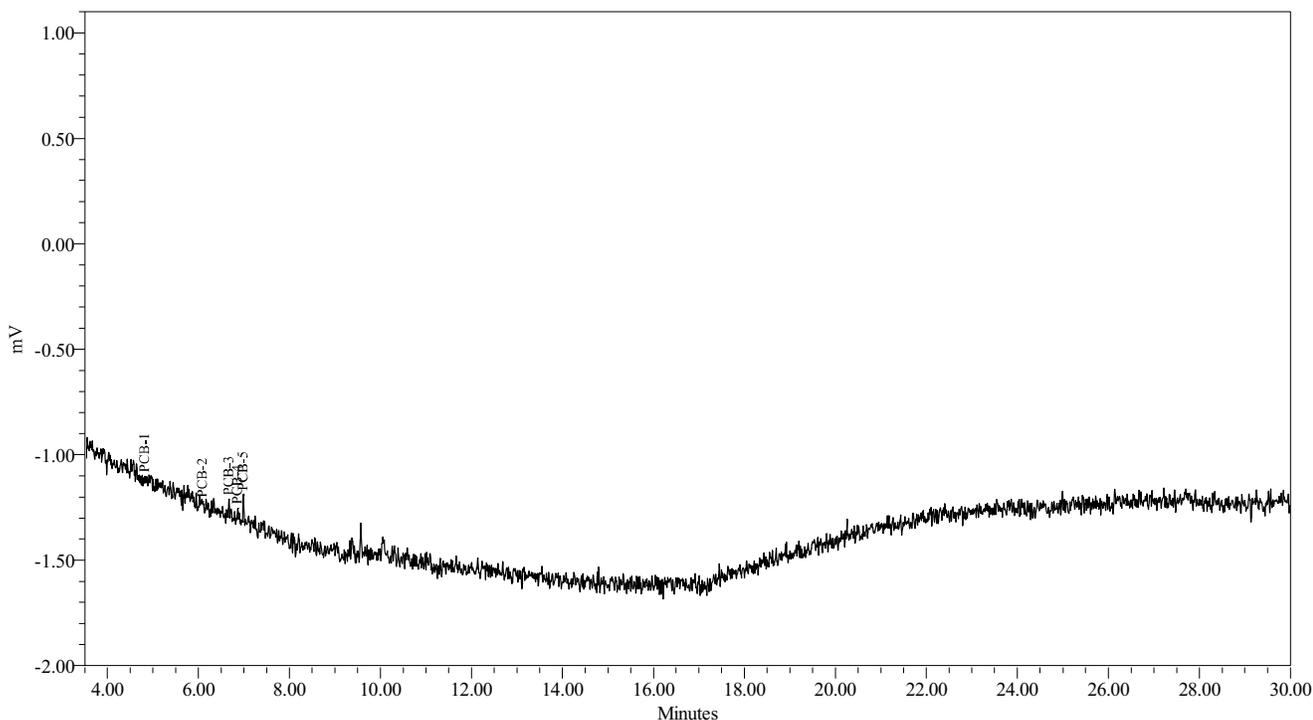
Sample Name:	040721A	Sample Amount:	1
Sample ID:	A1221 5 PPB	Dilution:	1
Date Acquired:	4/7/2009 3:15:30 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:35:18 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:13:07 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-8

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-1	4.823	bb	24
2 PCB-2	6.093	vb	11
3 PCB-3	6.673	vb	96
4 PCB-4	6.860	bb	55
5 PCB-5	6.988	bb	235

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1221	421	5.000
2 A1221-2	410	5.000
3 A1221-4	366	5.000
4 A1221-5	186	5.000
5 A1232	235	
6 A1232-8/9	235	





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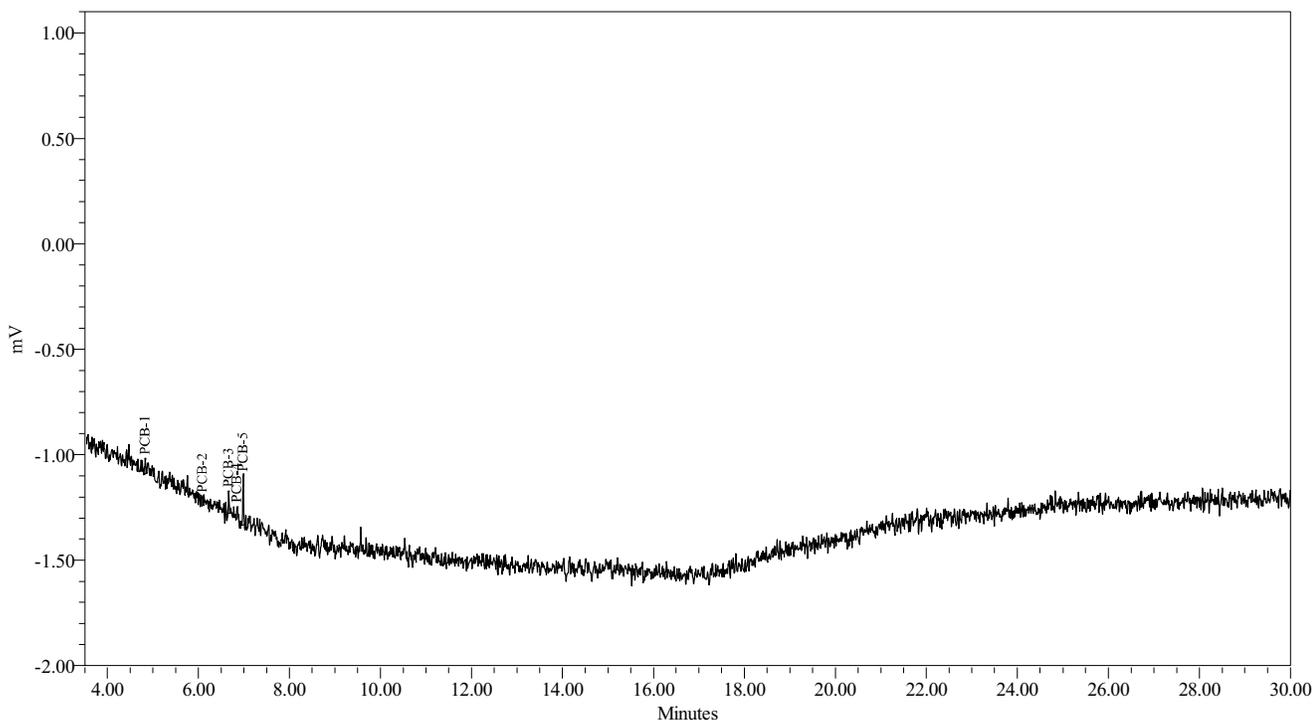
Sample Name: 040721B Sample Amount: 1  
Sample ID: A1221 10 PPB Dilution: 1  
Date Acquired: 4/7/2009 3:48:07 PM EDT Extract Volume: 1  
Project Name: GC23F\_Apr\_2009 Date Processed: 4/8/2009 6:34:46 AM EDT  
Sample Set Name: GC23F\_LLCC\_040709 User Name: Anthony Maiello (TonyM)  
Processing Method: GC23F\_CCLL\_040709 Current Date: 5/1/2009  
Run Time: 30.0 Minutes Current Time: 4:13:23 PM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23F-30-9

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-1	4.834	vb	87
2 PCB-2	6.091	vb	67
3 PCB-3	6.665	bb	152
4 PCB-4	6.850	bb	81
5 PCB-5	6.985	bb	400

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1221	787	10.000
2 A1221-2	721	10.000
3 A1221-4	706	10.000
4 A1221-5	387	10.000
5 A1232	400	
6 A1232-8/9	400	





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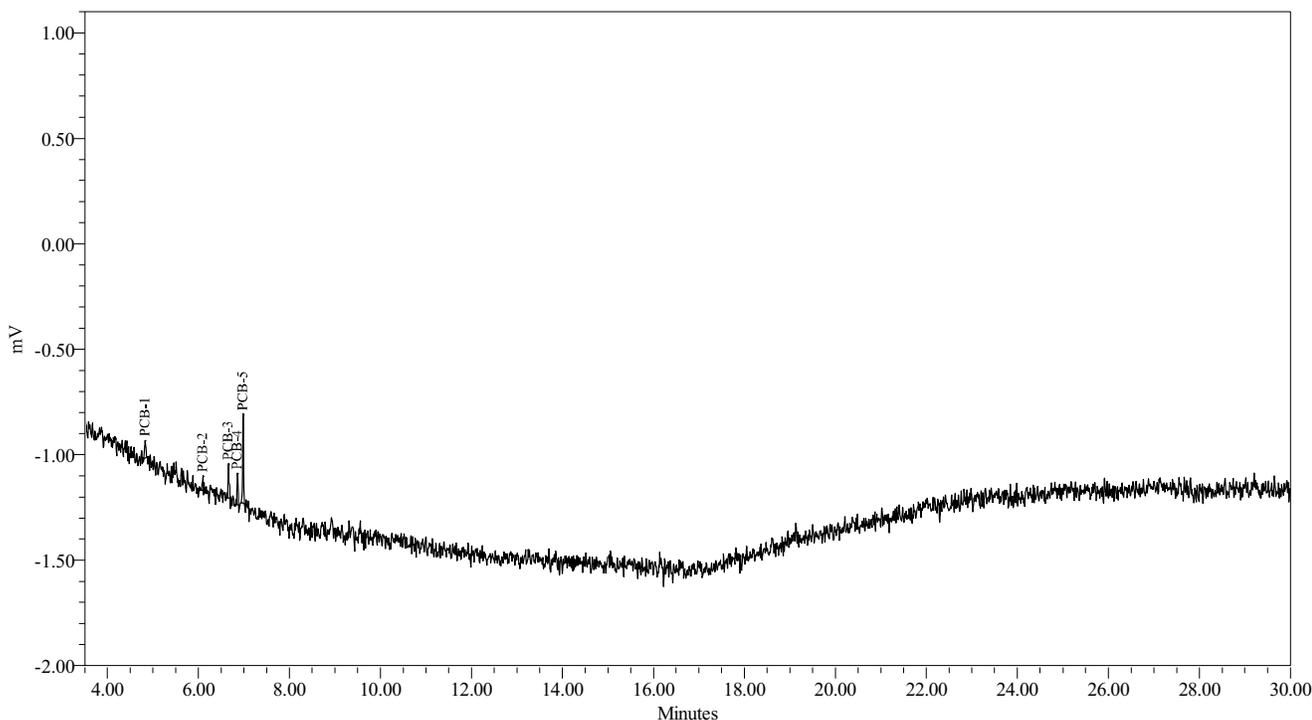
Sample Name:	040721C	Sample Amount:	1
Sample ID:	A1221 20 PPB	Dilution:	1
Date Acquired:	4/7/2009 4:20:41 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:31:40 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:13:30 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-10

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-1	4.830	bb	153
2 PCB-2	6.095	bb	99
3 PCB-3	6.658	bb	288
4 PCB-4	6.858	bb	202
5 PCB-5	6.982	bb	799

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1221	1541	20.000
2 A1221-2	1442	20.000
3 A1221-4	1338	20.000
4 A1221-5	742	20.000
5 A1232	799	
6 A1232-8/9	799	





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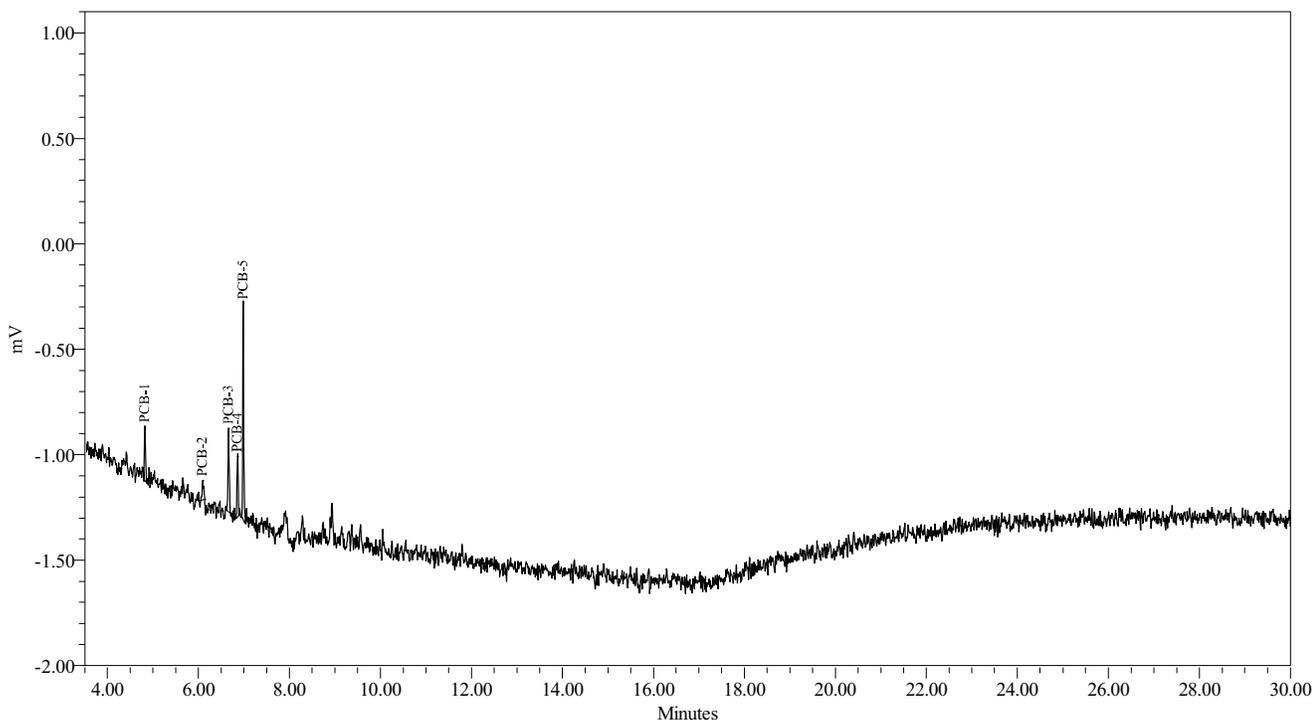
Sample Name:	040721D	Sample Amount:	1
Sample ID:	A1221 50 PPB	Dilution:	1
Date Acquired:	4/7/2009 4:53:16 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:32:03 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:13:38 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-11

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-1	4.825	bb	432
2 PCB-2	6.090	bb	228
3 PCB-3	6.662	bb	809
4 PCB-4	6.859	bb	492
5 PCB-5	6.982	bb	2017

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1221	3978	50.000
2 A1221-2	3750	50.000
3 A1221-4	3485	50.000
4 A1221-5	1961	50.000
5 A1232	2017	
6 A1232-8/9	2017	





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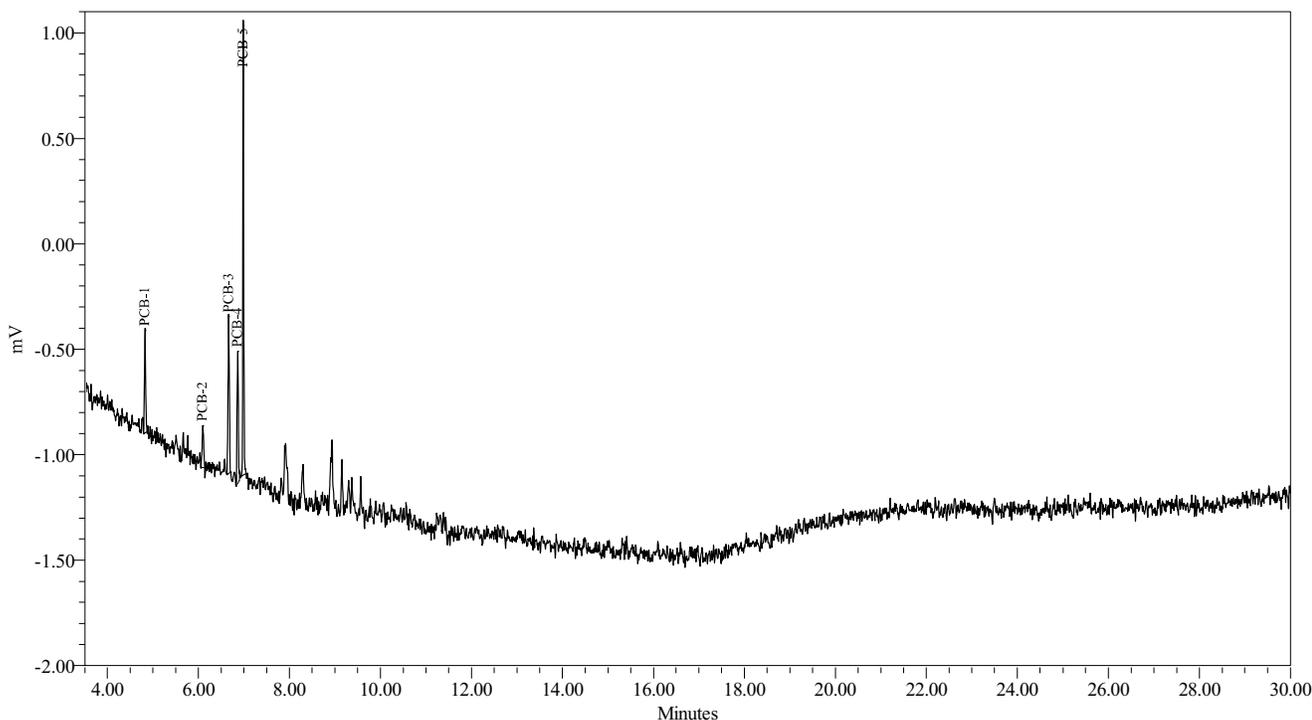
Sample Name:	040721E	Sample Amount:	1
Sample ID:	A1221 100 PPB	Dilution:	1
Date Acquired:	4/7/2009 5:25:51 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:33:35 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:13:46 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-12

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-1	4.828	bb	822
2 PCB-2	6.093	bb	499
3 PCB-3	6.664	bb	1640
4 PCB-4	6.860	bV	1158
5 PCB-5	6.984	bb	3900

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1221	8019	100.000
2 A1221-2	7519	100.000
3 A1221-4	6861	100.000
4 A1221-5	4119	100.000
5 A1232	3900	
6 A1232-8/9	3900	





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System Name: Instrument\_23\_Ch01  
Sample Set Name: GC23F\_LLCC\_040709  
Sample Set Date: 4/7/2009 11:25:17 AM EDT  
Processing Method: GC23F\_CLL\_040709

Date Calibrated: 4/8/2009 7:00:25 AM EDT  
Method Report: CCSum by RF 02  
User Name: Anthony Maiello (TonyM)

Calibration Component Summary Table  
Component Summary For RF

	Sample Name	A1232-8/9	A1232
1	040732A	78.4944	160.5985
2	040732B	70.9968	155.5911
3	040732C	76.8847	160.8585
4	040732D	73.9349	150.8044
5	040732E	68.6187	153.0443
Mean		73.786	156.179
Std. Dev.		4.070	4.486
% RSD		5.52	2.87



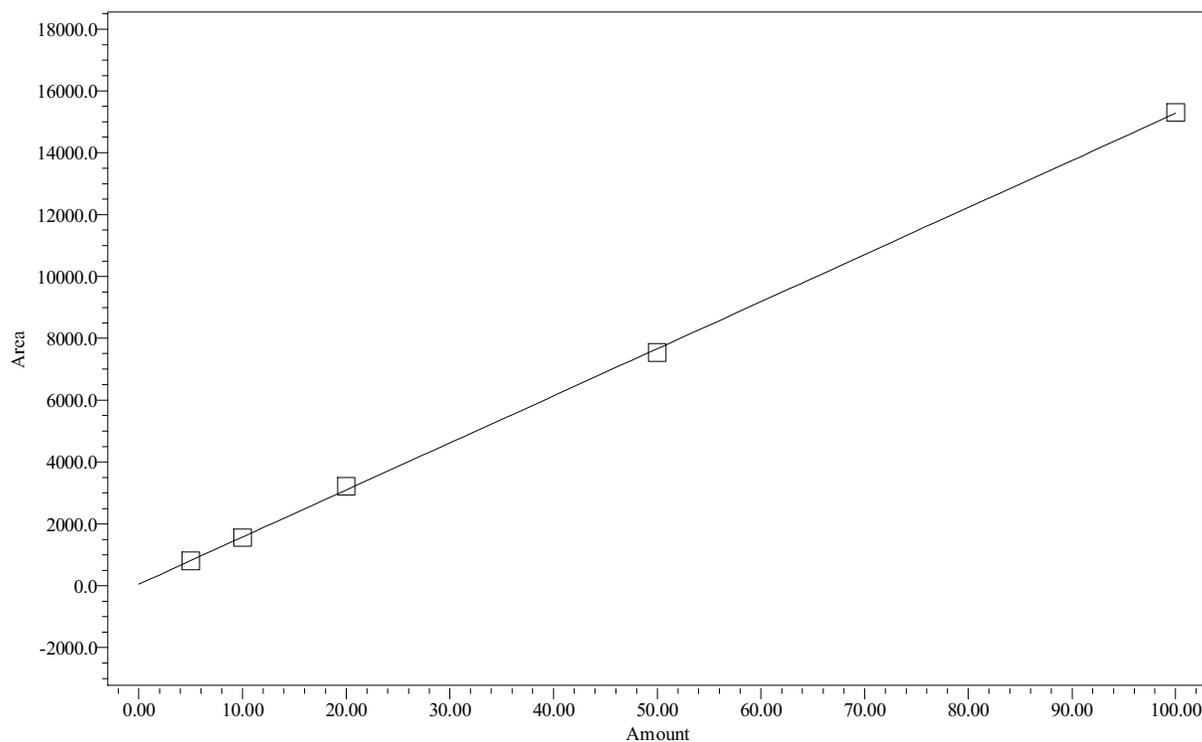
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Name:	A1232	Coefficient constant A:	52.147707
System Name:	Instrument_23_Ch01	Coefficient first Order B:	152.216147
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999802
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999604

Calibration Curve



Point Table  
Peak: A1232

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1232	5.00	803	4.9	-1.345	No	No
2	A1232	10.00	1556	9.9	-1.209	No	No
3	A1232	20.00	3217	20.8	3.965	No	No
4	A1232	50.00	7540	49.2	-1.613	No	No
5	A1232	100.00	15304	100.2	0.201	No	No



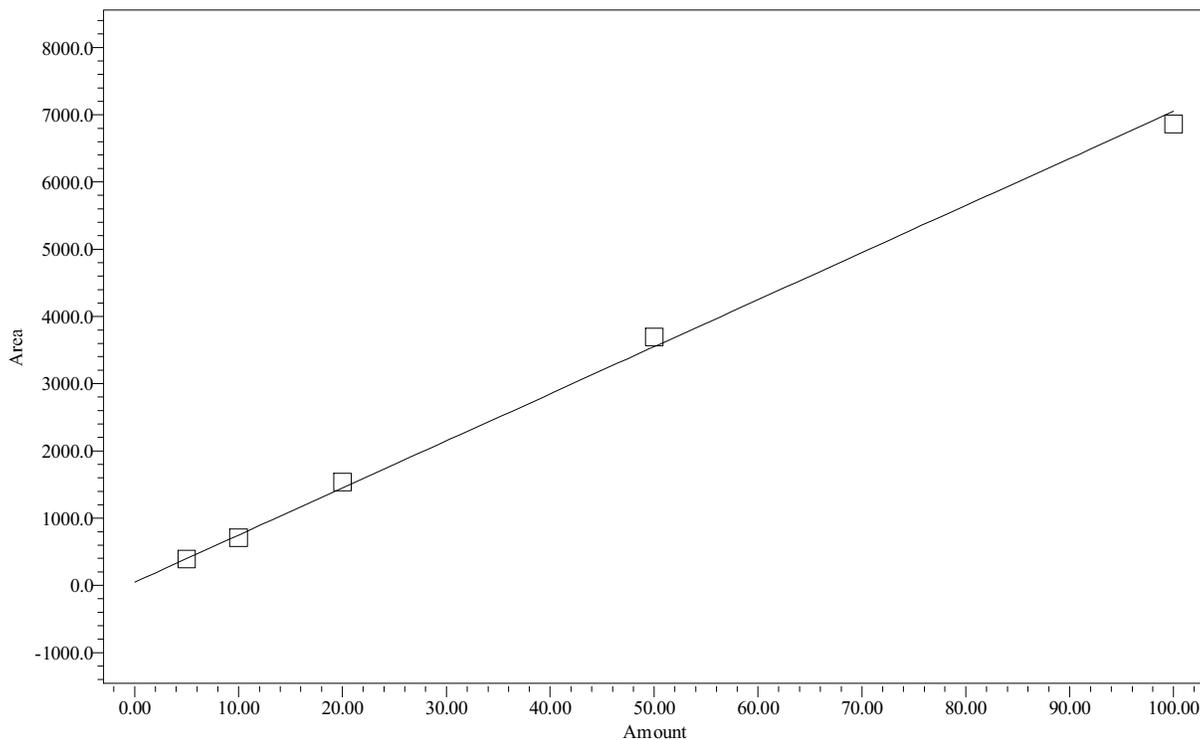
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Name:	A1232-8/9	Coefficient constant A:	49.849805
System Name:	Instrument_23_Ch01	Coefficient first Order B:	69.997299
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.998854
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.997710

Calibration Curve



Point Table  
Peak: A1232-8/9

	Name	Amount ppB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1232-8/9	5.00	392	4.9	-2.104	No	No
2	A1232-8/9	10.00	710	9.4	-5.694	No	No
3	A1232-8/9	20.00	1538	21.3	6.279	No	No
4	A1232-8/9	50.00	3697	52.1	4.201	No	No
5	A1232-8/9	100.00	6862	97.3	-2.682	No	No



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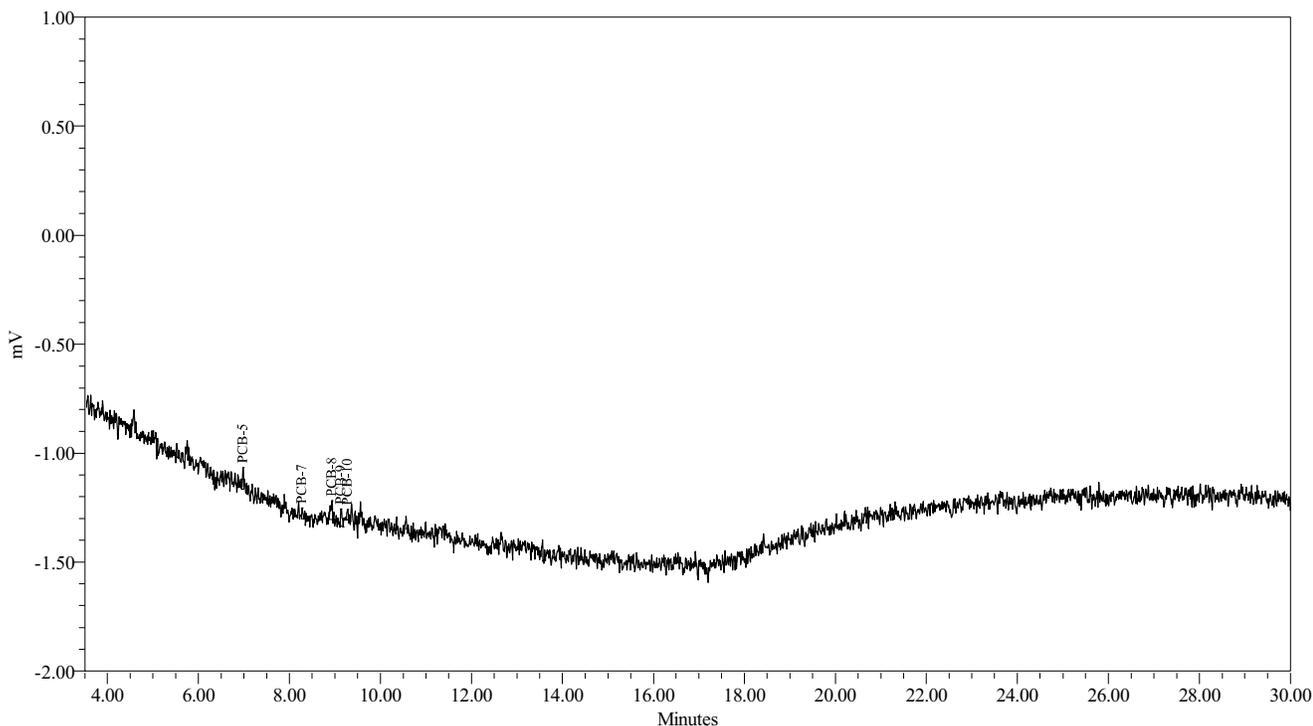
Sample Name:	040732A	Sample Amount:	1
Sample ID:	A1232 5 PPB	Dilution:	1
Date Acquired:	4/7/2009 5:58:27 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:41:14 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:16:24 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-13

Peak Results

	Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1	PCB-5	6.980	bv	191
2	PCB-7	8.280	vb	71
3	PCB-8	8.938	vb	239
4	PCB-9	9.136	bb	171
5	PCB-10	9.280	bb	131

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1	A1016	612	
2	A1221	191	
3	A1221-2	191	
4	A1221-4	191	
5	A1232	803	5.000
6	A1232-8/9	392	5.000
7	A1242	612	





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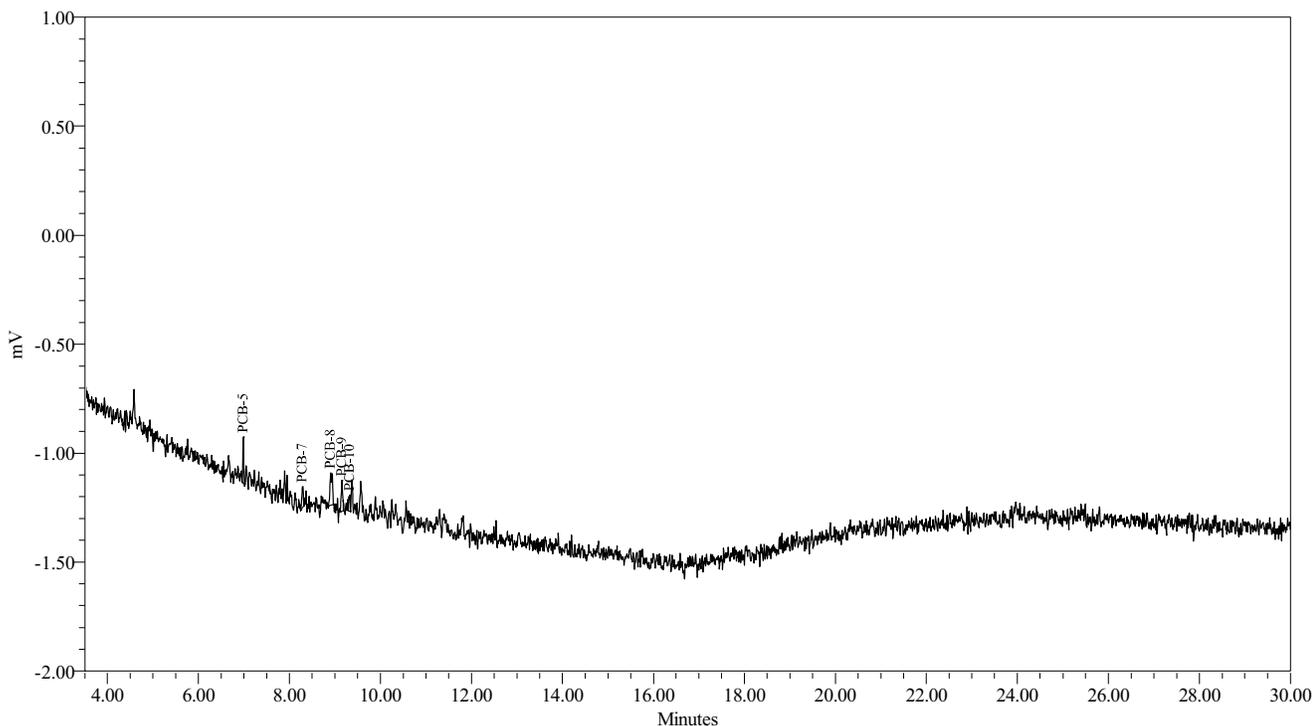
Sample Name:	040732B	Sample Amount:	1
Sample ID:	A1232 10 PPB	Dilution:	1
Date Acquired:	4/7/2009 6:31:04 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:39:01 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:16:32 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-14

Peak Results

	Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1	PCB-5	6.986	bb	368
2	PCB-7	8.287	bb	197
3	PCB-8	8.907	bb	572
4	PCB-9	9.154	bv	274
5	PCB-10	9.323	vb	145

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1	A1016	1188	
2	A1221	368	
3	A1221-2	368	
4	A1221-4	368	
5	A1232	1556	10.000
6	A1232-8/9	710	10.000
7	A1242	1188	





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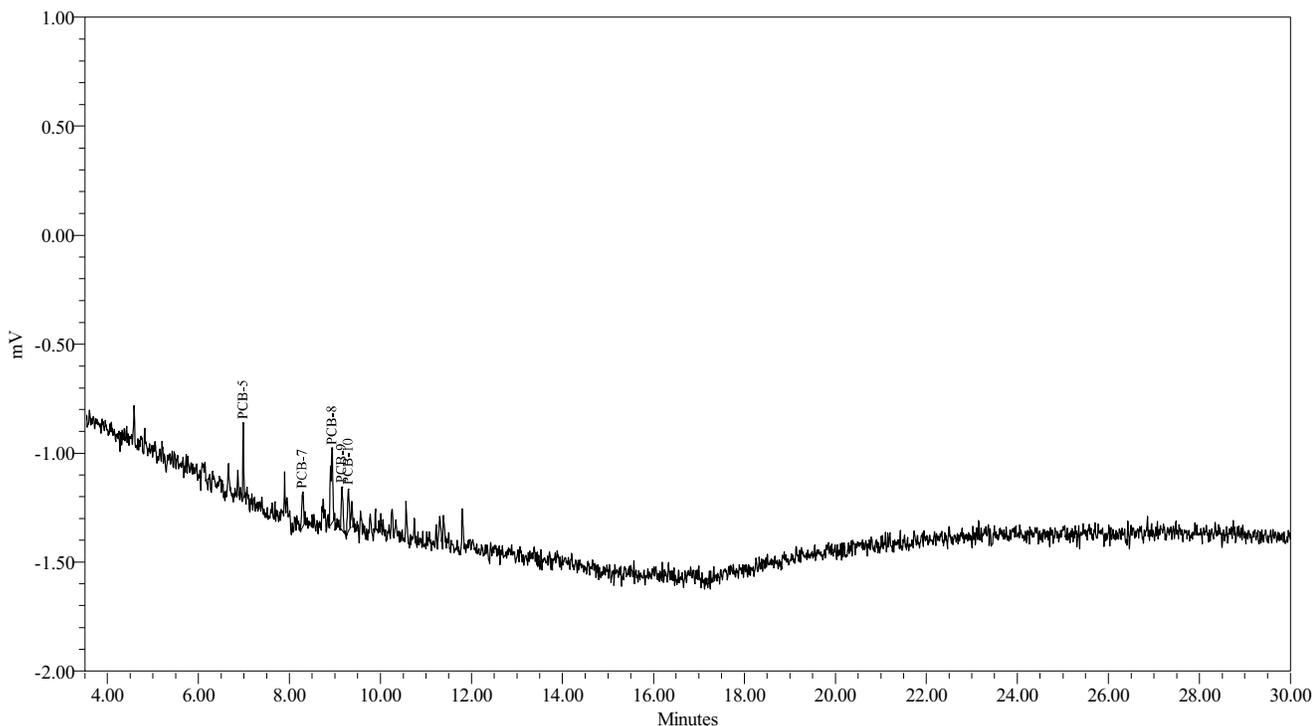
Sample Name:	040732C	Sample Amount:	1
Sample ID:	A1232 20 PPB	Dilution:	1
Date Acquired:	4/7/2009 7:03:40 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:39:22 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:16:40 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-15

Peak Results

	Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1	PCB-5	6.985	bb	623
2	PCB-7	8.288	bb	421
3	PCB-8	8.939	bb	1187
4	PCB-9	9.152	bb	493
5	PCB-10	9.294	bb	494

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1	A1016	2595	
2	A1221	623	
3	A1221-2	623	
4	A1221-4	623	
5	A1232	3217	20.000
6	A1232-8/9	1538	20.000
7	A1242	2595	





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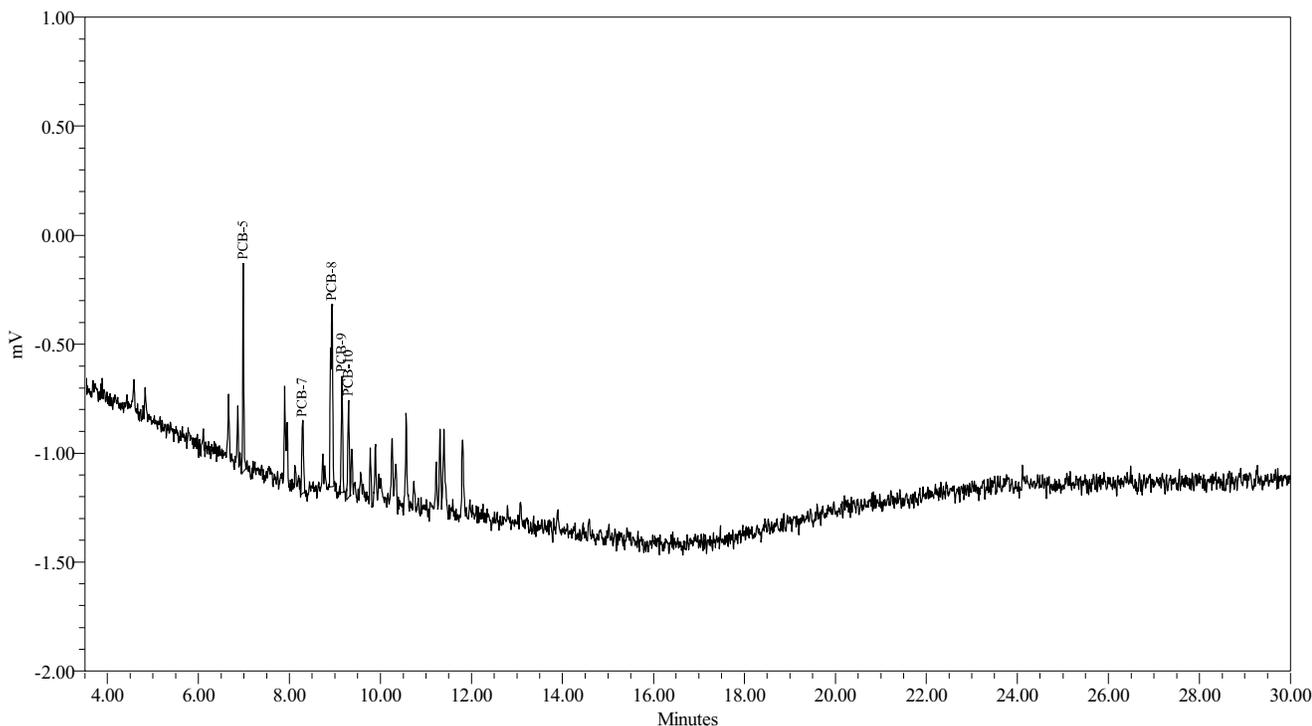
Sample Name: 040732D Sample Amount: 1  
Sample ID: A1232 50 PPB Dilution: 1  
Date Acquired: 4/7/2009 7:36:16 PM EDT Extract Volume: 1  
Project Name: GC23F\_Apr\_2009 Date Processed: 4/8/2009 6:39:46 AM EDT  
Sample Set Name: GC23F\_LLCC\_040709 User Name: Anthony Maiello (TonyM)  
Processing Method: GC23F\_CCLL\_040709 Current Date: 5/1/2009  
Run Time: 30.0 Minutes Current Time: 4:16:49 PM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23F-30-16

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-5	6.983	bb	1924
2 PCB-7	8.289	bb	817
3 PCB-8	8.937	bV	2766
4 PCB-9	9.155	bb	1078
5 PCB-10	9.298	Vb	956

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	5616	
2 A1221	1924	
3 A1221-2	1924	
4 A1221-4	1924	
5 A1232	7540	50.000
6 A1232-8/9	3697	50.000
7 A1242	5616	





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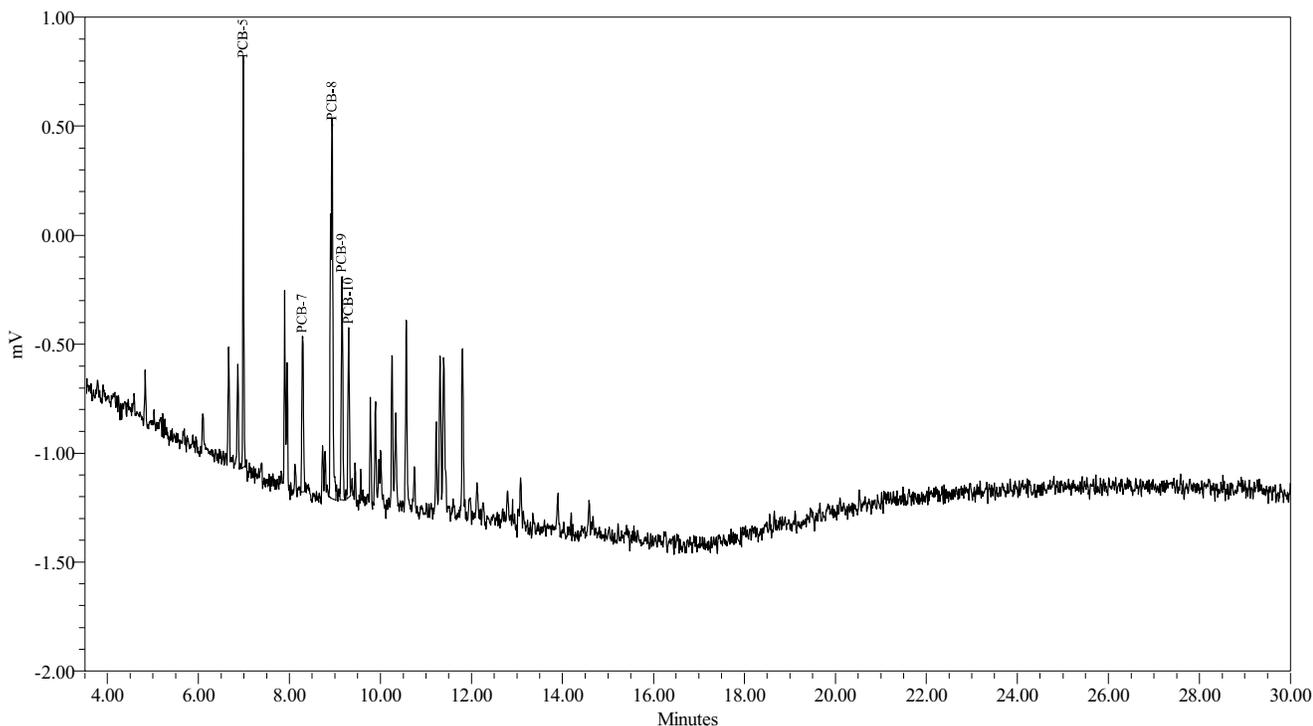
Sample Name:	040732E	Sample Amount:	1
Sample ID:	A1232 100 PPB	Dilution:	1
Date Acquired:	4/7/2009 8:08:53 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:40:15 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:16:57 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-17

Peak Results

	Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1	PCB-5	6.985	bb	3595
2	PCB-7	8.288	bb	1629
3	PCB-8	8.939	bV	6145
4	PCB-9	9.155	VB	2298
5	PCB-10	9.300	VV	1638

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1	A1016	11710	
2	A1221	3595	
3	A1221-2	3595	
4	A1221-4	3595	
5	A1232	15304	100.000
6	A1232-8/9	6862	100.000
7	A1242	11710	





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System Name:	Instrument_23_Ch01	Date Calibrated:	4/8/2009 7:00:25 AM EDT
Sample Set Name:	GC23F_LLCC_040709	Method Report:	CCSum by RF 02
Sample Set Date:	4/7/2009 11:25:17 AM EDT	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709		

Calibration Component Summary  
Table

Component Summary For RF

	Sample Name	A1242
1	040742A	266.9906
2	040742B	280.2236
3	040742C	284.1164
4	040742D	275.7392
5	040742E	273.6774
Mean		276.149
Std. Dev.		6.524
% RSD		2.36



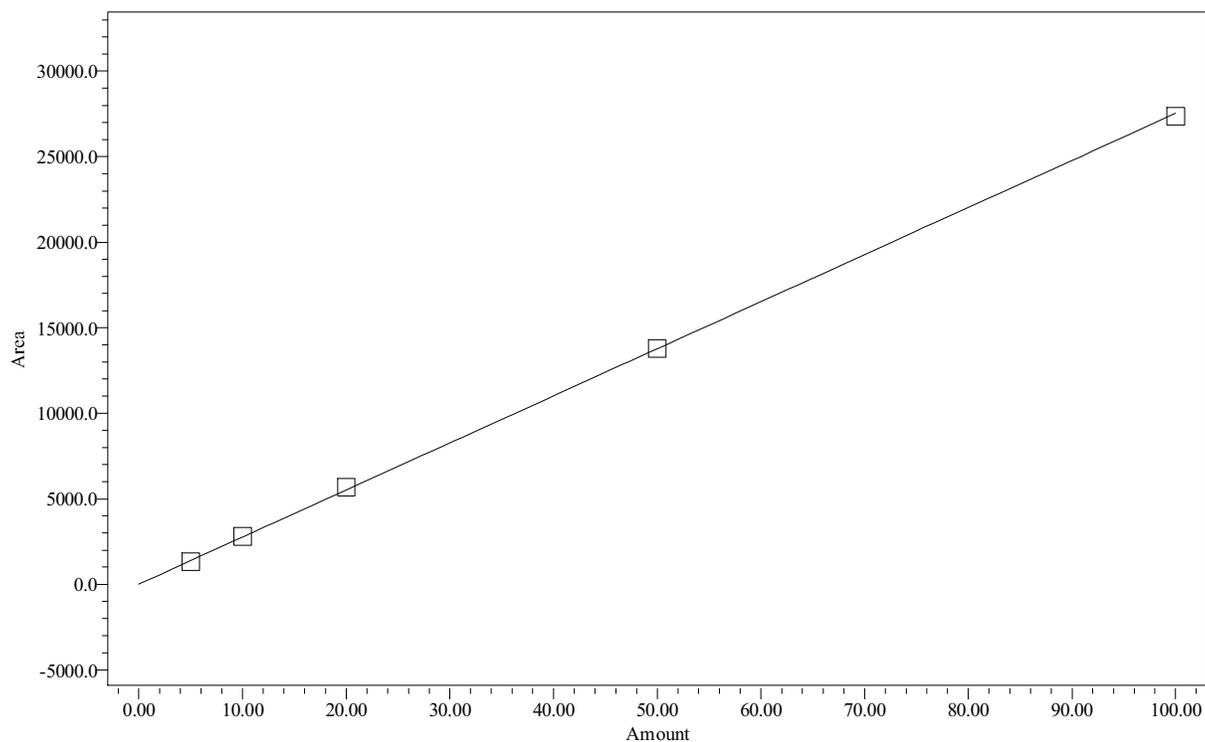
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Name:	A1242	Coefficient constant A:	12.519397
System Name:	Instrument_23_Ch01	Coefficient first Order B:	275.197960
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999869
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999738

Calibration Curve



Point Table  
Peak: A1242

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1242	5.00	1335	4.8	-3.892	No	No
2	A1242	10.00	2802	10.1	1.371	No	No
3	A1242	20.00	5682	20.6	3.013	No	No
4	A1242	50.00	13787	50.1	0.106	No	No
5	A1242	100.00	27368	99.4	-0.598	No	No



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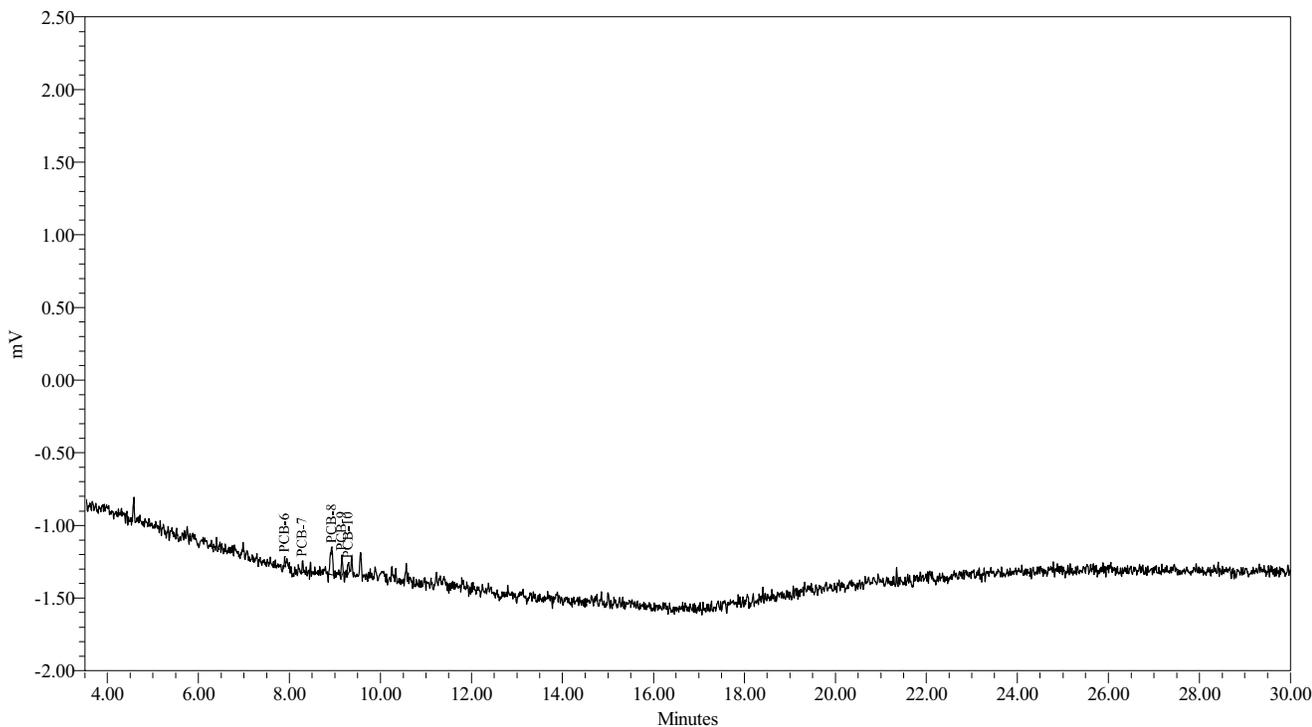
Sample Name: 040742A Sample Amount: 1  
Sample ID: A1242 5 PPB Dilution: 1  
Date Acquired: 4/7/2009 8:41:31 PM EDT Extract Volume: 1  
Project Name: GC23F\_Apr\_2009 Date Processed: 4/8/2009 6:47:17 AM EDT  
Sample Set Name: GC23F\_LLCC\_040709 User Name: Anthony Maiello (TonyM)  
Processing Method: GC23F\_CCLL\_040709 Current Date: 5/1/2009  
Run Time: 30.0 Minutes Current Time: 4:18:47 PM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23F-30-18

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.894	bv	86
2 PCB-7	8.286	bb	110
3 PCB-8	8.932	bb	719
4 PCB-9	9.154	bb	240
5 PCB-10	9.296	bb	180

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	1335	
2 A1232	1249	
3 A1232-8/9	291	
4 A1242	1335	5.000





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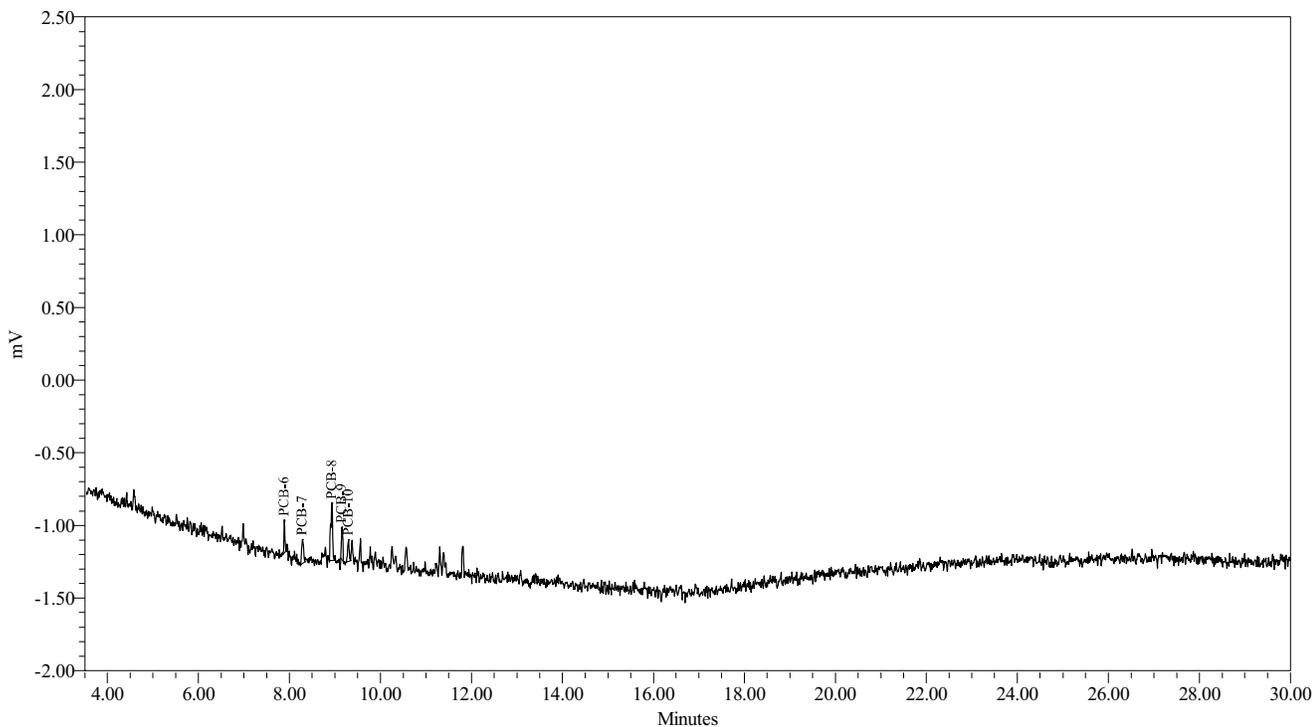
Sample Name:	040742B	Sample Amount:	1
Sample ID:	A1242 10 PPB	Dilution:	1
Date Acquired:	4/7/2009 9:14:05 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:47:35 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:19:03 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-19

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.889	bb	387
2 PCB-7	8.285	bb	446
3 PCB-8	8.935	bb	1191
4 PCB-9	9.153	bb	442
5 PCB-10	9.297	bb	337

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. (ng/mL)
1 A1016	2802	
2 A1232	2415	
3 A1232-8/9	783	
4 A1242	2802	10.000





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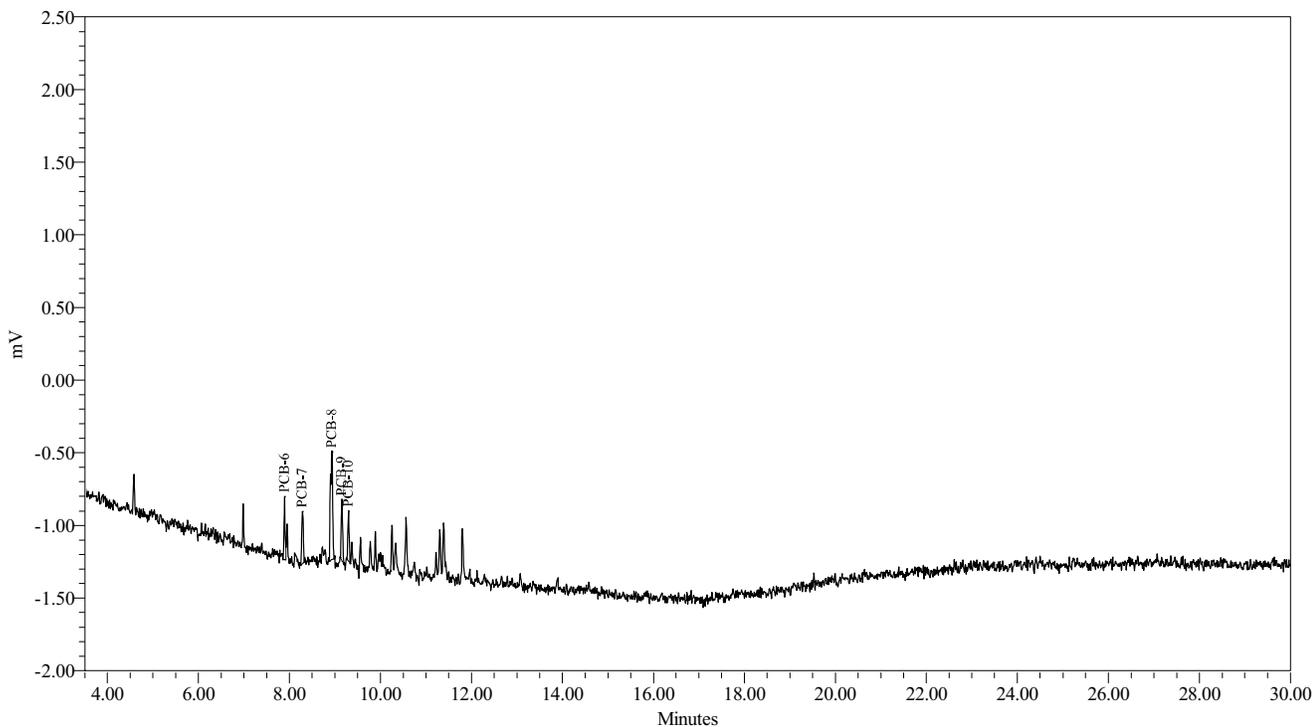
Sample Name:	040742C	Sample Amount:	1
Sample ID:	A1242 20 PPB	Dilution:	1
Date Acquired:	4/7/2009 9:46:40 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:45:32 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:19:11 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-20

Peak Results

	Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1	PCB-6	7.893	bV	816
2	PCB-7	8.284	bb	802
3	PCB-8	8.936	bb	2556
4	PCB-9	9.152	bb	860
5	PCB-10	9.297	bb	649

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1	A1016	5682	
2	A1232	4866	
3	A1232-8/9	1451	
4	A1242	5682	20.000





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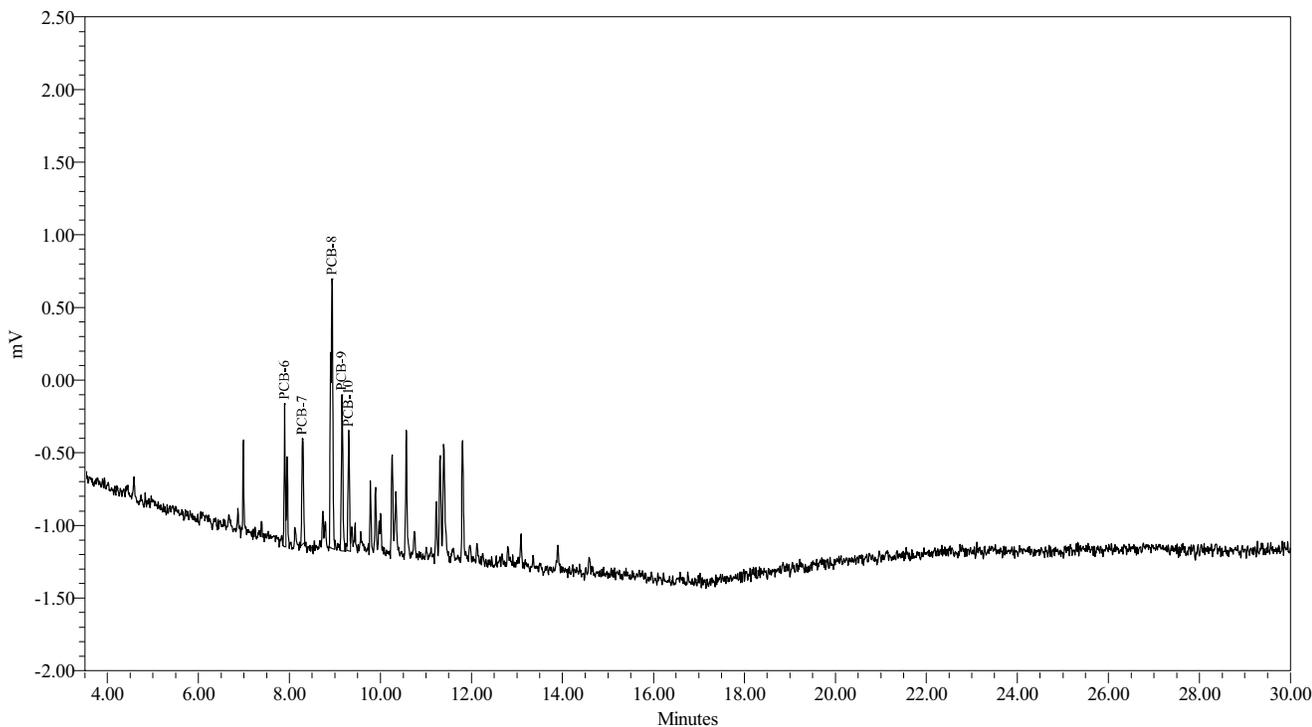
Sample Name:	040742D	Sample Amount:	1
Sample ID:	A1242 50 PPB	Dilution:	1
Date Acquired:	4/7/2009 10:19:15 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:45:57 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:19:21 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-21

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.896	bV	1767
2 PCB-7	8.288	bb	1724
3 PCB-8	8.940	bV	6113
4 PCB-9	9.156	VB	2381
5 PCB-10	9.303	VV	1802

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	13787	
2 A1232	12020	
3 A1232-8/9	3526	
4 A1242	13787	50.000





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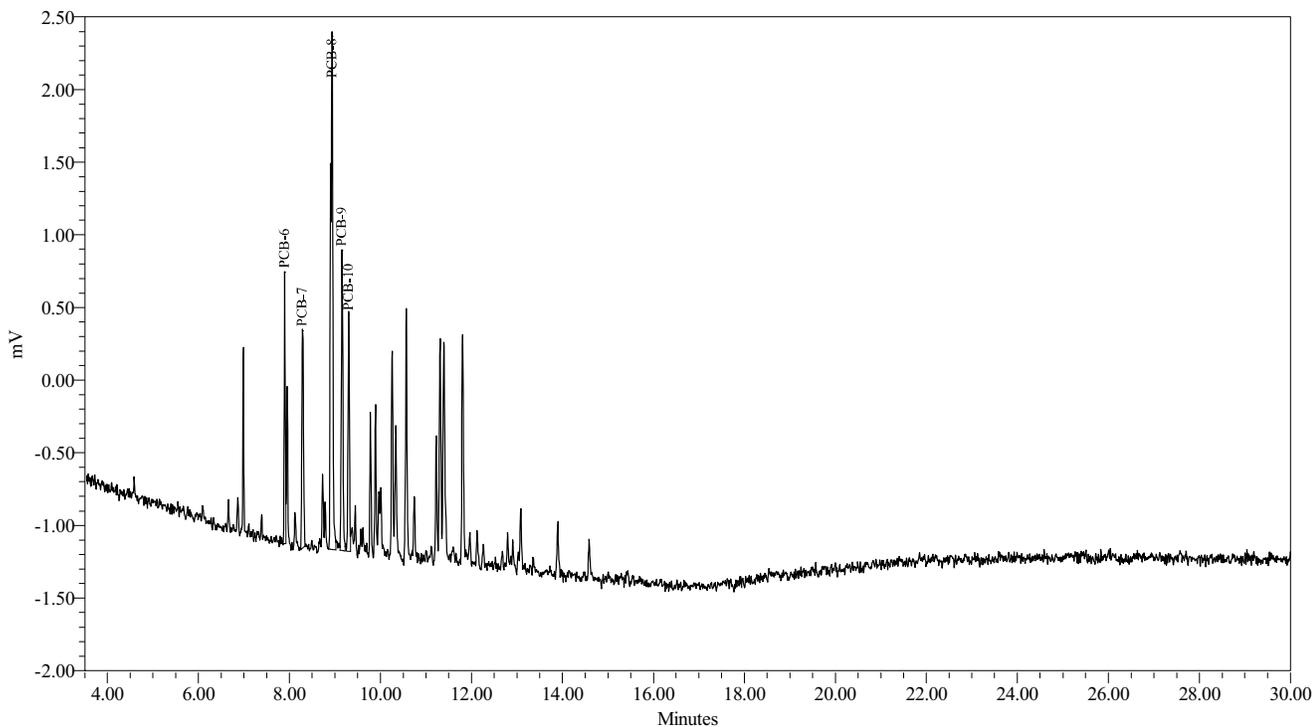
Sample Name:	040742E	Sample Amount:	1
Sample ID:	A1242 100 PPB	Dilution:	1
Date Acquired:	4/7/2009 10:51:50 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:46:20 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:19:29 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-22

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.896	bV	3339
2 PCB-7	8.288	bb	3580
3 PCB-8	8.940	bV	12236
4 PCB-9	9.156	VV	4780
5 PCB-10	9.302	VV	3433

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	27368	
2 A1232	24029	
3 A1232-8/9	7013	
4 A1242	27368	100.000





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System Name: Instrument\_23\_Ch01  
Sample Set Name: GC23F\_LLCC\_040709  
Sample Set Date: 4/7/2009 11:25:17 AM EDT  
Processing Method: GC23F\_CLL\_040709

Date Calibrated: 4/8/2009 7:00:25 AM EDT  
Method Report: CCSum by RF 02  
User Name: Anthony Maiello (TonyM)

Calibration Component Summary Table  
Component Summary For RF

	Sample Name	A1248-11/15	A1248	A1248-14/15
1	040748A	197.4297	296.1753	125.3142
2	040748B	179.2118	294.3145	133.5046
3	040748C	167.9133	265.9866	131.9073
4	040748D	188.8991	286.0380	136.9847
5	040748E	189.6348	285.8770	133.8776
Mean		184.618	285.678	132.318
Std. Dev.		11.357	11.966	4.325
% RSD		6.15	4.19	3.27



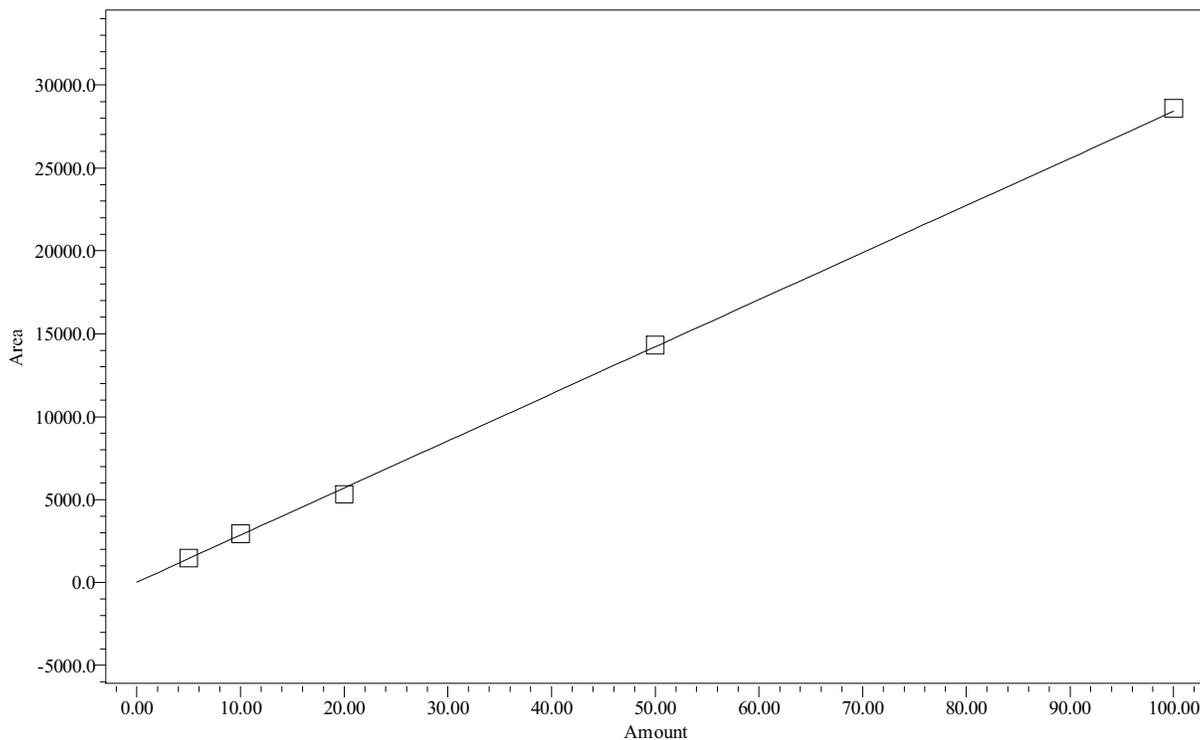
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Name:	A1248	Coefficient constant A:	23.965578
System Name:	Instrument_23_Ch01	Coefficient first Order B:	283.856900
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999549
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.999099

Calibration Curve



Point Table  
Peak: A1248

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1248	5.00	1481	5.1	2.651	No	No
2	A1248	10.00	2943	10.3	2.840	No	No
3	A1248	20.00	5320	18.7	-6.718	No	No
4	A1248	50.00	14302	50.3	0.600	No	No
5	A1248	100.00	28588	100.6	0.627	No	No



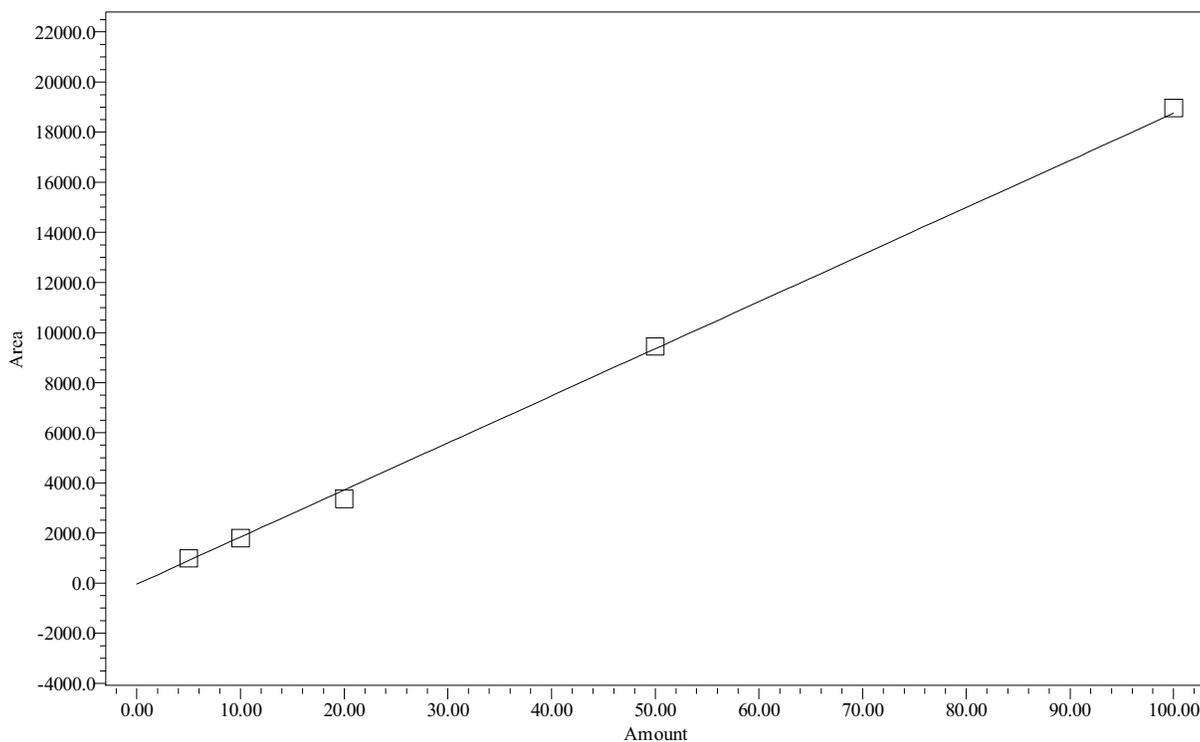
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Name:	A1248-11/15	Coefficient constant A:	-43.232693
System Name:	Instrument_23_Ch01	Coefficient first Order B:	187.903408
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.998951
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.997904

Calibration Curve



Point Table  
Peak: A1248-11/15

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1248-11/15	5.00	987	5.5	9.671	No	No
2	A1248-11/15	10.00	1792	9.8	-2.325	No	No
3	A1248-11/15	20.00	3358	18.1	-9.488	No	No
4	A1248-11/15	50.00	9445	50.5	0.990	No	No
5	A1248-11/15	100.00	18963	101.2	1.152	No	No



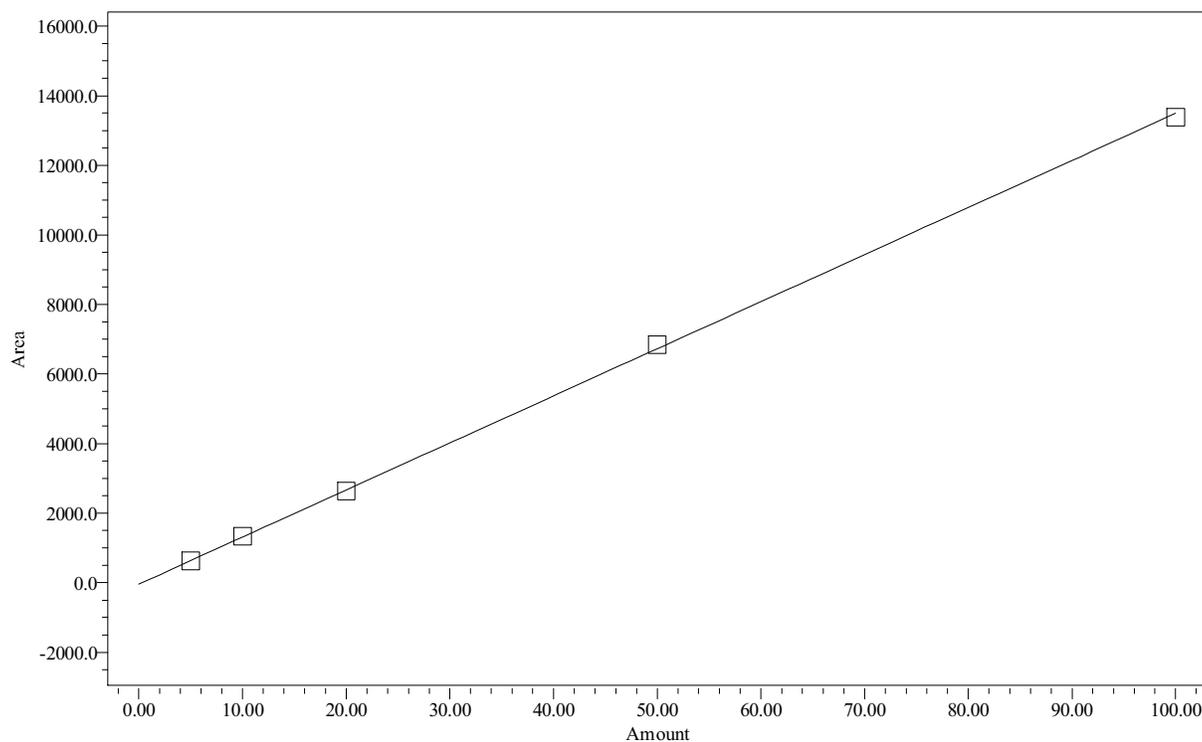
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Name:	A1248-14/15	Coefficient constant A:	-39.512654
System Name:	Instrument_23_Ch01	Coefficient first Order B:	135.320642
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999881
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999762

Calibration Curve



Point Table  
Peak: A1248-14/15

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1248-14/15	5.00	627	4.9	-1.555	No	No
2	A1248-14/15	10.00	1335	10.2	1.578	No	No
3	A1248-14/15	20.00	2638	19.8	-1.062	No	No
4	A1248-14/15	50.00	6849	50.9	1.814	No	No
5	A1248-14/15	100.00	13388	99.2	-0.774	No	No



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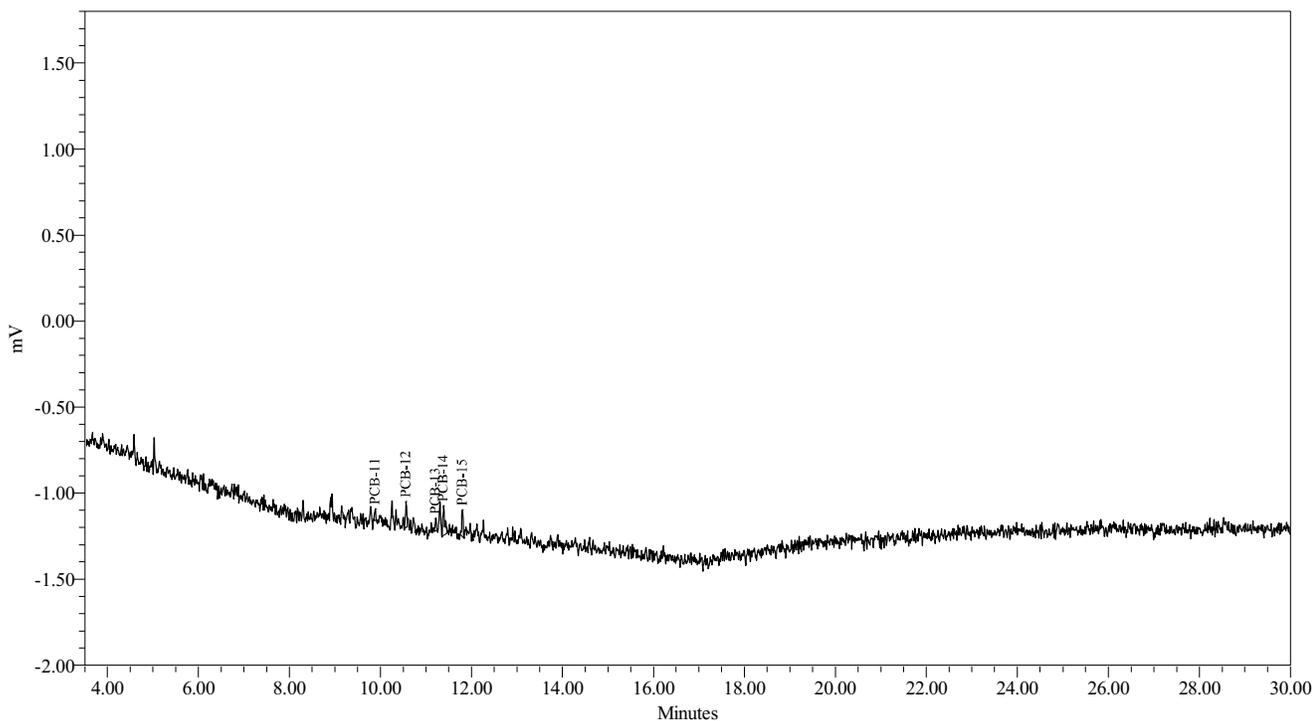
Sample Name:	040748A	Sample Amount:	1
Sample ID:	A1248 5 PPB	Dilution:	1
Date Acquired:	4/7/2009 11:24:26 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 7:00:24 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:20:53 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-23

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-11	9.886	bb	127
2 PCB-12	10.563	bv	347
3 PCB-13	11.212	bb	152
4 PCB-14	11.390	bv	488
5 PCB-15	11.803	bb	366

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1248	1481	5.000
2 A1248-11/15	987	5.000
3 A1248-14/15	627	5.000





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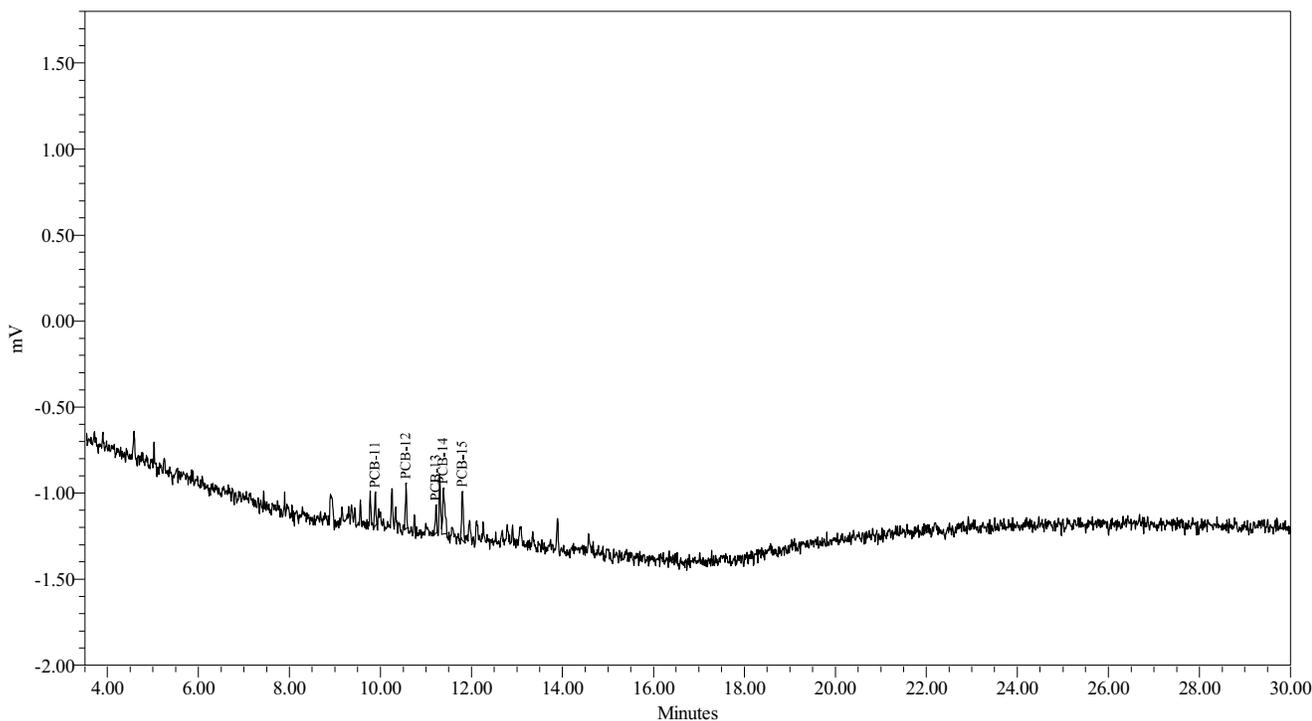
Sample Name:	040748B	Sample Amount:	1
Sample ID:	A1248 10 PPB	Dilution:	1
Date Acquired:	4/7/2009 11:57:01 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:59:59 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:21:10 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-24

Peak Results

	Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1	PCB-11	9.887	bb	411
2	PCB-12	10.563	bb	558
3	PCB-13	11.225	bb	366
4	PCB-14	11.386	Vb	868
5	PCB-15	11.805	bb	740

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1	A1248	2943	10.000
2	A1248-11/15	1792	10.000
3	A1248-14/15	1335	10.000





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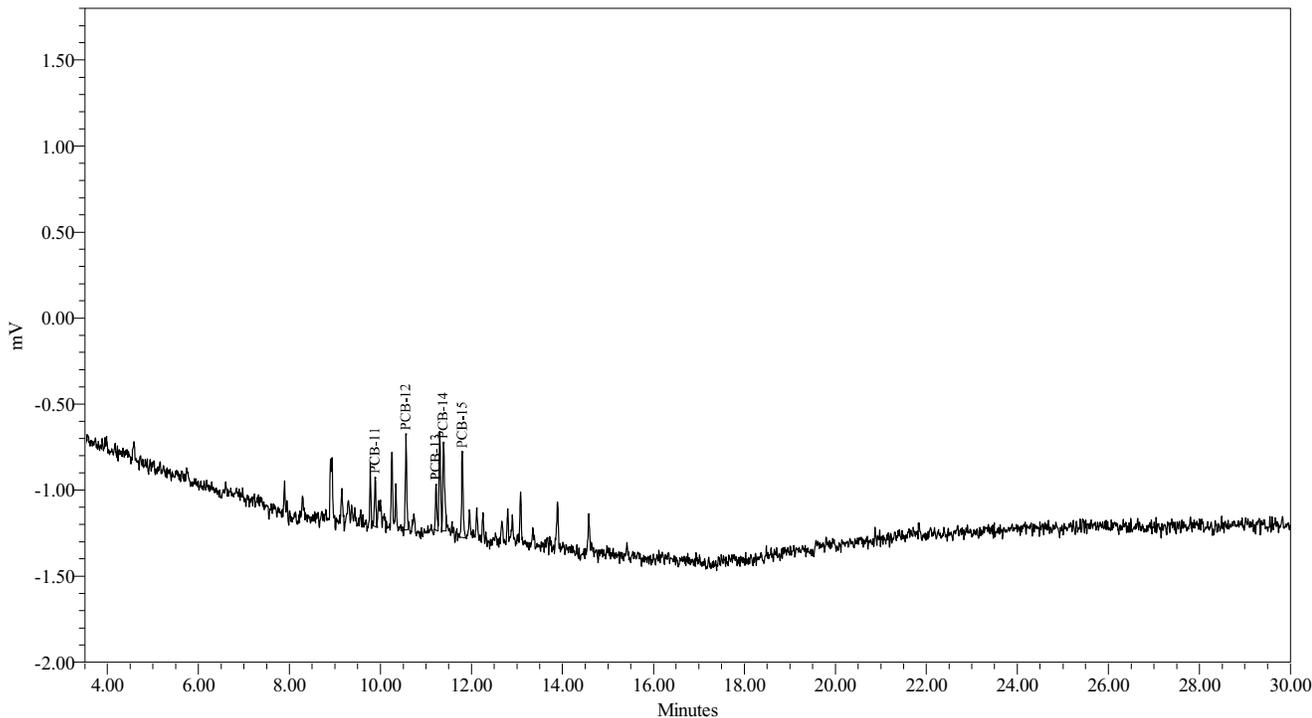
Sample Name:	040748C	Sample Amount:	1
Sample ID:	A1248 20 PPB	Dilution:	1
Date Acquired:	4/8/2009 12:29:37 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:58:30 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:21:20 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-25

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-11	9.884	bb	669
2 PCB-12	10.561	bV	1331
3 PCB-13	11.221	bV	637
4 PCB-14	11.388	BV	1389
5 PCB-15	11.802	bb	1292

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1248	5320	20.000
2 A1248-11/15	3358	20.000
3 A1248-14/15	2638	20.000





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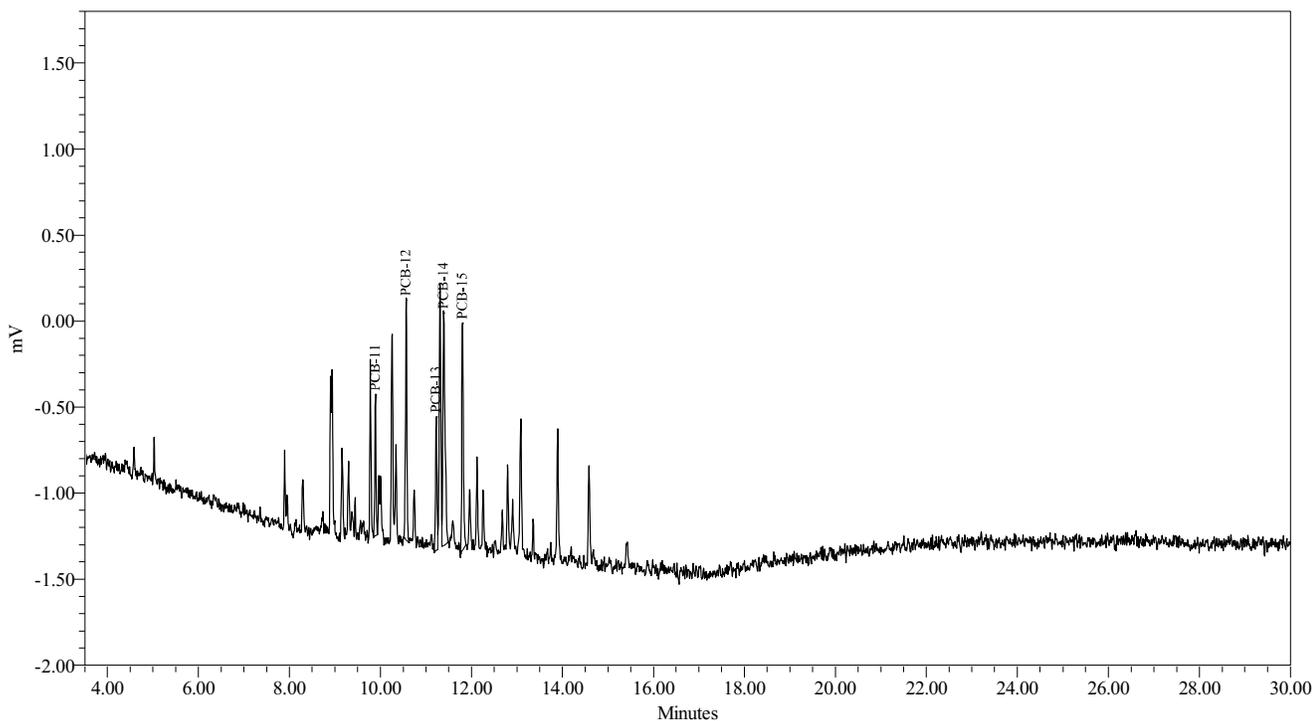
Sample Name:	040748D	Sample Amount:	1
Sample ID:	A1248 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 1:02:12 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:58:52 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:21:30 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-26

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-11	9.889	bV	1657
2 PCB-12	10.565	bb	3372
3 PCB-13	11.226	bV	1820
4 PCB-14	11.391	Vb	4253
5 PCB-15	11.806	bb	3200

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1248	14302	50.000
2 A1248-11/15	9445	50.000
3 A1248-14/15	6849	50.000





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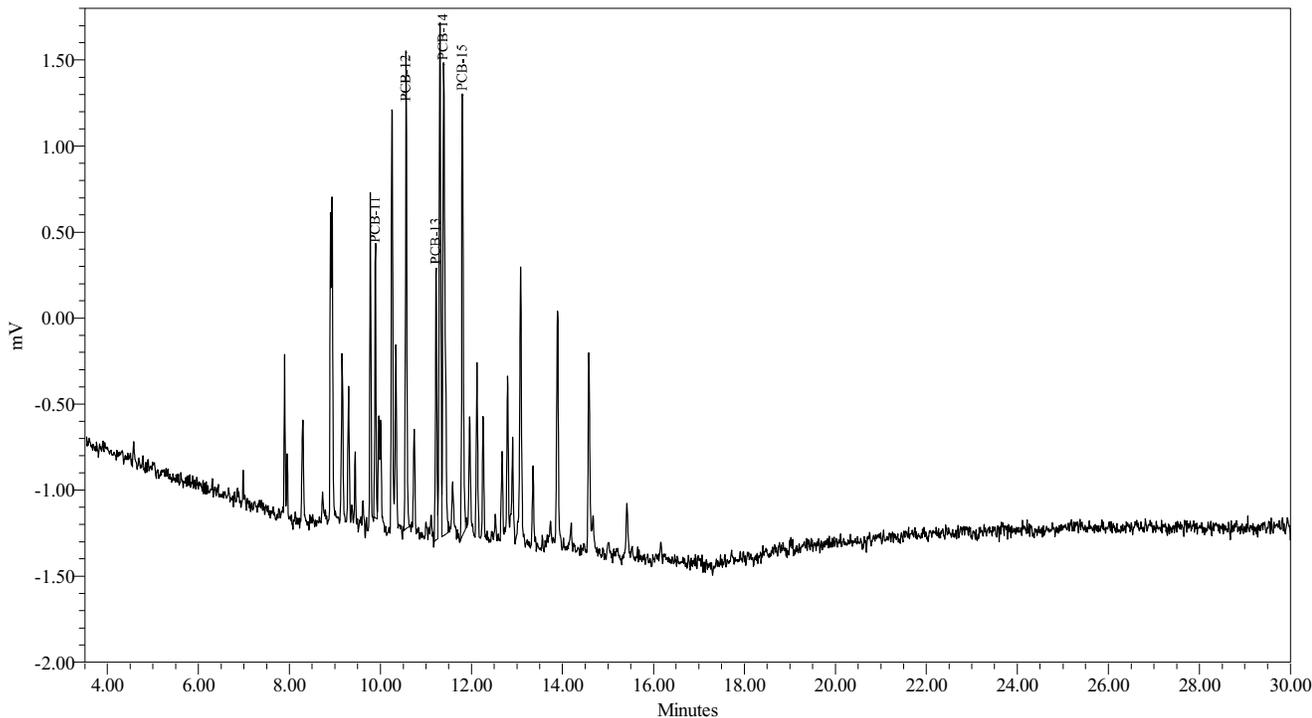
Sample Name:	040748E	Sample Amount:	1
Sample ID:	A1248 100 PPB	Dilution:	1
Date Acquired:	4/8/2009 1:34:49 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:59:13 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:21:38 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-27

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-11	9.889	bV	3176
2 PCB-12	10.564	bb	6598
3 PCB-13	11.223	bV	3615
4 PCB-14	11.390	VV	8751
5 PCB-15	11.804	bV	6449

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1248	28588	100.000
2 A1248-11/15	18963	100.000
3 A1248-14/15	13388	100.000





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System Name: Instrument\_23\_Ch01 Date Calibrated: 4/8/2009 7:00:25 AM EDT  
Sample Set Name: GC23F\_LLCC\_040709 Method Report: CCSum by RF 01  
Sample Set Date: 4/7/2009 11:25:17 AM EDT User Name: Anthony Maiello (TonyM)  
Processing Method: GC23F\_CCLL\_040709

Calibration Component Summary Table  
Component Summary For RF

	Sample Name	A1254-17/18	A1254-19/20	A1254-20	A1254
1	040754A	306.0199	266.7021	334.5595	458.4289
2	040754B	301.6971	271.2440	356.5078	471.8546
3	040754C	288.8450	281.7114	358.2297	482.1494
4	040754D	292.5600	272.8622	350.5633	482.4854
5	040754E	304.3739	283.4921	367.3957	499.4069
Mean		298.699	275.202	353.451	478.865
Std. Dev.		7.576	7.150	12.164	15.105
% RSD		2.54	2.60	3.44	3.15

Calibration Component Summary Table  
Component Summary For RF

	Sample Name	TCMX	DCBP
1	040754A	2088.3281	2262.3740
2	040754B	2044.3333	2302.7408
3	040754C	1993.7479	2209.4373
4	040754D	1909.7740	2221.1181
5	040754E	1907.0324	2185.4416
Mean		1988.643	2236.222
Std. Dev.		80.538	46.457
% RSD		4.05	2.08



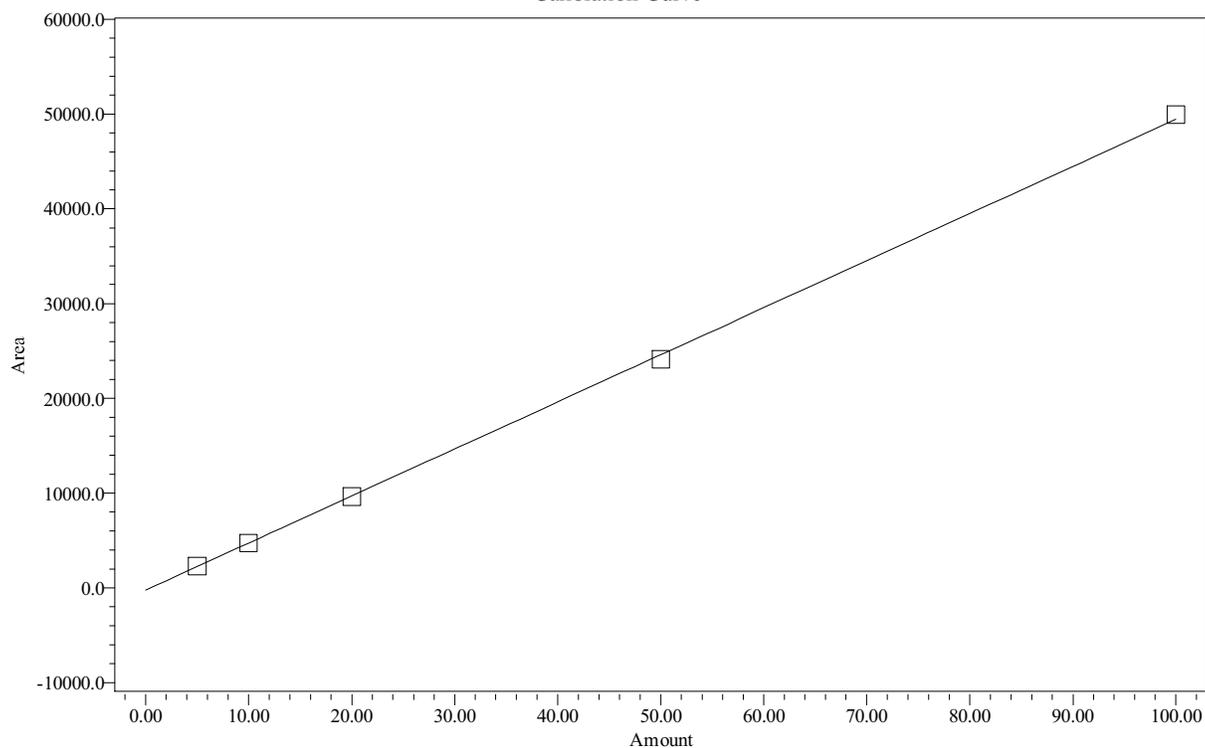
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Name:	A1254	Coefficient constant A:	-234.945641
System Name:	Instrument_23_Ch01	Coefficient first Order B:	496.720901
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999870
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999740

Calibration Curve



Point Table  
Peak: A1254

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1254	5.00	2292	5.1	1.751	No	No
2	A1254	10.00	4719	10.0	-0.276	No	No
3	A1254	20.00	9643	19.9	-0.569	No	No
4	A1254	50.00	24124	49.0	-1.920	No	No
5	A1254	100.00	49941	101.0	1.014	No	No



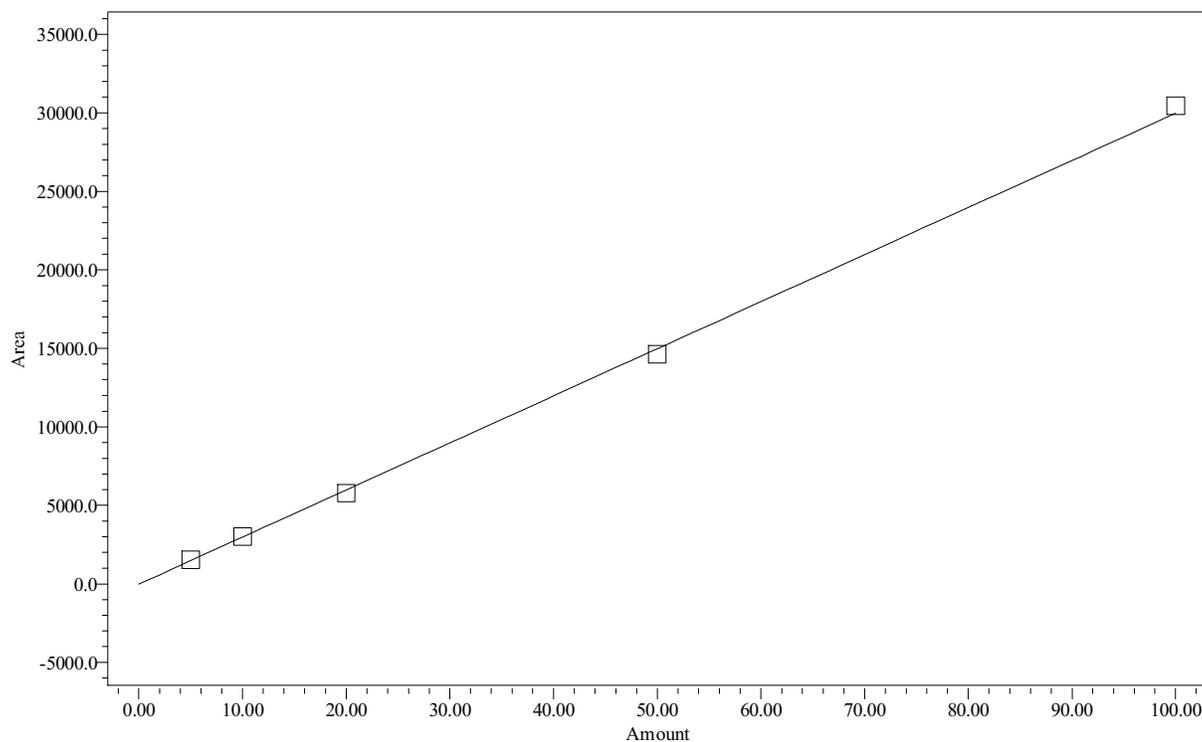
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Name:	A1254-17/18	Coefficient constant A:	-14.350164
System Name:	Instrument_23_Ch01	Coefficient first Order B:	299.789758
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999661
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999323

Calibration Curve



Point Table  
Peak: A1254-17/18

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1254-17/18	5.00	1530	5.2	3.036	No	No
2	A1254-17/18	10.00	3017	10.1	1.115	No	No
3	A1254-17/18	20.00	5777	19.3	-3.411	No	No
4	A1254-17/18	50.00	14628	48.8	-2.316	No	No
5	A1254-17/18	100.00	30437	101.6	1.577	No	No



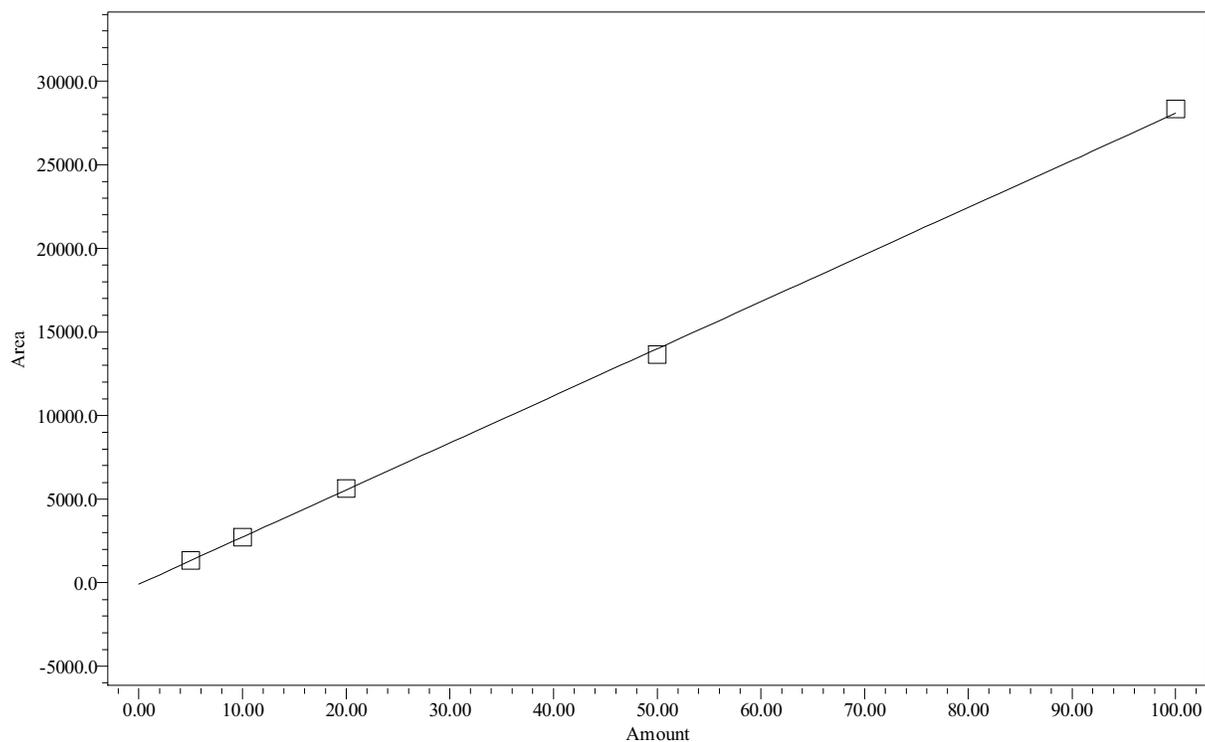
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Name:	A1254-19/20	Coefficient constant A:	-83.892360
System Name:	Instrument_23_Ch01	Coefficient first Order B:	281.578170
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999806
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999612

Calibration Curve



Point Table  
Peak: A1254-19/20

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1254-19/20	5.00	1334	5.0	0.676	No	No
2	A1254-19/20	10.00	2712	9.9	-0.691	No	No
3	A1254-19/20	20.00	5634	20.3	1.537	No	No
4	A1254-19/20	50.00	13643	48.8	-2.500	No	No
5	A1254-19/20	100.00	28349	101.0	0.978	No	No



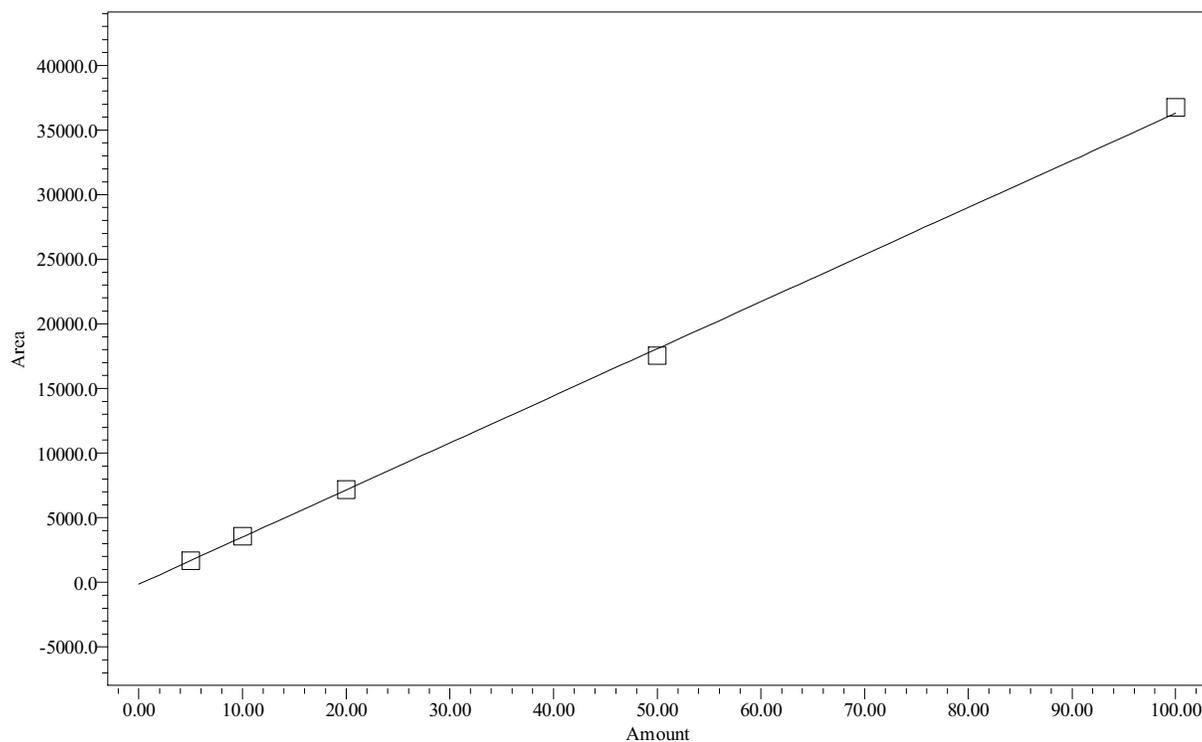
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Name:	A1254-20	Coefficient constant A:	-141.471567
System Name:	Instrument_23_Ch01	Coefficient first Order B:	364.203036
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999734
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999468

Calibration Curve



Point Table  
Peak: A1254-20

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1254-20	5.00	1673	5.0	-0.370	No	No
2	A1254-20	10.00	3565	10.2	1.772	No	No
3	A1254-20	20.00	7165	20.1	0.302	No	No
4	A1254-20	50.00	17528	48.5	-2.968	No	No
5	A1254-20	100.00	36740	101.3	1.265	No	No



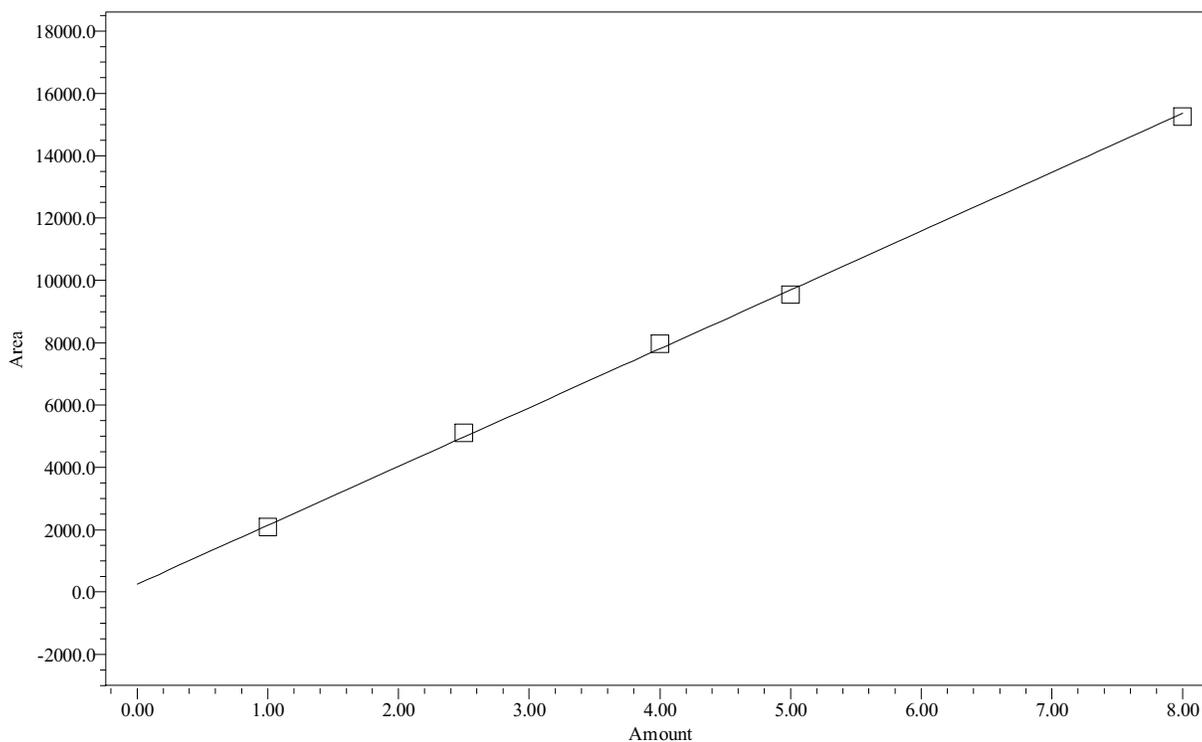
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Name:	TCMX	Coefficient constant A:	254.367092
System Name:	Instrument_23_Ch01	Coefficient first Order B:	1888.168149
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999589
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.999177

Calibration Curve



Point Table  
Peak: TCMX

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	TCMX	1.00	2088	1.0	-2.871	No	No
2	TCMX	2.50	5111	2.6	2.882	No	No
3	TCMX	4.00	7975	4.1	2.224	No	No
4	TCMX	5.00	9549	4.9	-1.550	No	No
5	TCMX	8.00	15256	7.9	-0.685	No	No



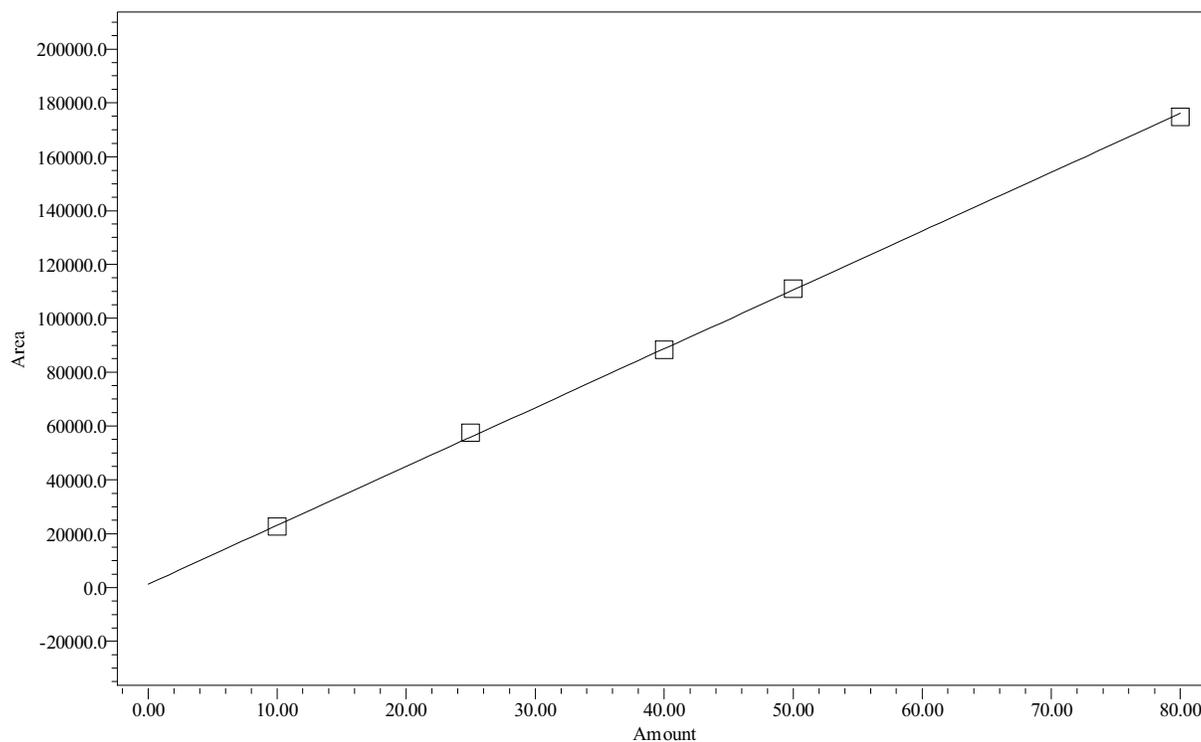
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Name:	DCBP	Coefficient constant A:	1279.935676
System Name:	Instrument_23_Ch01	Coefficient first Order B:	2185.664894
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999782
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.999564

Calibration Curve



Point Table  
Peak: DCBP

	Name	Amount ppB	Response	Calc. Value	% Deviation	Manual	Ignore
1	DCBP	10.00	22624	9.8	-2.346	No	No
2	DCBP	25.00	57569	25.8	3.014	No	No
3	DCBP	40.00	88377	39.8	-0.376	No	No
4	DCBP	50.00	111056	50.2	0.451	No	No
5	DCBP	80.00	174835	79.4	-0.742	No	No



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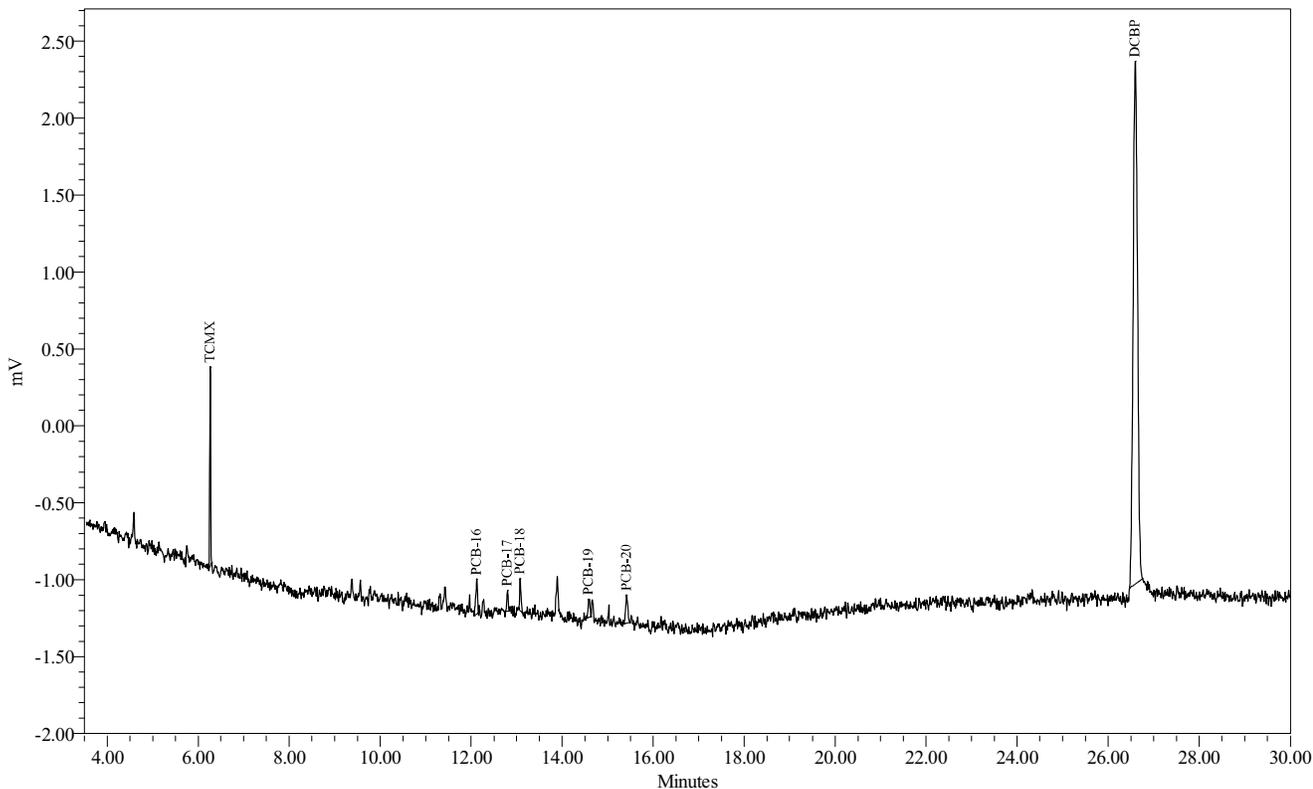
Sample Name: 040754A Sample Amount: 1  
Sample ID: A1254 5 PPB Dilution: 1  
Date Acquired: 4/8/2009 2:07:23 AM EDT Extract Volume: 1  
Project Name: GC23F\_Apr\_2009 Date Processed: 4/8/2009 6:20:41 AM EDT  
Sample Set Name: GC23F\_LLCC\_040709 User Name: Anthony Maiello (TonyM)  
Processing Method: GC23F\_CCLL\_040709 Current Date: 5/1/2009  
Run Time: 30.0 Minutes Current Time: 4:24:47 PM US/Eastern  
Report Name: CalStd\_rpt\_plt\_1254 LIMS File ID: GC23F-30-28

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL
1 TCMX	6.264	bb	2088	1.000
2 PCB-16	12.121	bb	571	
3 PCB-17	12.796	bb	292	
4 PCB-18	13.077	bb	470	
5 PCB-19	14.582	bb	339	
6 PCB-20	15.415	bb	619	
7 DCBP	26.598	bb	22624	10.000

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	2292	5.000
2 A1254-17/18	1530	5.000
3 A1254-19/20	1334	5.000
4 A1254-20	1673	5.000
5 A1260	619	
6 A1260-23/24	619	





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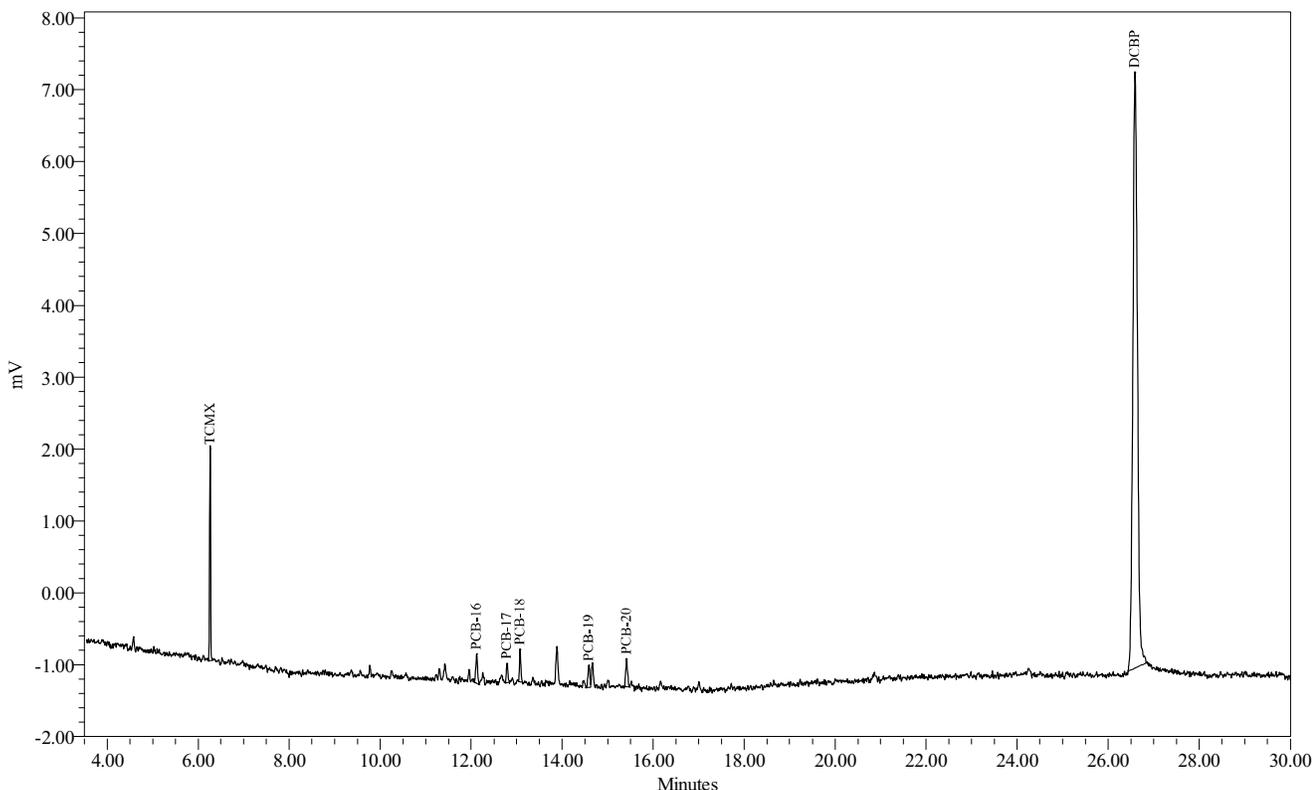
Sample Name: 040754B Sample Amount: 1  
Sample ID: A1254 10 PPB Dilution: 1  
Date Acquired: 4/8/2009 2:39:57 AM EDT Extract Volume: 1  
Project Name: GC23F\_Apr\_2009 Date Processed: 4/8/2009 6:21:32 AM EDT  
Sample Set Name: GC23F\_LLCC\_040709 User Name: Anthony Maiello (TonyM)  
Processing Method: GC23F\_CCLL\_040709 Current Date: 5/1/2009  
Run Time: 30.0 Minutes Current Time: 4:25:04 PM US/Eastern  
Report Name: CalStd\_rpt\_plt\_1254 LIMS File ID: GC23F-30-29

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL
1 TCMX	6.261	bb	5111	2.500
2 PCB-16	12.119	bb	1011	
3 PCB-17	12.788	bb	628	
4 PCB-18	13.075	bb	1074	
5 PCB-19	14.585	bV	853	
6 PCB-20	15.416	bb	1153	
7 DCBP	26.590	bB	57569	25.000

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	4719	10.000
2 A1254-17/18	3017	10.000
3 A1254-19/20	2712	10.000
4 A1254-20	3565	10.000
5 A1260	1153	
6 A1260-23/24	1153	





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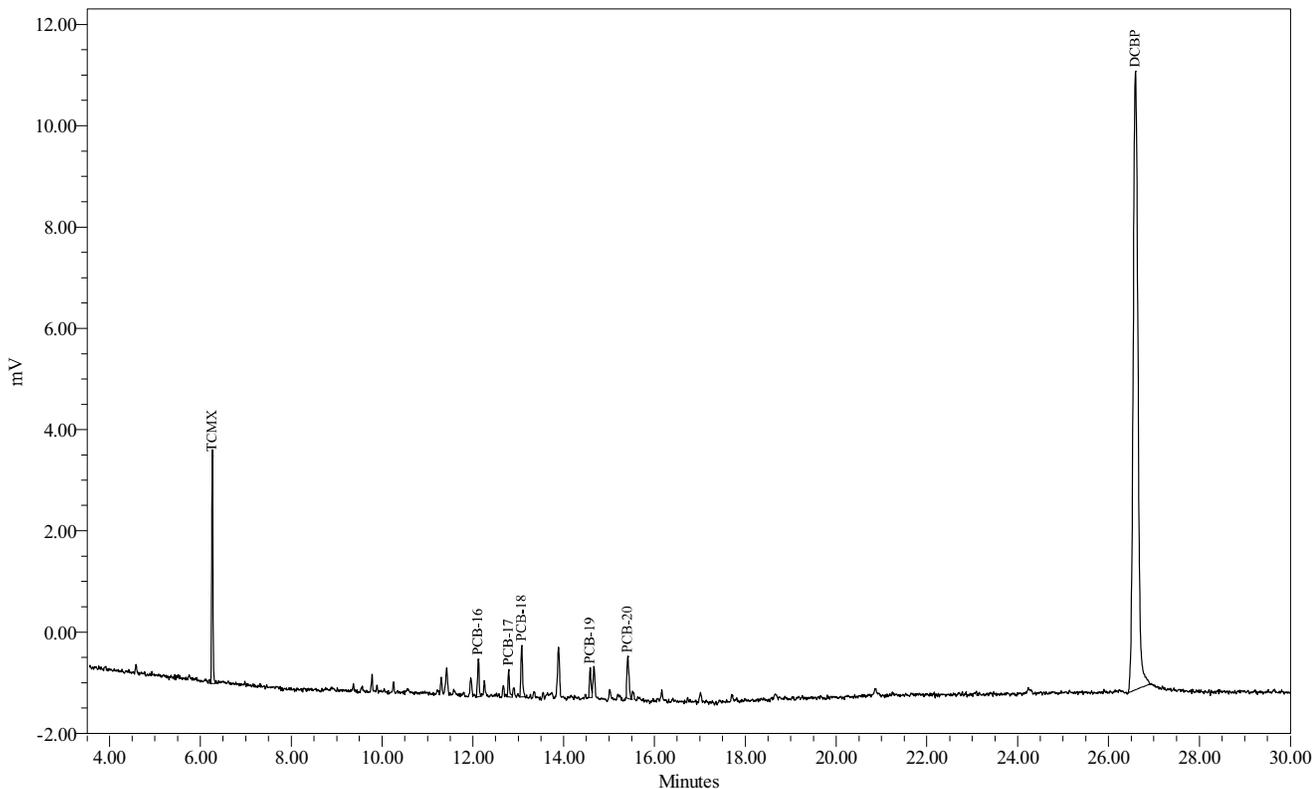
Sample Name: 040754C Sample Amount: 1  
Sample ID: A1254 20 PPB Dilution: 1  
Date Acquired: 4/8/2009 3:12:32 AM EDT Extract Volume: 1  
Project Name: GC23F\_Apr\_2009 Date Processed: 4/8/2009 6:22:01 AM EDT  
Sample Set Name: GC23F\_LLCC\_040709 User Name: Anthony Maiello (TonyM)  
Processing Method: GC23F\_CCLL\_040709 Current Date: 5/1/2009  
Run Time: 30.0 Minutes Current Time: 4:25:14 PM US/Eastern  
Report Name: CalStd\_rpt\_plt\_1254 LIMS File ID: GC23F-30-30

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL
1 TCMX	6.262	bb	7975	4.000
2 PCB-16	12.118	bb	1768	
3 PCB-17	12.789	bV	1352	
4 PCB-18	13.077	Vb	2515	
5 PCB-19	14.584	bV	1530	
6 PCB-20	15.415	bb	2478	
7 DCBP	26.594	bb	88377	40.000

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	9643	20.000
2 A1254-17/18	5777	20.000
3 A1254-19/20	5634	20.000
4 A1254-20	7165	20.000
5 A1260	2478	
6 A1260-23/24	2478	





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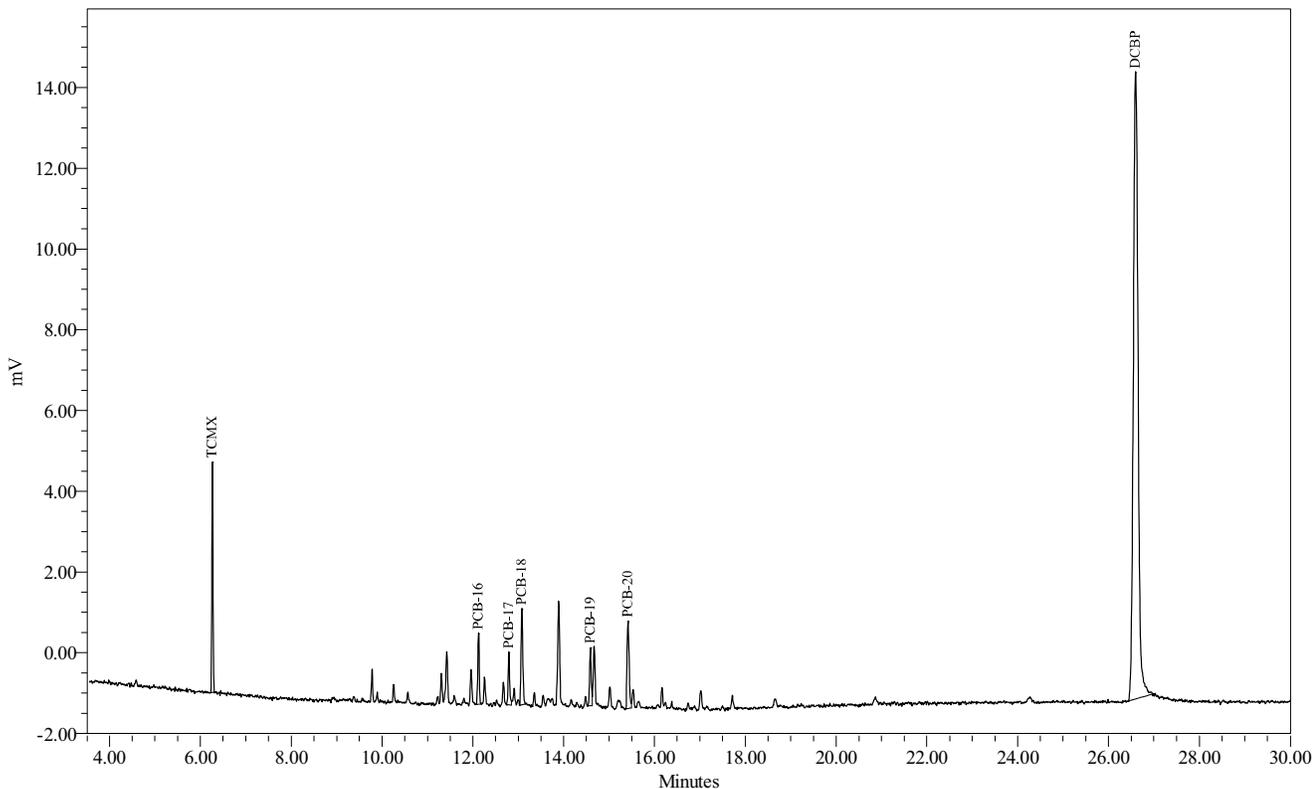
Sample Name:	040754D	Sample Amount:	1
Sample ID:	A1254 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 3:45:07 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:22:57 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:25:20 PM US/Eastern
Report Name:	CalStd_rpt_plt_1254	LIMS File ID:	GC23F-30-31

Peak Results

	Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL
1	TCMX	6.265	bb	9549	5.000
2	PCB-16	12.123	bb	4147	
3	PCB-17	12.794	bV	3315	
4	PCB-18	13.081	Bb	6181	
5	PCB-19	14.588	bV	3885	
6	PCB-20	15.418	bV	6596	
7	DCBP	26.596	bb	111056	50.000

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1	A1254	24124	50.000
2	A1254-17/18	14628	50.000
3	A1254-19/20	13643	50.000
4	A1254-20	17528	50.000
5	A1260	6596	
6	A1260-23/24	6596	





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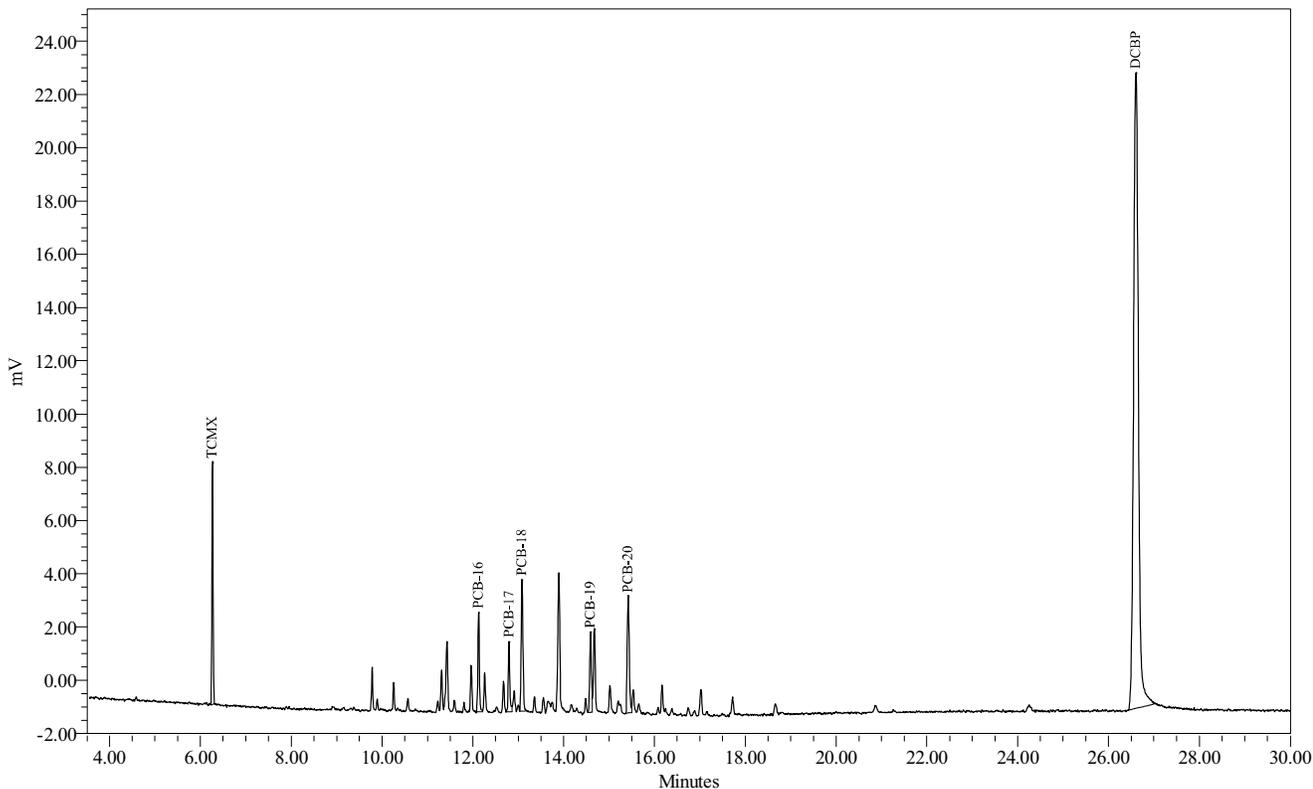
Sample Name:	040754E	Sample Amount:	1
Sample ID:	A1254 100 PPB	Dilution:	1
Date Acquired:	4/8/2009 4:17:42 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 6:23:31 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:25:30 PM US/Eastern
Report Name:	CalStd_rpt_plt_1254	LIMS File ID:	GC23F-30-32

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL
1 TCMX	6.267	bb	15256	8.000
2 PCB-16	12.125	bV	8846	
3 PCB-17	12.798	bV	6823	
4 PCB-18	13.084	Vb	12680	
5 PCB-19	14.591	bV	8390	
6 PCB-20	15.422	bV	13201	
7 DCBP	26.604	bb	174835	80.000

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	49941	100.000
2 A1254-17/18	30437	100.000
3 A1254-19/20	28349	100.000
4 A1254-20	36740	100.000
5 A1260	13201	
6 A1260-23/24	13201	





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System Name: Instrument\_23\_Ch01  
Sample Set Name: GC23F\_LLCC\_040709  
Sample Set Date: 4/7/2009 11:25:17 AM EDT  
Processing Method: GC23F\_CLL\_040709

Date Calibrated: 4/8/2009 12:49:04 PM EDT  
Method Report: CCSum by RF 02  
User Name: Anthony Maiello (TonyM)

Calibration Component Summary Table  
Component Summary For RF

	Sample Name	A1260	A1260-20	A1260-23/24
1	040760A	729.7448	543.5533	632.0185
2	040760B	724.7117	537.6157	602.4411
3	040760C	736.5557	550.6462	599.5821
4	040760D	714.6717	539.4081	594.8034
5	040760E	689.3653	514.5277	575.8319
Mean		719.010	537.150	600.935
Std. Dev.		18.393	13.604	20.236
% RSD		2.56	2.53	3.37



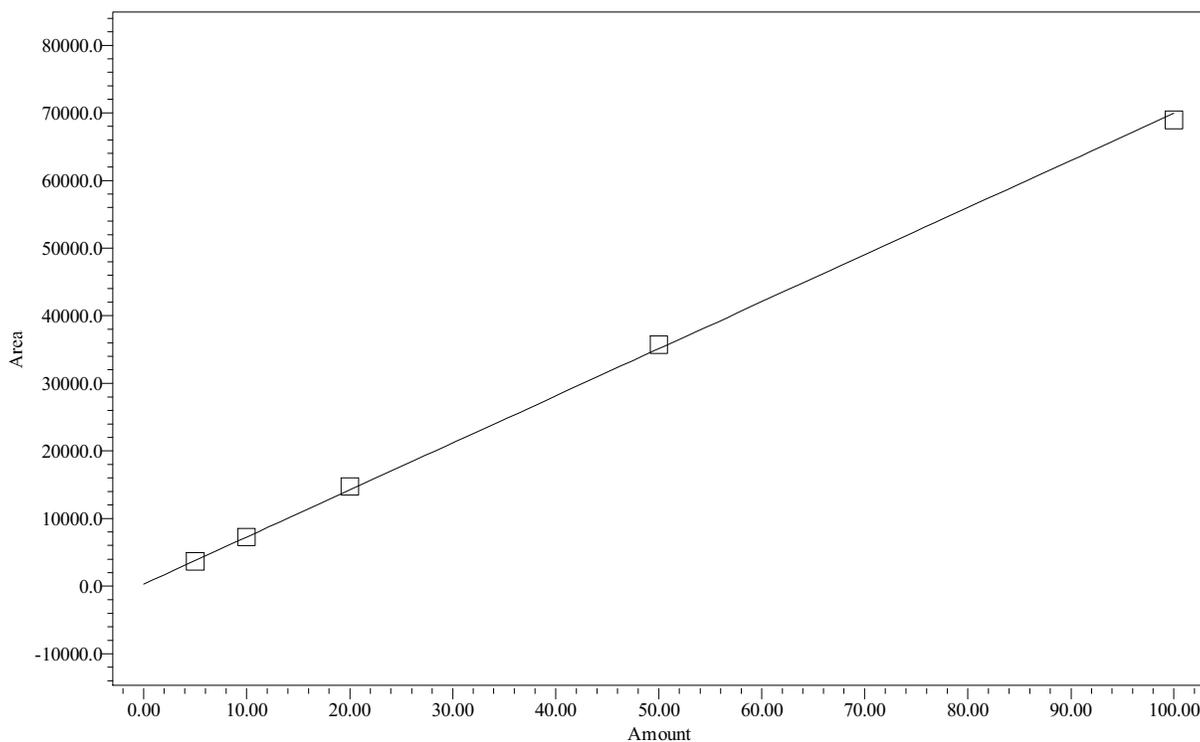
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Name:	A1260	Coefficient constant A:	300.193175
System Name:	Instrument_23_Ch01	Coefficient first Order B:	696.195156
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999707
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.999415

Calibration Curve



Point Table  
Peak: A1260

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1260	5.00	3649	4.8	-3.805	No	No
2	A1260	10.00	7247	10.0	-0.216	No	No
3	A1260	20.00	14731	20.7	3.641	No	No
4	A1260	50.00	35734	50.9	1.792	No	No
5	A1260	100.00	68937	98.6	-1.412	No	No



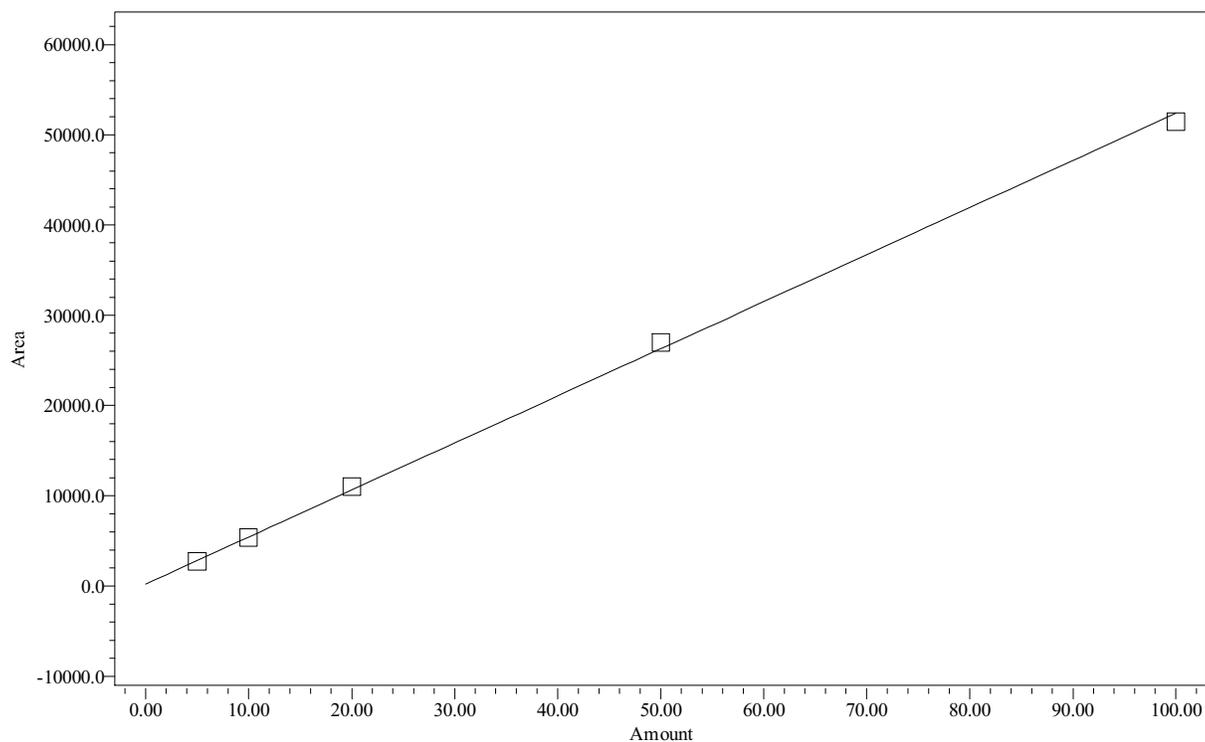
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Name:	A1260-20	Coefficient constant A:	203.395463
System Name:	Instrument_23_Ch01	Coefficient first Order B:	521.692124
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999587
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999175

Calibration Curve



Point Table  
Peak: A1260-20

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1260-20	5.00	2718	4.8	-3.607	No	No
2	A1260-20	10.00	5376	9.9	-0.846	No	No
3	A1260-20	20.00	11013	20.7	3.601	No	No
4	A1260-20	50.00	26970	51.3	2.616	No	No
5	A1260-20	100.00	51453	98.2	-1.763	No	No



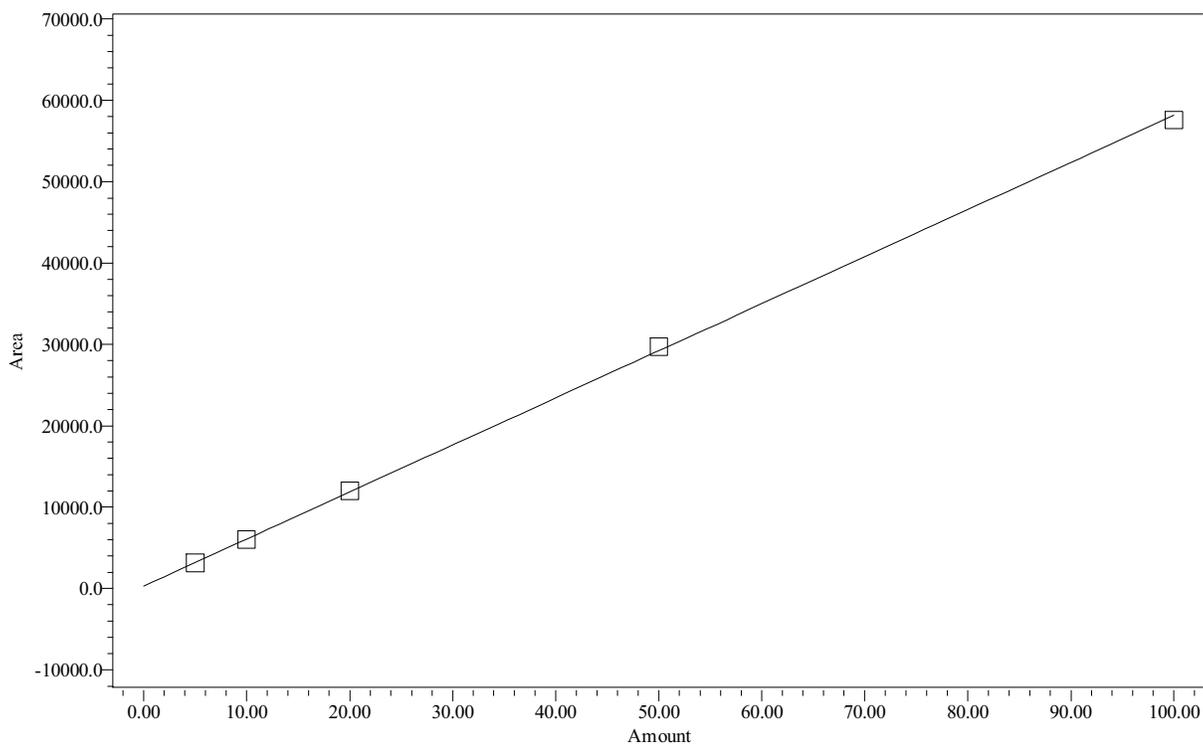
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Name:	A1260-23/24	Coefficient constant A:	295.092927
System Name:	Instrument_23_Ch01	Coefficient first Order B:	578.508331
Date Calibrated:	4/8/2009 12:49:04 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23F_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999877
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999754

Calibration Curve



Point Table  
Peak: A1260-23/24

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1260-23/24	5.00	3160	5.0	-0.952	No	No
2	A1260-23/24	10.00	6024	9.9	-0.964	No	No
3	A1260-23/24	20.00	11992	20.2	1.092	No	No
4	A1260-23/24	50.00	29740	50.9	1.797	No	No
5	A1260-23/24	100.00	57583	99.0	-0.973	No	No



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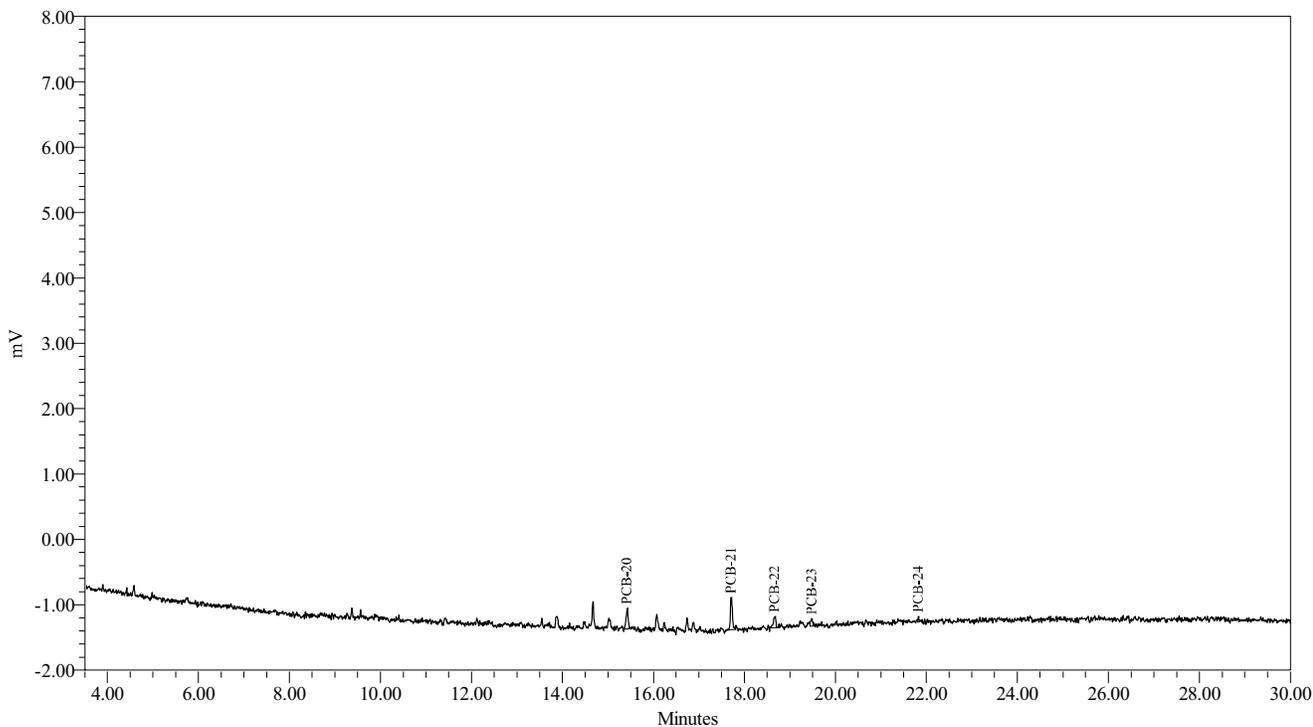
Sample Name:	040760A	Sample Amount:	1
Sample ID:	A1260 5 PPB	Dilution:	1
Date Acquired:	4/8/2009 4:50:17 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 12:45:07 PM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:28:22 PM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23F-30-33

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-20	15.425	bb	931
2 PCB-21	17.711	bb	1550
3 PCB-22	18.672	bb	679
4 PCB-23	19.483	VV	360
5 PCB-24	21.827	vV	129

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	931	
2 A1254-17/18	931	
3 A1260	3649	5.000
4 A1260-20	2718	5.000
5 A1260-23/24	3160	5.000





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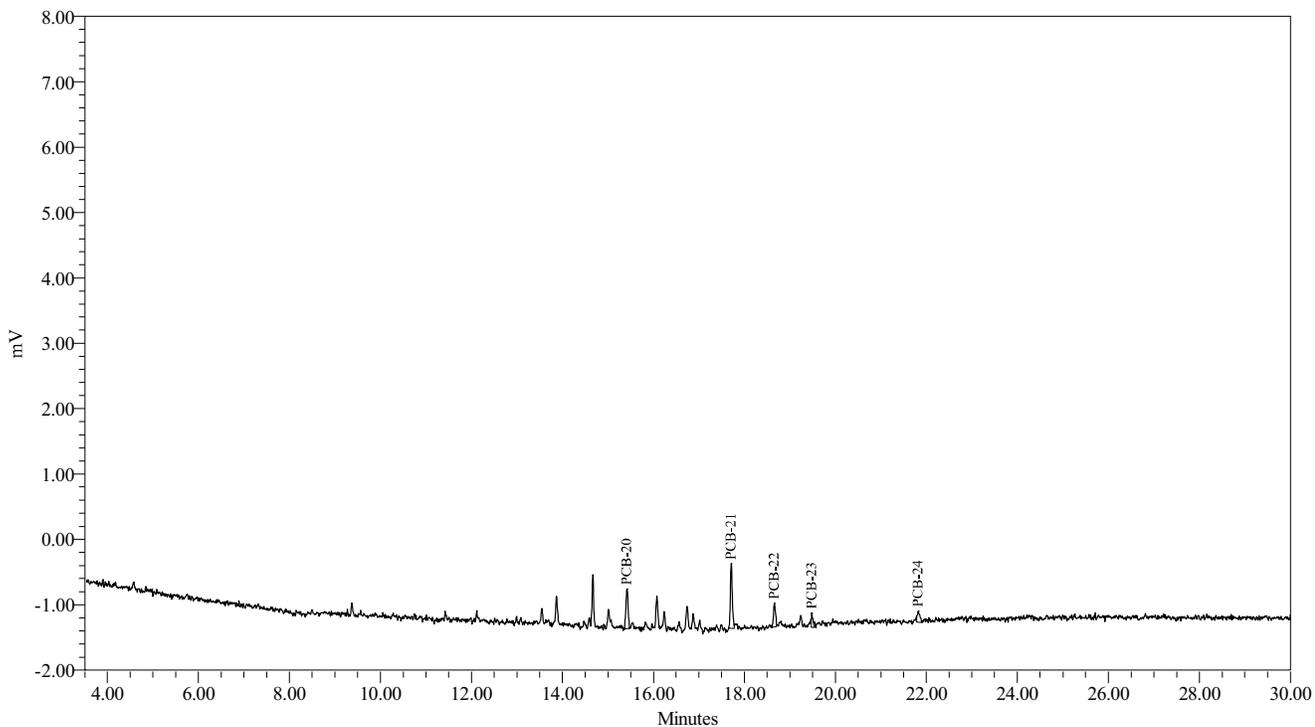
Sample Name: 040760B Sample Amount: 1  
Sample ID: A1260 10 PPB Dilution: 1  
Date Acquired: 4/8/2009 5:22:52 AM EDT Extract Volume: 1  
Project Name: GC23F\_Apr\_2009 Date Processed: 4/8/2009 12:45:58 PM EDT  
Sample Set Name: GC23F\_LLCC\_040709 User Name: Anthony Maiello (TonyM)  
Processing Method: GC23F\_CCLL\_040709 Current Date: 5/1/2009  
Run Time: 30.0 Minutes Current Time: 4:28:38 PM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23F-30-34

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-20	15.419	bb	1871
2 PCB-21	17.713	bV	3009
3 PCB-22	18.659	bv	1145
4 PCB-23	19.483	VV	547
5 PCB-24	21.821	Vb	676

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	1871	
2 A1254-17/18	1871	
3 A1260	7247	10.000
4 A1260-20	5376	10.000
5 A1260-23/24	6024	10.000





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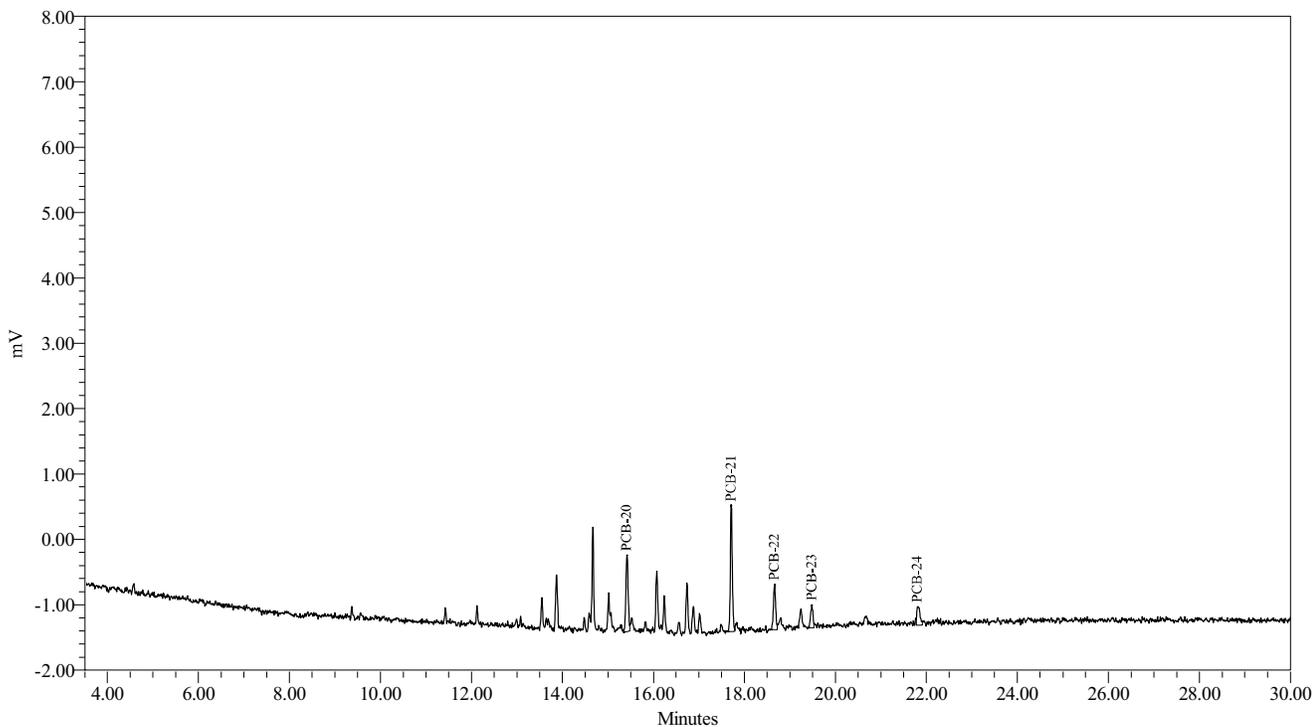
Sample Name: 040760C Sample Amount: 1  
Sample ID: A1260 20 PPB Dilution: 1  
Date Acquired: 4/8/2009 5:55:27 AM EDT Extract Volume: 1  
Project Name: GC23F\_Apr\_2009 Date Processed: 4/8/2009 12:47:18 PM EDT  
Sample Set Name: GC23F\_LLCC\_040709 User Name: Anthony Maiello (TonyM)  
Processing Method: GC23F\_CCLL\_040709 Current Date: 5/1/2009  
Run Time: 30.0 Minutes Current Time: 4:28:46 PM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23F-30-35

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-20	15.418	bV	3718
2 PCB-21	17.711	bV	5893
3 PCB-22	18.662	bV	2380
4 PCB-23	19.481	bv	1325
5 PCB-24	21.805	VV	1415

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	3718	
2 A1254-17/18	3718	
3 A1260	14731	20.000
4 A1260-20	11013	20.000
5 A1260-23/24	11992	20.000





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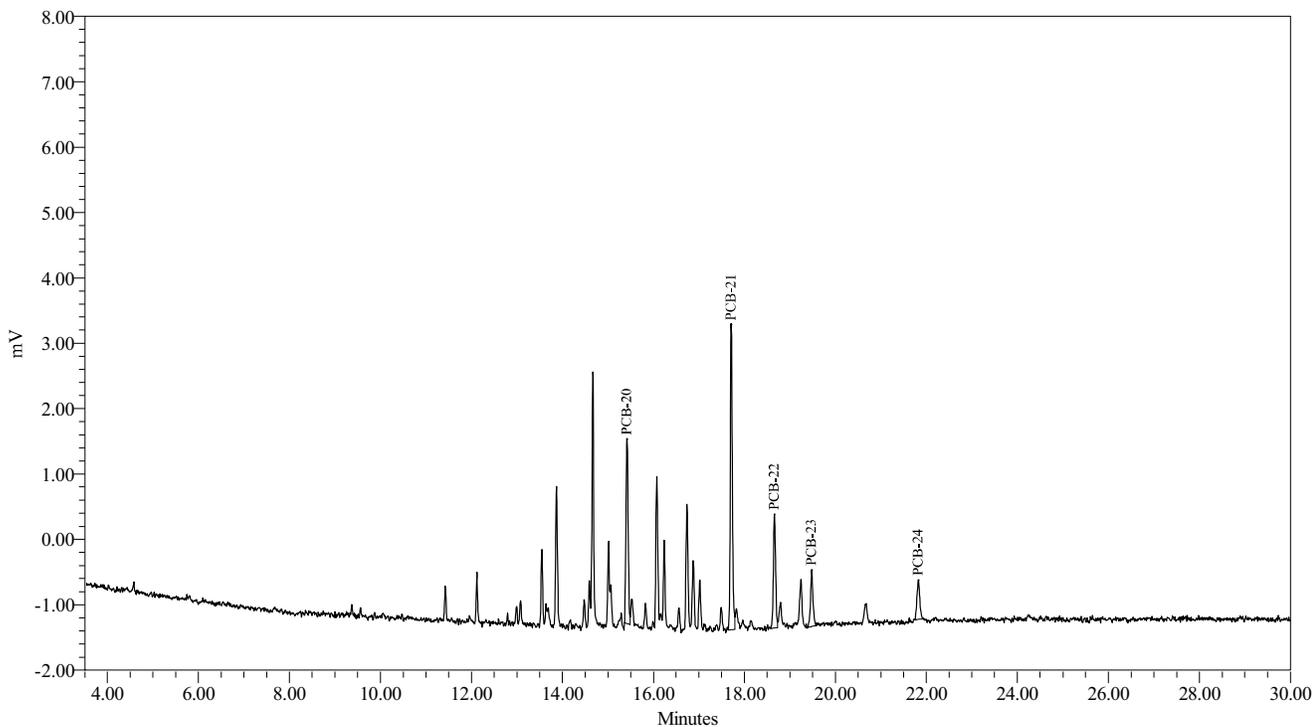
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Sample ID: A1260 50 PPB Dilution: 1  
Date Acquired: 4/8/2009 6:28:02 AM EDT Extract Volume: 1  
Project Name: GC23F\_Apr\_2009 Date Processed: 4/8/2009 12:48:08 PM EDT  
Sample Set Name: GC23F\_LLCC\_040709 User Name: Anthony Maiello (TonyM)  
Processing Method: GC23F\_CCLL\_040709 Current Date: 5/1/2009  
Run Time: 30.0 Minutes Current Time: 4:28:55 PM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23F-30-36

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-20	15.419	bV	8763
2 PCB-21	17.711	bV	14938
3 PCB-22	18.659	bV	6039
4 PCB-23	19.480	bb	3382
5 PCB-24	21.822	bb	2612

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	8763	
2 A1254-17/18	8763	
3 A1260	35734	50.000
4 A1260-20	26970	50.000
5 A1260-23/24	29740	50.000





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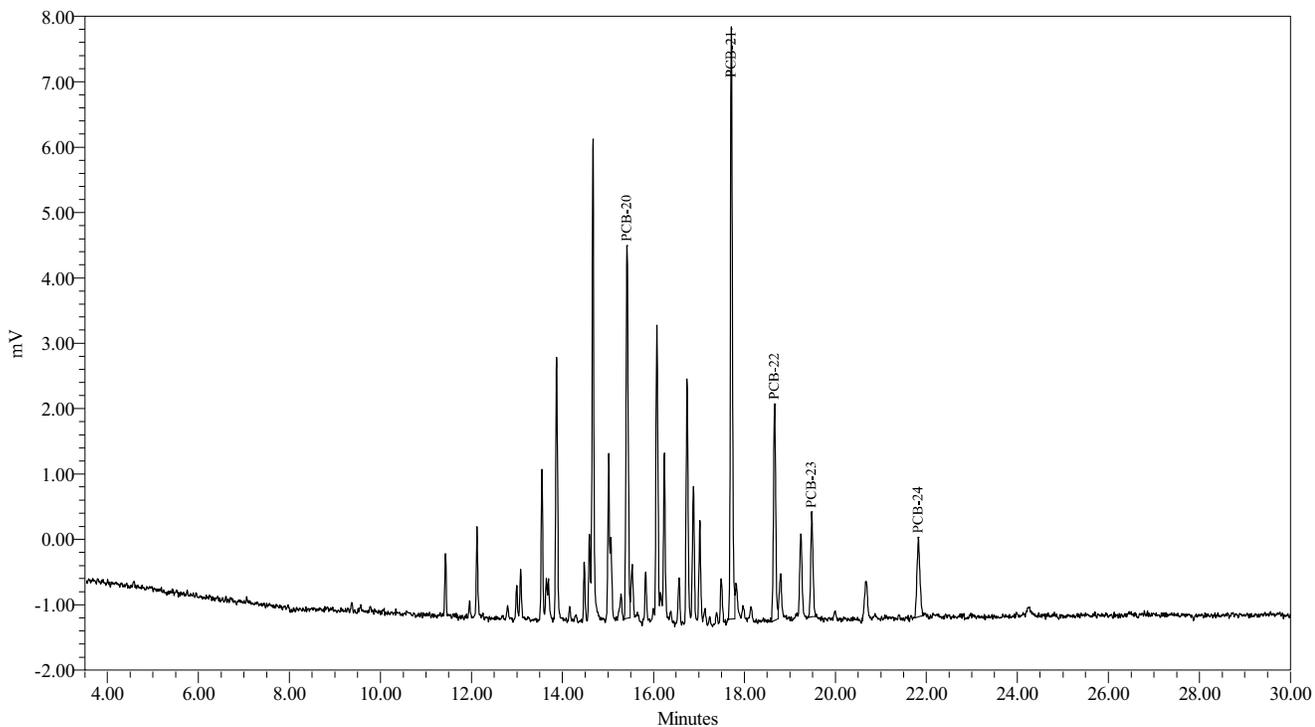
Sample Name: 040760E Sample Amount: 1  
Sample ID: A1260 100 PPB Dilution: 1  
Date Acquired: 4/8/2009 7:00:37 AM EDT Extract Volume: 1  
Project Name: GC23F\_Apr\_2009 Date Processed: 4/8/2009 12:49:01 PM EDT  
Sample Set Name: GC23F\_LLCC\_040709 User Name: Anthony Maiello (TonyM)  
Processing Method: GC23F\_CCLL\_040709 Current Date: 5/1/2009  
Run Time: 30.0 Minutes Current Time: 4:29:05 PM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23F-30-37

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-20	15.420	bV	17484
2 PCB-21	17.714	bV	28484
3 PCB-22	18.663	bV	11616
4 PCB-23	19.481	bb	5865
5 PCB-24	21.824	bb	5488

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	17484	
2 A1254-17/18	17484	
3 A1260	68937	100.000
4 A1260-20	51453	100.000
5 A1260-23/24	57583	100.000



# Initial/Continuing Calibration Data (GC-23F)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Northeast Analytical, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC23F  
 GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

SDG NO: 09060293

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	DATE / TIME ANALYZED
Aroclor 1016	GC23F-30-39	CS160407A	ICV	50.9	50	1.78	04/08/2009 08:05:45
Aroclor 1221	GC23F-30-40	CS210407A	ICV	54.2	50	8.35	04/08/2009 08:38:19
Aroclor 1232	GC23F-30-41	CS320407A	ICV	51.8	50	3.53	04/08/2009 09:10:54
Aroclor 1242	GC23F-30-42	CS420407A	ICV	48.1	50	-3.90	04/08/2009 09:43:28
Aroclor 1248	GC23F-30-43	CS480407A	ICV	50.8	50	1.62	04/08/2009 10:16:04
Aroclor 1254	GC23F-30-44	CS540407A	ICV	50.3	50	0.508	04/08/2009 10:48:39
Aroclor 1260	GC23F-30-45	CS600407A	ICV	49.4	50	-1.22	04/08/2009 11:21:14
Aroclor 1242	GC23F-105-18	CS420624A	CCV	44.9	50	-10.1	06/24/2009 22:09:11
Aroclor 1248	GC23F-106-5	CS480625A	CCV	51.2	50	2.35	06/25/2009 02:40:37

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Northeast Analytical, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC23F  
 GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

SGD NO: 09060293

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC23F-30-39	CS160407A	ICV	1	7.89	7.81	7.97
			ICV	2	8.29	8.21	8.37
			ICV	3	8.94	8.86	9.02
			ICV	4	9.15	9.07	9.23
			ICV	5	9.30	9.22	9.38
Aroclor 1221	GC23F-30-40	CS210407A	ICV	1	4.83	4.75	4.91
			ICV	2	6.11	6.03	6.19
			ICV	3	6.66	6.58	6.74
			ICV	4	6.86	6.78	6.94
			ICV	5	6.98	6.90	7.06
Aroclor 1232	GC23F-30-41	CS320407A	ICV	1	6.98	6.90	7.06
			ICV	2	8.28	8.20	8.36
			ICV	3	8.94	8.86	9.02
			ICV	4	9.16	9.08	9.24
			ICV	5	9.30	9.22	9.38
Aroclor 1242	GC23F-30-42	CS420407A	ICV	1	7.89	7.81	7.97
			ICV	2	8.29	8.21	8.37
			ICV	3	8.94	8.86	9.02
			ICV	4	9.15	9.07	9.23
			ICV	5	9.30	9.22	9.38
Aroclor 1248	GC23F-30-43	CS480407A	ICV	1	9.89	9.81	9.97
			ICV	2	10.56	10.48	10.64
			ICV	3	11.22	11.14	11.30
			ICV	4	11.39	11.31	11.47
			ICV	5	11.80	11.72	11.88
Aroclor 1254	GC23F-30-44	CS540407A	ICV	1	12.12	12.04	12.20
			ICV	2	12.79	12.71	12.87
			ICV	3	13.08	13.00	13.16
			ICV	4	14.59	14.51	14.67
			ICV	5	15.42	15.34	15.50
Aroclor 1260	GC23F-30-45	CS600407A	ICV	1	15.42	15.34	15.50
			ICV	2	17.72	17.64	17.80
			ICV	3	18.67	18.59	18.75
			ICV	4	19.48	19.40	19.56
			ICV	5	21.82	21.74	21.90

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Northeast Analytical, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC23F  
 GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

SGD NO: 09060293

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1242	GC23F-105-18	CS420624A	CCV	1	7.89	7.81	7.97
			CCV	2	8.28	8.21	8.37
			CCV	3	8.94	8.86	9.02
			CCV	4	9.15	9.07	9.23
			CCV	5	9.30	9.22	9.38
Aroclor 1248	GC23F-106-5	CS480625A	CCV	1	9.89	9.81	9.97
			CCV	2	10.56	10.48	10.64
			CCV	3	11.22	11.14	11.30
			CCV	4	11.39	11.31	11.47
			CCV	5	11.80	11.72	11.88

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification



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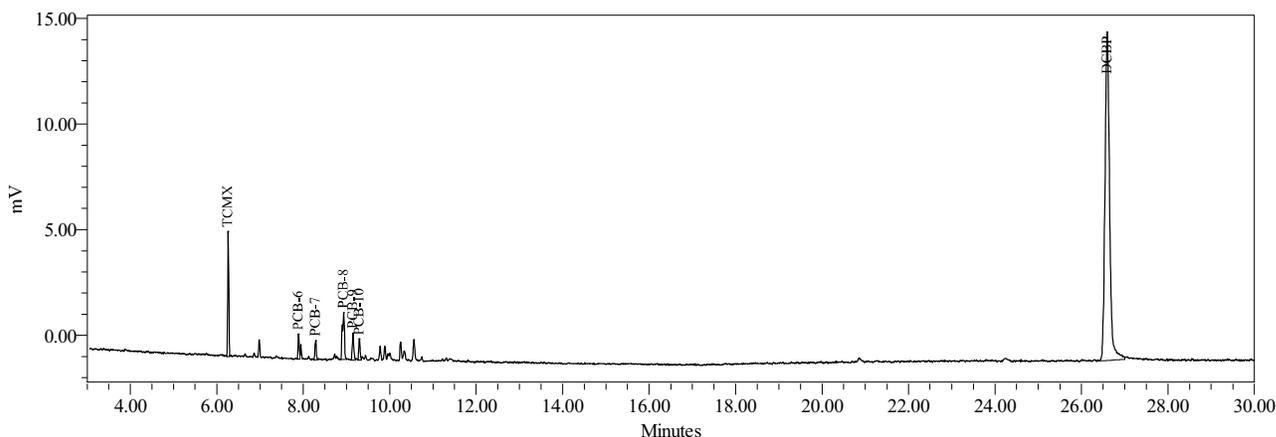
Sample Name:	CS160407A	Sample Amount:	1
Sample ID:	A1016 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 8:05:45 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 10:32:24 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:30:33 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23F-30-39

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.263	bV	9889	5.103	102.1	
2 PCB-6	7.893	bV	2098			
3 PCB-7	8.286	bb	2234			
4 PCB-8	8.937	bv	7361			
5 PCB-9	9.154	bV	2923			
6 PCB-10	9.299	bV	2063			
7 DCBP	26.595	bv	115309	52.171		104.3

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1016	16679	50.891	1.78	X	
2 A1232	14581	95.449	90.90		
3 A1232-8/9	4297	60.677	21.35		
4 A1242	16679	60.561	21.12		





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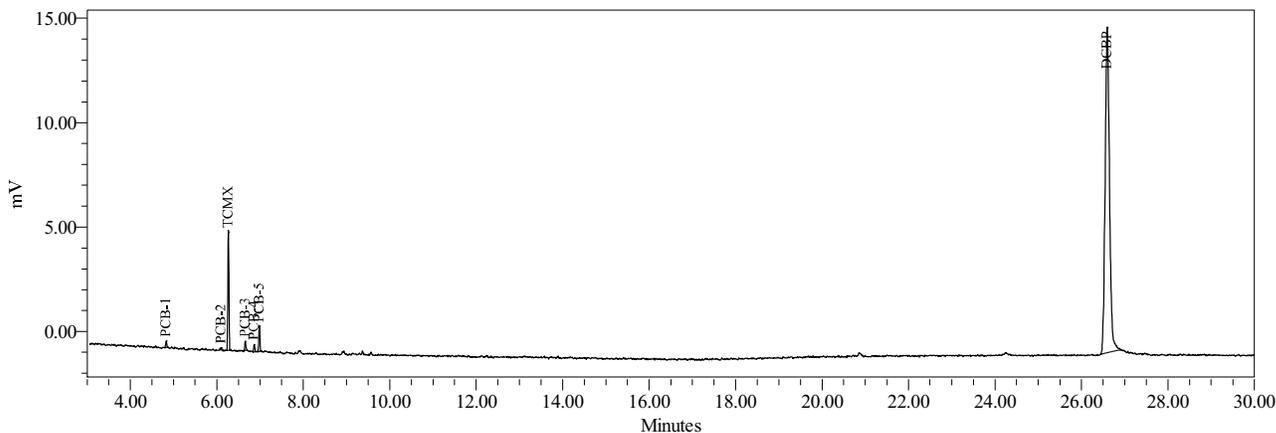
Sample Name:	CS210407A	Sample Amount:	1
Sample ID:	A1221 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 8:38:19 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 2:34:21 PM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:30:50 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23F-30-40

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 PCB-1	4.829	bb	455			
2 PCB-2	6.105	bb	245			
3 TCMX	6.266	bb	9587	4.942	98.8	
4 PCB-3	6.663	bb	877			
5 PCB-4	6.863	bb	573			
6 PCB-5	6.985	bb	2165			
7 DCBP	26.594	bb	109333	49.437		98.9

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1221	4316	54.174	8.35	X	
2 A1221-2	4071	54.462	8.92		
3 A1221-4	3742	54.388	8.78		
4 A1221-5	2151	53.509	7.02		
5 A1232	2165	13.882	-72.24		
6 A1232-8/9	2165	30.221	-39.56		





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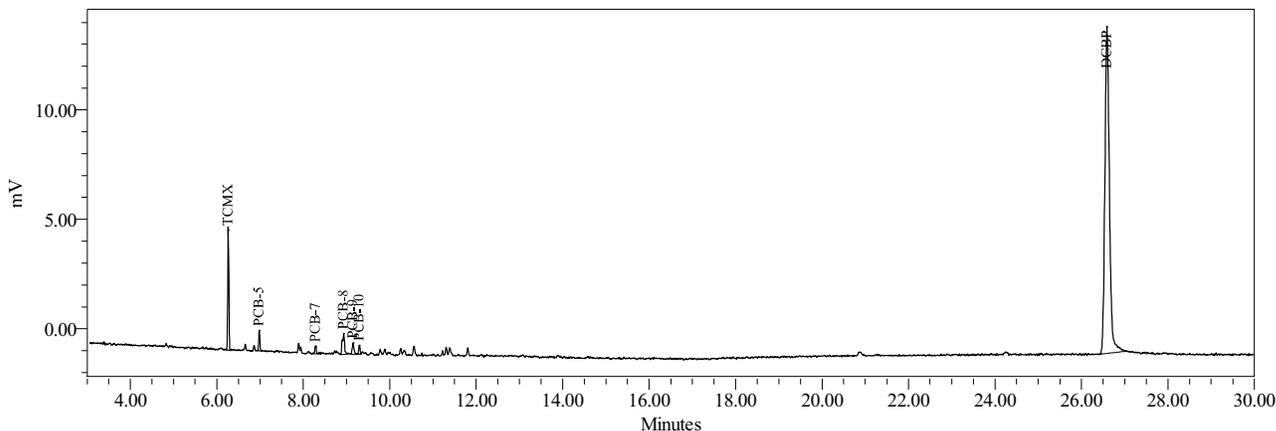
Sample Name:	CS320407A	Sample Amount:	1
Sample ID:	A1232 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 9:10:54 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 10:41:33 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:31:00 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23F-30-41

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.264	bV	9524	4.909	98.2	
2 PCB-5	6.983	bb	1721			
3 PCB-7	8.285	bb	905			
4 PCB-8	8.937	bV	3213			
5 PCB-9	9.155	vV	1286			
6 PCB-10	9.300	bV	807			
7 DCBP	26.590	bb	109159	49.358		98.7

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1016	6211	19.218	-61.56		
2 A1221	1721	21.565	-56.87		
3 A1221-2	1721	22.953	-54.09		
4 A1221-4	1721	24.876	-50.25		
5 A1232	7932	51.766	3.53	X	
6 A1232-8/9	3433	48.334	-3.33		
7 A1242	6211	22.523	-54.95		





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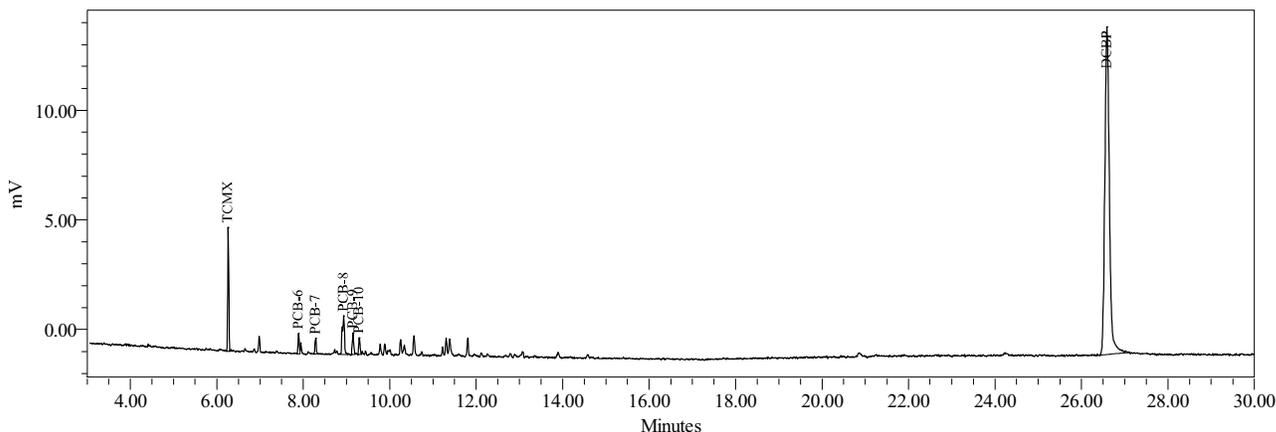
Sample Name:	CS420407A	Sample Amount:	1
Sample ID:	A1242 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 9:43:28 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 10:48:12 AM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:31:08 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23F-30-42

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.263	bb	9406	4.847	96.9	
2 PCB-6	7.893	bV	1694			
3 PCB-7	8.286	bV	1701			
4 PCB-8	8.936	Vb	6006			
5 PCB-9	9.152	bV	2200			
6 PCB-10	9.297	bV	1634			
7 DCBP	26.590	bb	109873	49.684		99.4

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1016	13236	40.475	-19.05		
2 A1232	11543	75.487	50.97		
3 A1232-8/9	3336	46.945	-6.11		
4 A1242	13236	48.052	-3.90	X	





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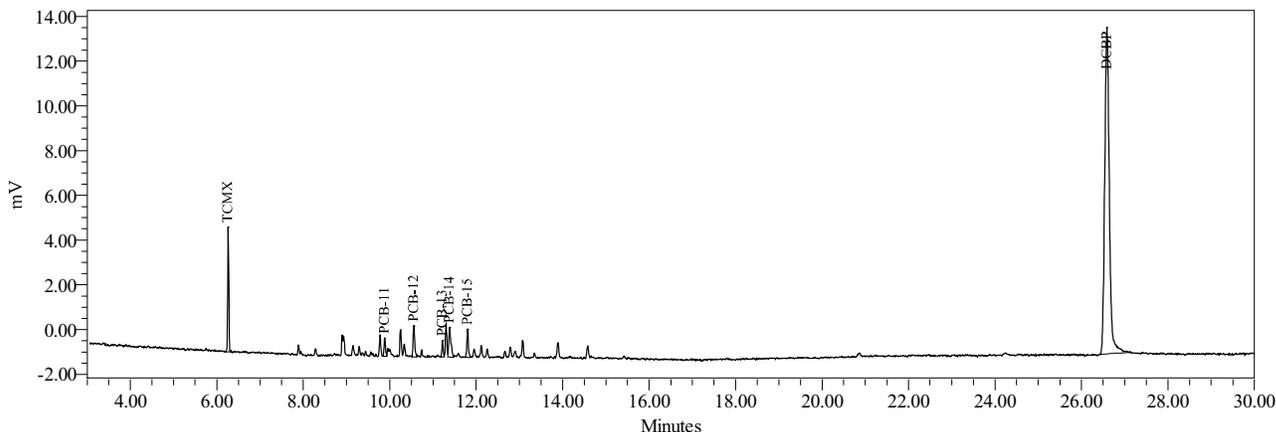
Sample Name:	CS480407A	Sample Amount:	1
Sample ID:	A1248 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 10:16:04 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 12:37:09 PM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:31:16 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23F-30-43

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.263	bb	9442	4.866	97.3	
2 PCB-11	9.886	bV	1703			
3 PCB-12	10.561	bV	3489			
4 PCB-13	11.219	bV	1717			
5 PCB-14	11.387	VV	4271			
6 PCB-15	11.801	bV	3266			
7 DCBP	26.590	bb	108534	49.072		98.1

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1248	14446	50.809	1.62	X	
2 A1248-11/15	9477	50.667	1.33		
3 A1248-14/15	6909	51.352	2.70		





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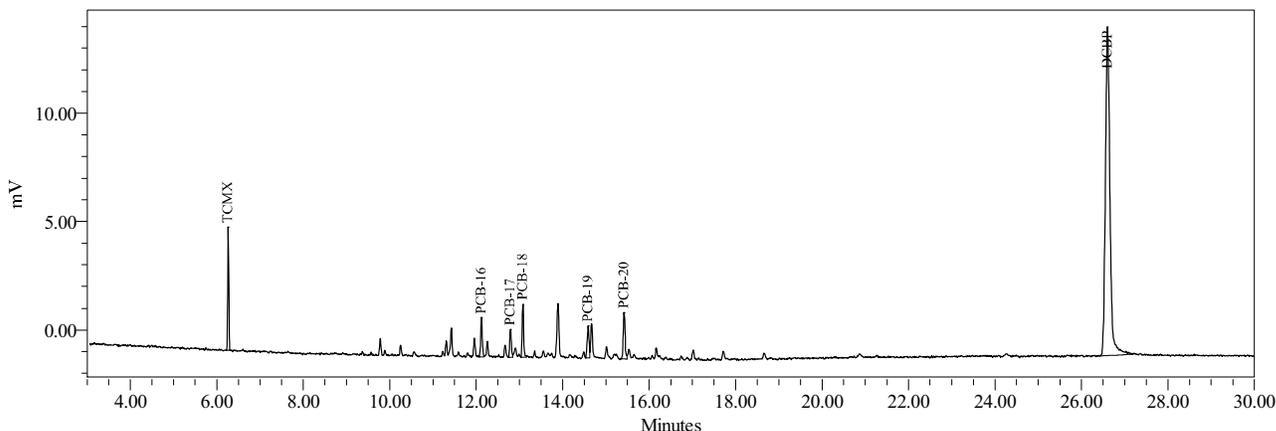
Sample Name:	CS540407A	Sample Amount:	1
Sample ID:	A1254 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 10:48:39 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 12:38:51 PM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:31:26 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23F-30-44

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.263	bb	9395	4.841	96.8	
2 PCB-16	12.122	bV	4530			
3 PCB-17	12.795	bV	3298			
4 PCB-18	13.081	bV	6180			
5 PCB-19	14.589	bV	4022			
6 PCB-20	15.421	bV	6698			
7 DCBP	26.602	bb	111153	50.270		100.5

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1254	24727	50.254	0.51	X	
2 A1254-17/18	15250	50.916	1.83		
3 A1254-19/20	14007	50.044	0.09		
4 A1254-20	18029	49.891	-0.22		
5 A1260	6698		-100.00		
6 A1260-23/24	6698		-100.00		





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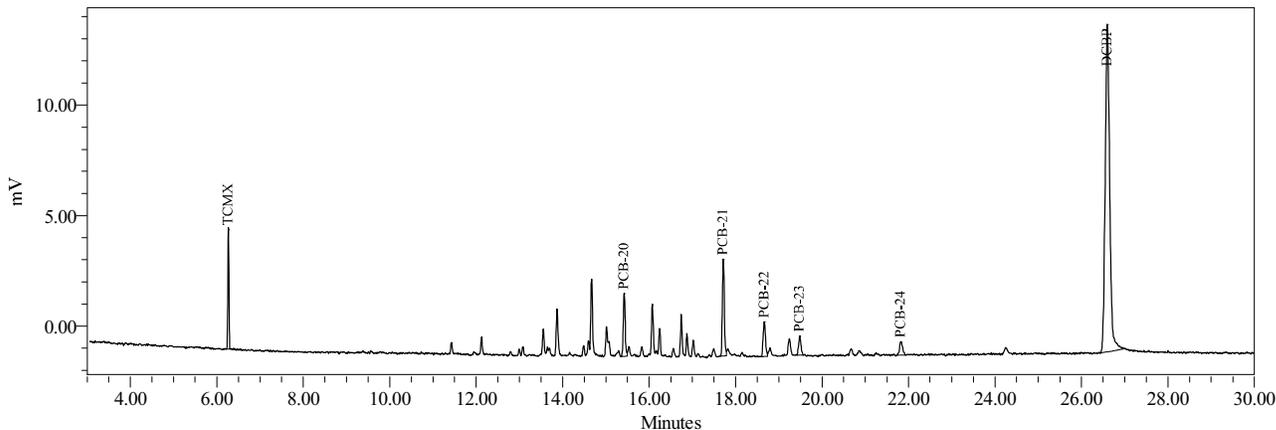
Sample Name:	CS600407A	Sample Amount:	1
Sample ID:	A1260 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 11:21:14 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	4/8/2009 12:53:07 PM EDT
Sample Set Name:	GC23F_LLCC_040709	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23F_CCLL_040709	Current Date:	5/1/2009
Run Time:	30.0 Minutes	Current Time:	4:31:35 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23F-30-45

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.266	bb	9178	4.726	94.5	
2 PCB-20	15.422	bV	8985			
3 PCB-21	17.716	bV	13726			
4 PCB-22	18.666	bV	5694			
5 PCB-23	19.484	bb	3155			
6 PCB-24	21.821	bb	3124			
7 DCBP	26.596	bb	107131	48.429		96.9

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1254	8985	18.563	-62.87		
2 A1254-17/18	8985	30.021	-39.96		
3 A1260	34684	49.389	-1.22	X	
4 A1260-20	25699	48.871	-2.26		
5 A1260-23/24	28405	48.591	-2.82		





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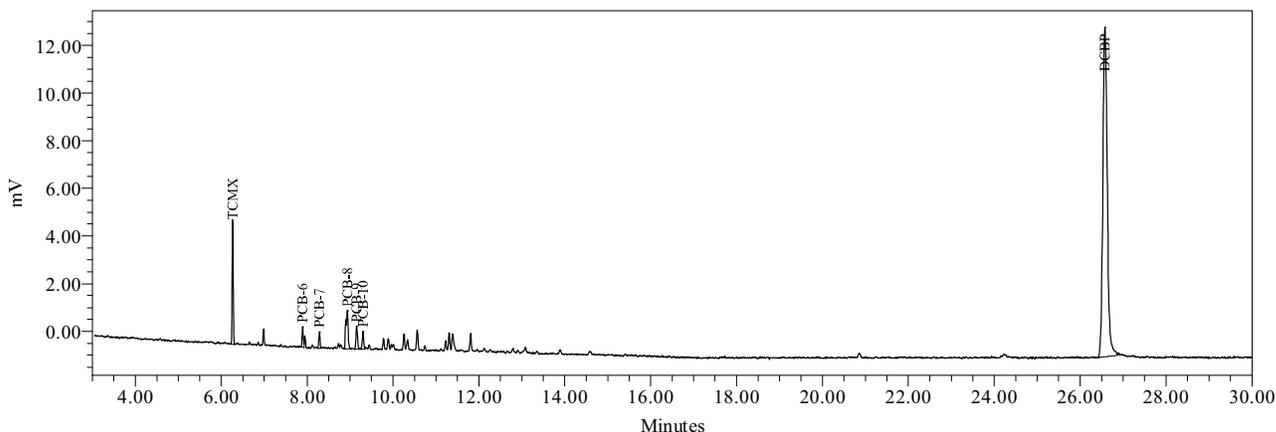
Sample Name:	CS420624A	Sample Amount:	1
Sample ID:	A1242 50 PPB	Dilution:	1
Date Acquired:	6/24/2009 10:09:11 PM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	6/24/2009 10:49:30 PM EDT
Sample Set Name:	GC23F_W_062409B	User Name:	Kari Lantiegne (KariL)
Processing Method:	GC23F_CCLL_040709	Current Date:	6/25/2009
Run Time:	30.0 Minutes	Current Time:	4:24:47 AM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23F-105-18

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.265	bb	8749	4.499	90.0	
2 PCB-6	7.893	bV	1496			
3 PCB-7	8.284	bb	1667			
4 PCB-8	8.938	bb	5477			
5 PCB-9	9.154	bb	2233			
6 PCB-10	9.300	bV	1505			
7 DCBP	26.580	bb	99950	45.144		90.3

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1016	12378	37.877	-24.25		
2 A1232	10881	71.144	42.29		
3 A1232-8/9	3172	44.597	-10.81		
4 A1242	12378	44.931	-10.14	X	





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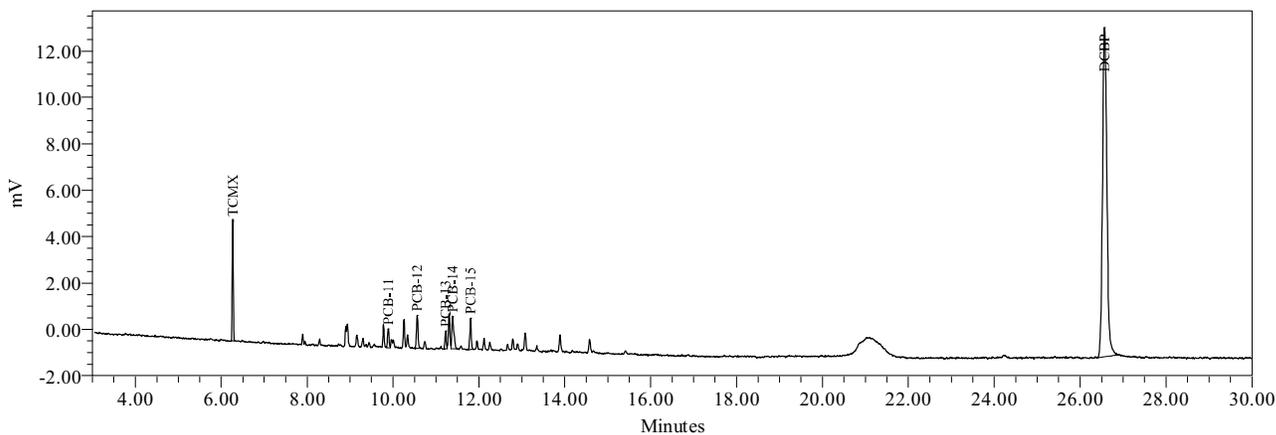
Sample Name:	CS480625A	Sample Amount:	1
Sample ID:	A1248 50 PPB	Dilution:	1
Date Acquired:	6/25/2009 2:40:37 AM EDT	Extract Volume:	1
Project Name:	GC23F_Apr_2009	Date Processed:	6/25/2009 4:11:19 AM EDT
Sample Set Name:	GC23F_W_062509	User Name:	Kari Lantiegne (KariL)
Processing Method:	GC23F_CCLL_040709	Current Date:	6/25/2009
Run Time:	30.0 Minutes	Current Time:	4:24:56 AM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23F-106-5

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.266	bb	8731	4.489	89.8	
2 PCB-11	9.888	bV	1748			
3 PCB-12	10.563	bb	3373			
4 PCB-13	11.223	bV	1753			
5 PCB-14	11.389	Vb	4235			
6 PCB-15	11.803	bb	3441			
7 DCBP	26.570	bb	101137	45.687		91.4

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1248	14550	51.173	2.35	X	
2 A1248-11/15	9361	50.048	0.10		
3 A1248-14/15	6874	51.090	2.18		



# Analytical Sequence (GC-23B)

**8-D-1**  
**PCB ANALYTICAL SEQUENCE**

Laboratory Name: Northeast Analytical, Inc.

SDG No: 09060293

ELAP ID No: 11078

Instrument ID: GC23B

Init. Calib. Date(s): 4/7/2009,4/8/2009

GC Column (1): J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
			TCMX RT: <u>6.50</u>	DCBP RT: <u>26.13</u>	
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT #	DCBP RT #
01	A1016 5 PPB	040716A	GC23B-21-3	04/07/2009 12:32:36	
02	A1016 10 PPB	040716B	GC23B-21-4	04/07/2009 13:05:12	
03	A1016 20 PPB	040716C	GC23B-21-5	04/07/2009 13:37:47	
04	A1016 50 PPB	040716D	GC23B-21-6	04/07/2009 14:10:23	
05	A1016 100 PPB	040716E	GC23B-21-7	04/07/2009 14:42:59	
06	A1221 5 PPB	040721A	GC23B-21-8	04/07/2009 15:15:34	
07	A1221 10 PPB	040721B	GC23B-21-9	04/07/2009 15:48:11	
08	A1221 20 PPB	040721C	GC23B-21-10	04/07/2009 16:20:46	
09	A1221 50 PPB	040721D	GC23B-21-11	04/07/2009 16:53:21	
10	A1221 100 PPB	040721E	GC23B-21-12	04/07/2009 17:25:55	
11	A1232 5 PPB	040732A	GC23B-21-13	04/07/2009 17:58:32	
12	A1232 10 PPB	040732B	GC23B-21-14	04/07/2009 18:31:08	
13	A1232 20 PPB	040732C	GC23B-21-15	04/07/2009 19:03:44	
14	A1232 50 PPB	040732D	GC23B-21-16	04/07/2009 19:36:21	
15	A1232 100 PPB	040732E	GC23B-21-17	04/07/2009 20:08:57	
16	A1242 5 PPB	040742A	GC23B-21-18	04/07/2009 20:41:35	
17	A1242 10 PPB	040742B	GC23B-21-19	04/07/2009 21:14:10	
18	A1242 20 PPB	040742C	GC23B-21-20	04/07/2009 21:46:44	
19	A1242 50 PPB	040742D	GC23B-21-21	04/07/2009 22:19:19	
20	A1242 100 PPB	040742E	GC23B-21-22	04/07/2009 22:51:55	
21	A1248 5 PPB	040748A	GC23B-21-23	04/07/2009 23:24:30	
22	A1248 10 PPB	040748B	GC23B-21-24	04/07/2009 23:57:05	
23	A1248 20 PPB	040748C	GC23B-21-25	04/08/2009 00:29:41	
24	A1248 50 PPB	040748D	GC23B-21-26	04/08/2009 01:02:16	
25	A1248 100 PPB	040748E	GC23B-21-27	04/08/2009 01:34:53	
26	A1254 5 PPB	040754A	GC23B-21-28	04/08/2009 02:07:27	6.50 26.13
27	A1254 10 PPB	040754B	GC23B-21-29	04/08/2009 02:40:01	6.50 26.12
28	A1254 20 PPB	040754C	GC23B-21-30	04/08/2009 03:12:35	6.50 26.13
29	A1254 50 PPB	040754D	GC23B-21-31	04/08/2009 03:45:10	6.51 26.14
30	A1254 100 PPB	040754E	GC23B-21-32	04/08/2009 04:17:45	6.51 26.14
31	A1260 5 PPB	040760A	GC23B-21-33	04/08/2009 04:50:20	
32	A1260 10 PPB	040760B	GC23B-21-34	04/08/2009 05:22:55	
33	A1260 20 PPB	040760C	GC23B-21-35	04/08/2009 05:55:30	
34	A1260 50 PPB	040760D	GC23B-21-36	04/08/2009 06:28:06	
35	A1260 100 PPB	040760E	GC23B-21-37	04/08/2009 07:00:40	
36	A1016 50 PPB	CS160407A	GC23B-21-39	04/08/2009 08:05:48	6.50 26.13
37	A1221 50 PPB	CS210407A	GC23B-21-40	04/08/2009 08:38:22	6.51 26.13
38	A1232 50 PPB	CS320407A	GC23B-21-41	04/08/2009 09:10:58	6.51 26.13

**8-D-1**  
**PCB ANALYTICAL SEQUENCE**

Laboratory Name: Northeast Analytical, Inc.

SDG No: 09060293

ELAP ID No: 11078

Instrument ID: GC23B

Init. Calib. Date(s): 4/7/2009,4/8/2009

GC Column (1): J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>6.50</u>			DCBP RT: <u>26.13</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT #	DCBP RT #
39 A1242 50 PPB	CS420407A	GC23B-21-42	04/08/2009 09:43:33	6.50	26.12
40 A1248 50 PPB	CS480407A	GC23B-21-43	04/08/2009 10:16:08	6.50	26.12
41 A1254 50 PPB	CS540407A	GC23B-21-44	04/08/2009 10:48:43	6.51	26.14
42 A1260 50 PPB	CS600407A	GC23B-21-45	04/08/2009 11:21:18	6.51	26.13

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Northeast Analytical, Inc.

SDG No: 09060293

ELAP ID No: 11078

Instrument ID: GC23B

Init. Calib. Date(s): 4/7/2009,4/8/2009

GC Column (1): J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
			TCMX RT: <u>6.49</u>	DCBP RT: <u>26.02</u>	
#	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # DCBP RT #
01	A1016 50 PPB	CS160615B	GC23B-89-3	06/15/2009 15:08:05	6.49 26.01
02	A1221 50 PPB	CS210615A	GC23B-89-4	06/15/2009 15:40:39	6.49 26.01
03	A1232 50 PPB	CS320615A	GC23B-89-5	06/15/2009 16:13:14	6.49 26.02
04	A1242 50 PPB	CS420615A	GC23B-89-6	06/15/2009 16:45:48	6.49 26.01
05	A1248 50 PPB	CS480615A	GC23B-89-7	06/15/2009 17:18:22	6.49 26.02
06	A1254 50 PPB	CS540615A	GC23B-89-8	06/15/2009 17:50:55	6.50 26.02
07	A1260 50 PPB	CS600615B	GC23B-89-9	06/15/2009 18:23:29	6.50 26.02
08	A1016 50 PPB	CS160624A	GC23B-100-4	06/24/2009 08:25:40	6.50 26.01
09	PBLK-82(METHOD BLANK)	AM08528B	GC23B-100-7	06/24/2009 10:20:32	6.49 26.01
10	LCS-82(LAB CONTROL SPIKE)	AM08528L	GC23B-100-8	06/24/2009 10:53:06	6.49 26.01
11	ZZZZZ	ZZZZZ	GC23B-100-9	06/24/2009 11:25:39	6.49 26.02
12	A1221 50 PPB	CS210624A	GC23B-100-10	06/24/2009 11:58:14	6.49 26.01

# Initial Calibration Data (GC-23B)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Northeast Analytical, Inc.

SDG NO: 09060293

ELAP ID No: 11078

Date(s) Analyzed: 4/7/2009,4/8/2009

Instrument ID: GC23B

GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL <sup>1</sup> RF	MEAN RF	% RSD
Aroclor 1016	GC23B-21-3	040716A	5.00	376.264		
	GC23B-21-4	040716B	10.0	359.708		
	GC23B-21-5	040716C	20.0	354.389		
	GC23B-21-6	040716D	50.0	347.553		
	GC23B-21-7	040716E	100	344.981	356.579	3.5
Aroclor 1221	GC23B-21-8	040721A	5.00	97.043		
	GC23B-21-9	040721B	10.0	95.394		
	GC23B-21-10	040721C	20.0	95.104		
	GC23B-21-11	040721D	50.0	89.030		
	GC23B-21-12	040721E	100	88.264	92.967	4.3
Aroclor 1232	GC23B-21-13	040732A	5.00	190.431		
	GC23B-21-14	040732B	10.0	182.854		
	GC23B-21-15	040732C	20.0	179.878		
	GC23B-21-16	040732D	50.0	162.389		
	GC23B-21-17	040732E	100	160.404	175.191	7.5
Aroclor 1242	GC23B-21-18	040742A	5.00	337.413		
	GC23B-21-19	040742B	10.0	322.246		
	GC23B-21-20	040742C	20.0	309.728		
	GC23B-21-21	040742D	50.0	290.331		
	GC23B-21-22	040742E	100	280.431	308.030	7.5
Aroclor 1248	GC23B-21-23	040748A	5.00	335.015		
	GC23B-21-24	040748B	10.0	318.538		
	GC23B-21-25	040748C	20.0	302.343		
	GC23B-21-26	040748D	50.0	290.132		
	GC23B-21-27	040748E	100	283.713	305.948	6.9
Aroclor 1254	GC23B-21-28	040754A	5.00	428.294		
	GC23B-21-29	040754B	10.0	474.750		
	GC23B-21-30	040754C	20.0	497.164		
	GC23B-21-31	040754D	50.0	467.467		
	GC23B-21-32	040754E	100	482.809	470.097	5.5
Aroclor 1260	GC23B-21-33	040760A	5.00	750.591		
	GC23B-21-34	040760B	10.0	671.487		
	GC23B-21-35	040760C	20.0	673.020		
	GC23B-21-36	040760D	50.0	637.222		
	GC23B-21-37	040760E	100	628.984	672.261	7.1
TCMX	GC23B-21-28	040754A	1.00	1998.202		
	GC23B-21-29	040754B	2.50	1945.046		
	GC23B-21-30	040754C	4.00	1857.315		
	GC23B-21-31	040754D	5.00	1849.458		
	GC23B-21-32	040754E	8.00	1811.188	1892.240	4.1

FORM VI-CLP-PCB(NEA)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Northeast Analytical, Inc.

SDG NO: 09060293

ELAP ID No: 11078

Date(s) Analyzed: 4/7/2009,4/8/2009

Instrument ID: GC23B

GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL <sup>1</sup> RF	MEAN RF	% RSD
DCBP	GC23B-21-28	040754A	10.0	2161.869		
	GC23B-21-29	040754B	25.0	2101.957		
	GC23B-21-30	040754C	40.0	2005.366		
	GC23B-21-31	040754D	50.0	1970.811		
	GC23B-21-32	040754E	80.0	1930.822	2034.170	4.7

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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System Name:	Instrument_23_Ch02	Date Calibrated:	4/8/2009 12:10:36 PM EDT
Sample Set Name:	GC23B_LLCC_040709	Method Report:	CCSum by RF 02
Sample Set Date:	4/7/2009 11:25:37 AM EDT	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709		

Calibration Component  
Summary Table

Component Summary For RF

	Sample Name	A1016
1	040716A	376.2636
2	040716B	359.7081
3	040716C	354.3889
4	040716D	347.5533
5	040716E	344.9807
Mean		356.579
Std. Dev.		12.430
% RSD		3.49



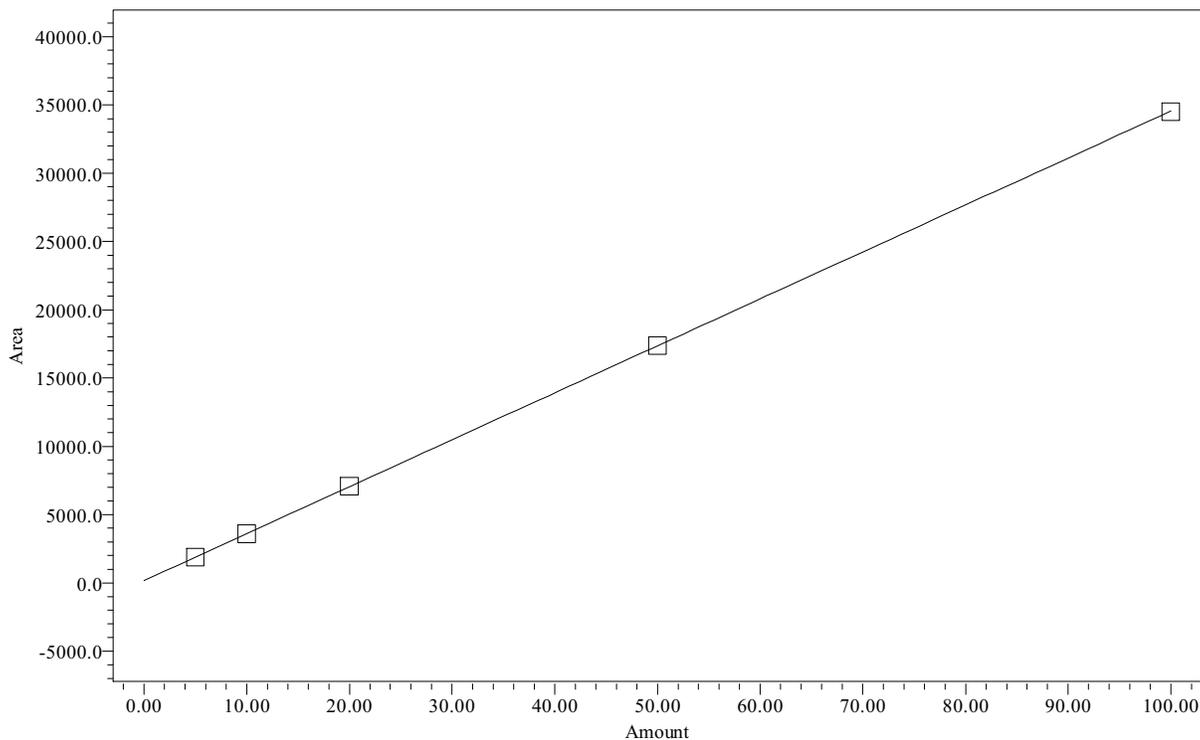
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Phone: (518) 346-4592 Fax: (518) 381-6055

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Name:	A1016	Coefficient constant A:	168.343259
System Name:	Instrument_23_Ch02	Coefficient first Order B:	343.784863
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999995
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.999990

Calibration Curve



Point Table  
Peak: A1016

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1016	5.00	1881	5.0	-0.346	No	No
2	A1016	10.00	3597	10.0	-0.265	No	No
3	A1016	20.00	7088	20.1	0.636	No	No
4	A1016	50.00	17378	50.1	0.117	No	No
5	A1016	100.00	34498	99.9	-0.142	No	No



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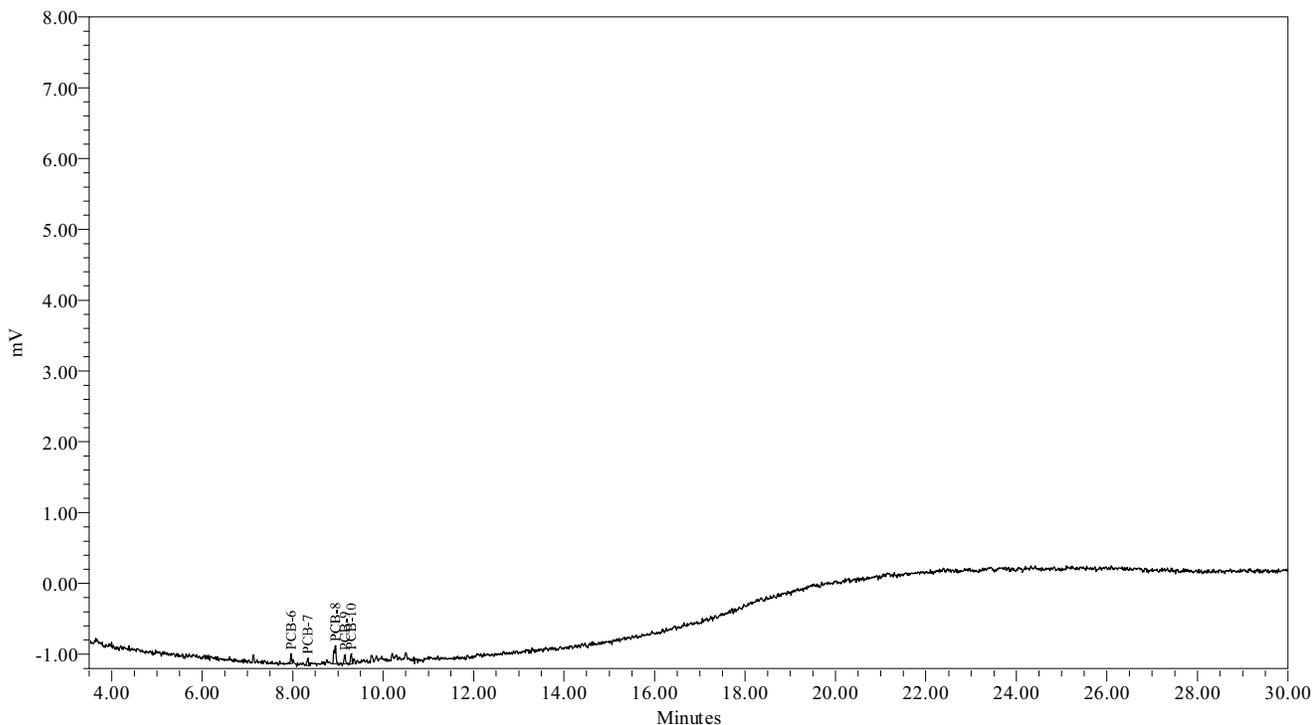
Sample Name:	040716A	Sample Amount:	1
Sample ID:	A1016 5 PPB	Dilution:	1
Date Acquired:	4/7/2009 12:32:36 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 12:00:34 PM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/11/2009
Run Time:	30.0 Minutes	Current Time:	7:08:38 AM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23B-21-3

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.964	bv	223
2 PCB-7	8.334	bv	258
3 PCB-8	8.947	bb	827
4 PCB-9	9.157	bb	290
5 PCB-10	9.293	vb	283

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	1881	5.000
2 A1232	1658	
3 A1232-8/9	541	
4 A1242	1881	





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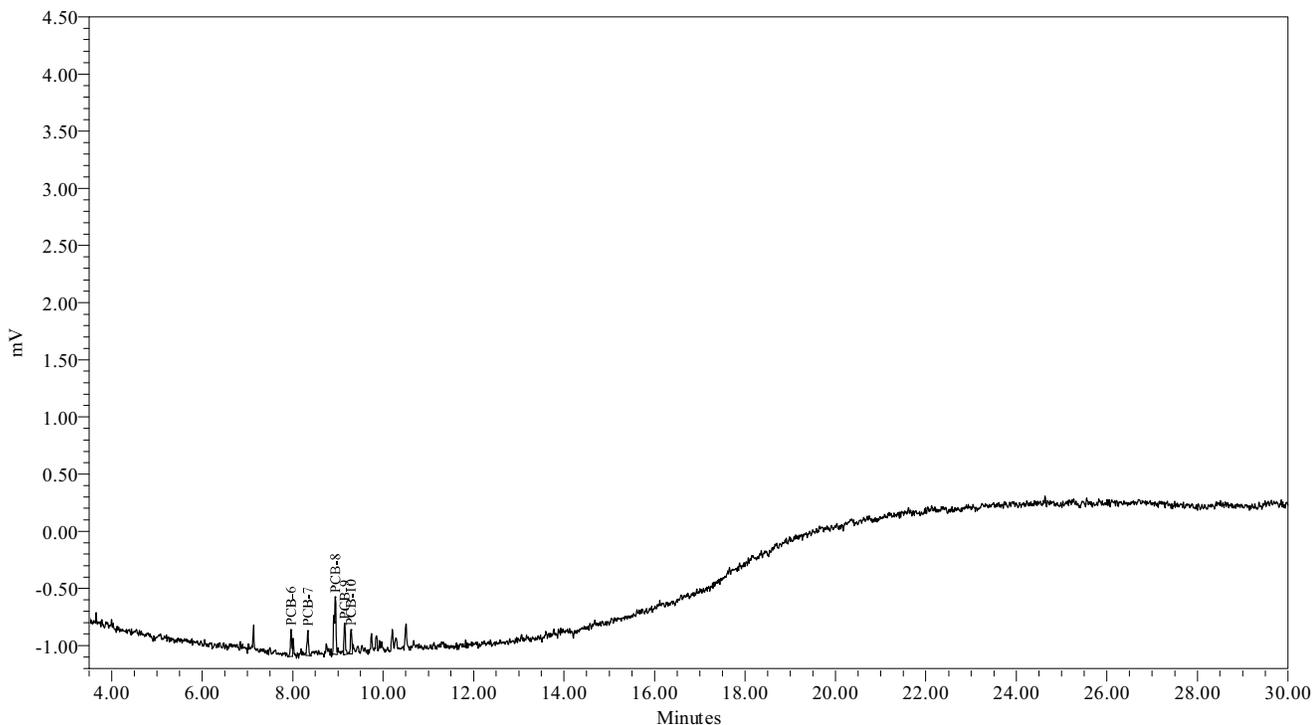
Sample Name:	040716B	Sample Amount:	1
Sample ID:	A1016 10 PPB	Dilution:	1
Date Acquired:	4/7/2009 1:05:12 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 12:01:16 PM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	8:35:59 AM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23B-21-4

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.964	bV	486
2 PCB-7	8.337	vb	533
3 PCB-8	8.946	bV	1543
4 PCB-9	9.154	bv	610
5 PCB-10	9.292	VV	426

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	3597	10.000
2 A1232	3111	
3 A1232-8/9	958	
4 A1242	3597	





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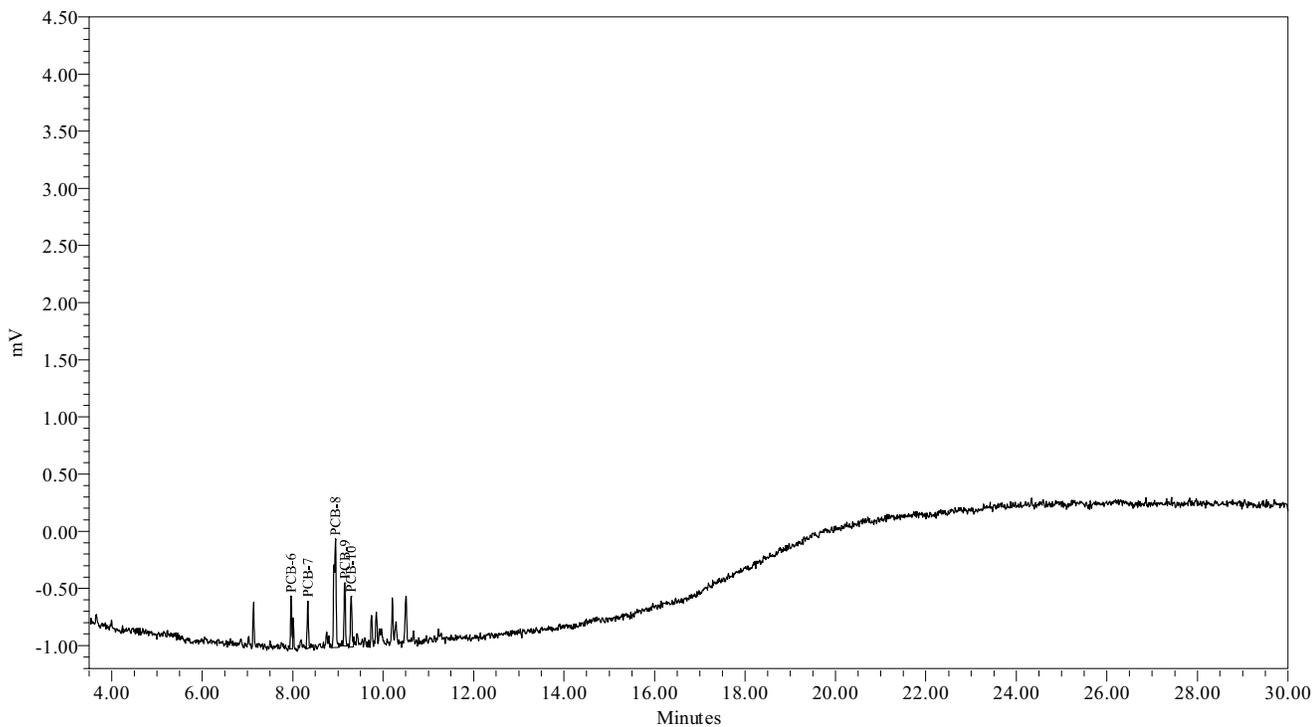
Sample Name:	040716C	Sample Amount:	1
Sample ID:	A1016 20 PPB	Dilution:	1
Date Acquired:	4/7/2009 1:37:47 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 12:01:43 PM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	8:36:06 AM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23B-21-5

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.966	bV	814
2 PCB-7	8.337	bb	892
3 PCB-8	8.949	bb	3213
4 PCB-9	9.155	bb	1214
5 PCB-10	9.293	bV	955

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	7088	20.000
2 A1232	6274	
3 A1232-8/9	1847	
4 A1242	7088	





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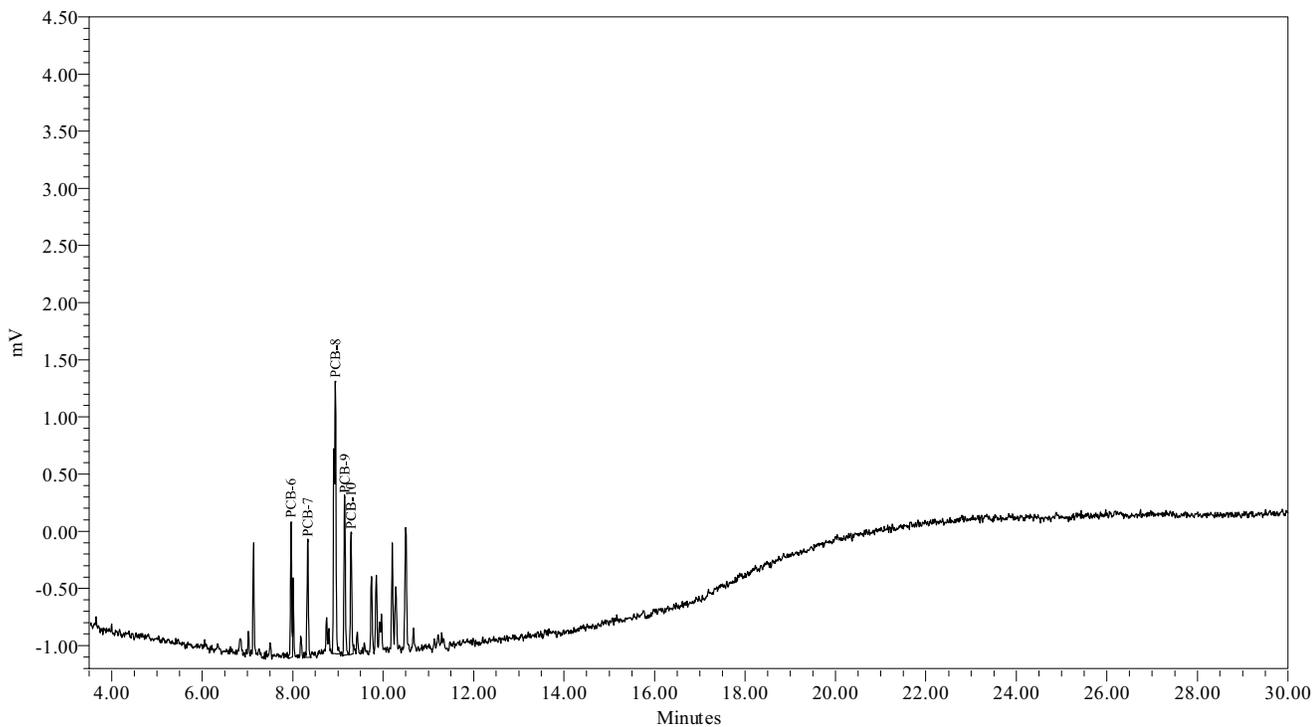
Sample Name: 040716D Sample Amount: 1  
Sample ID: A1016 50 PPB Dilution: 1  
Date Acquired: 4/7/2009 2:10:23 PM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 12:02:22 PM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 8:36:13 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-6

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.963	bV	2102
2 PCB-7	8.335	Vb	2353
3 PCB-8	8.946	bb	7727
4 PCB-9	9.152	bb	3067
5 PCB-10	9.291	bv	2129

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	17378	50.000
2 A1232	15275	
3 A1232-8/9	4481	
4 A1242	17378	





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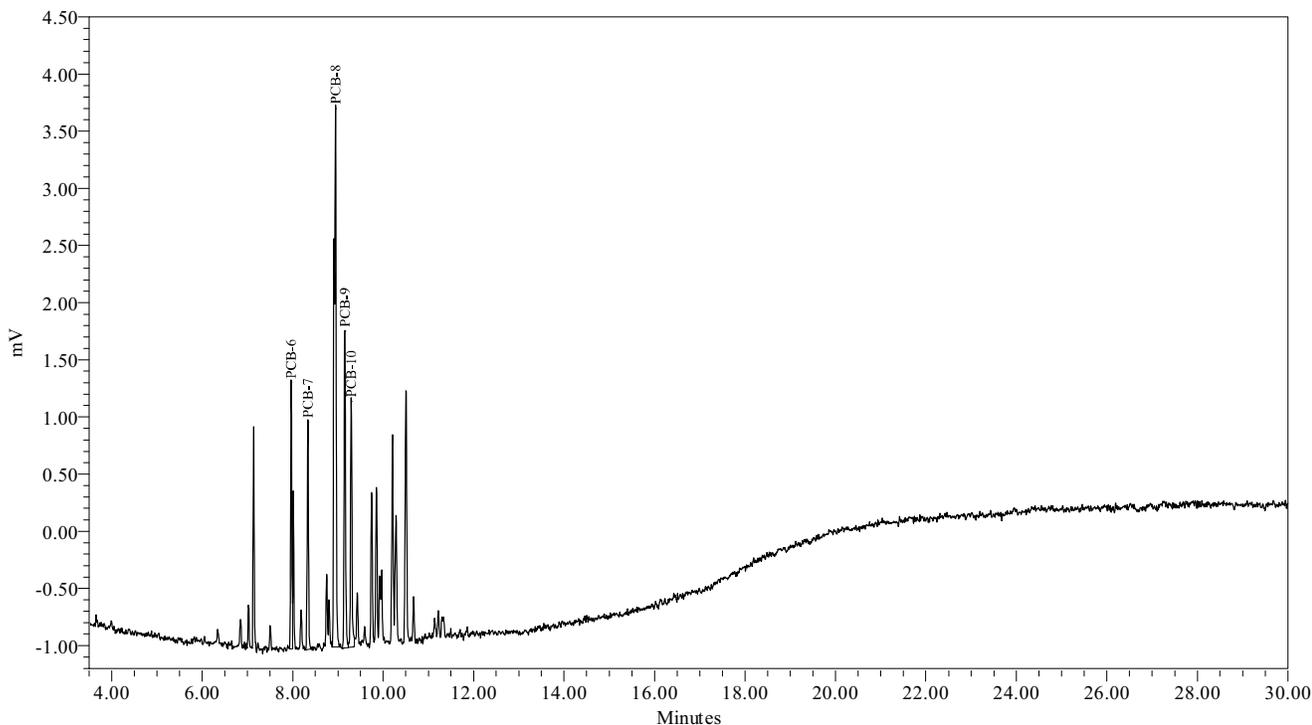
Sample Name: 040716E Sample Amount: 1  
Sample ID: A1016 100 PPB Dilution: 1  
Date Acquired: 4/7/2009 2:42:59 PM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 12:03:06 PM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 8:36:17 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-7

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.967	bV	4038
2 PCB-7	8.338	bb	4459
3 PCB-8	8.950	bb	15334
4 PCB-9	9.155	bv	6099
5 PCB-10	9.295	vv	4569

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	34498	100.000
2 A1232	30460	
3 A1232-8/9	9028	
4 A1242	34498	





Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
Phone: (518) 346-4592 Fax: (518) 381-6055  
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System Name: Instrument\_23\_Ch02 Date Calibrated: 4/8/2009 12:10:36 PM EDT  
Sample Set Name: GC23B\_LLCC\_040709 Method Report: CCSum by RF 02  
Sample Set Date: 4/7/2009 11:25:37 AM EDT User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709

Calibration Component Summary Table  
Component Summary For RF

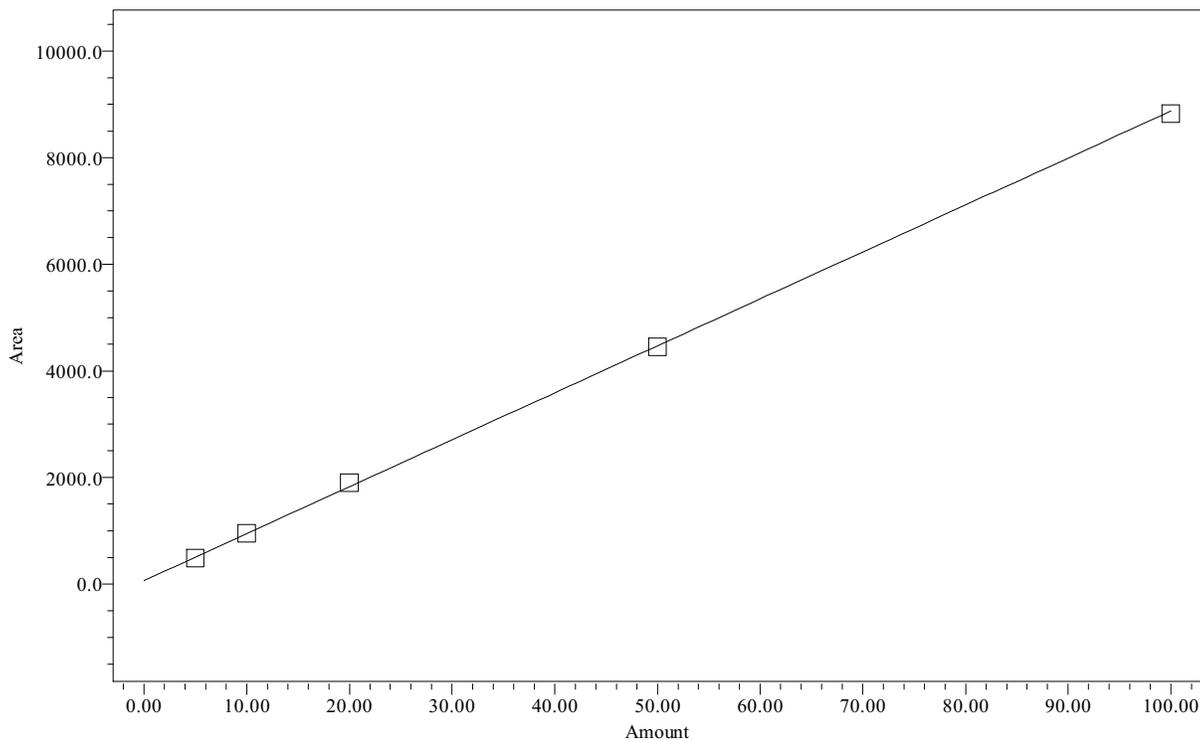
	Sample Name	A1221-2	A1221-4	A1221-5	A1221
1	040721A	90.6321	74.1877	51.3085	97.0427
2	040721B	86.6958	80.7298	55.0841	95.3944
3	040721C	85.6535	81.4599	51.7564	95.1038
4	040721D	83.6235	76.9728	46.2262	89.0302
5	040721E	82.8673	75.8458	44.9019	88.2637
Mean		85.894	77.839	49.855	92.967
Std. Dev.		3.060	3.143	4.206	4.021
% RSD		3.56	4.04	8.44	4.33



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Name:	A1221	Coefficient constant A:	63.992948
System Name:	Instrument_23_Ch02	Coefficient first Order B:	88.103499
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999784
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999567

Calibration Curve



Point Table  
Peak: A1221

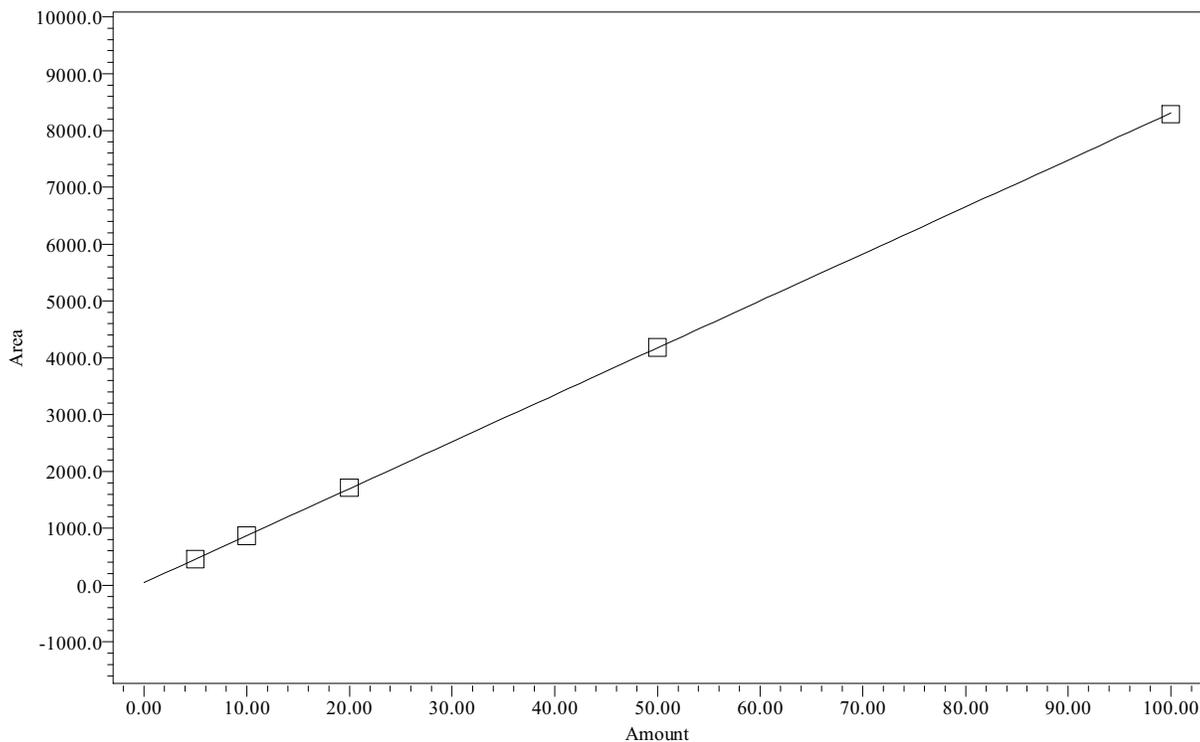
	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1221	5.00	485	4.8	-4.380	No	No
2	A1221	10.00	954	10.1	1.012	No	No
3	A1221	20.00	1902	20.9	4.314	No	No
4	A1221	50.00	4452	49.8	-0.401	No	No
5	A1221	100.00	8826	99.5	-0.545	No	No



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Name:	A1221-2	Coefficient constant A:	42.977630
System Name:	Instrument_23_Ch02	Coefficient first Order B:	82.628153
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999986
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999973

Calibration Curve



Point Table  
 Peak: A1221-2

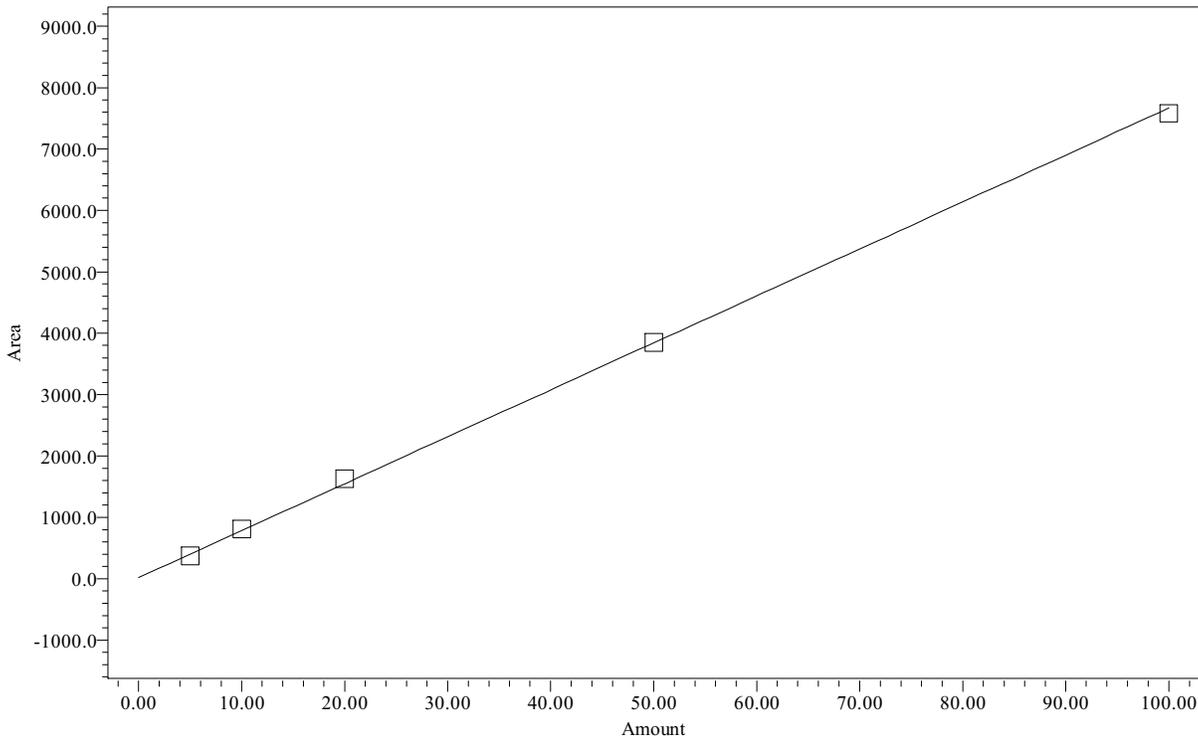
	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1221-2	5.00	453	5.0	-0.716	No	No
2	A1221-2	10.00	867	10.0	-0.279	No	No
3	A1221-2	20.00	1713	20.2	1.061	No	No
4	A1221-2	50.00	4181	50.1	0.164	No	No
5	A1221-2	100.00	8287	99.8	-0.231	No	No



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Name:	A1221-4	Coefficient constant A:	17.615843
System Name:	Instrument_23_Ch02	Coefficient first Order B:	76.500384
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999546
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.999093

Calibration Curve



Point Table  
 Peak: A1221-4

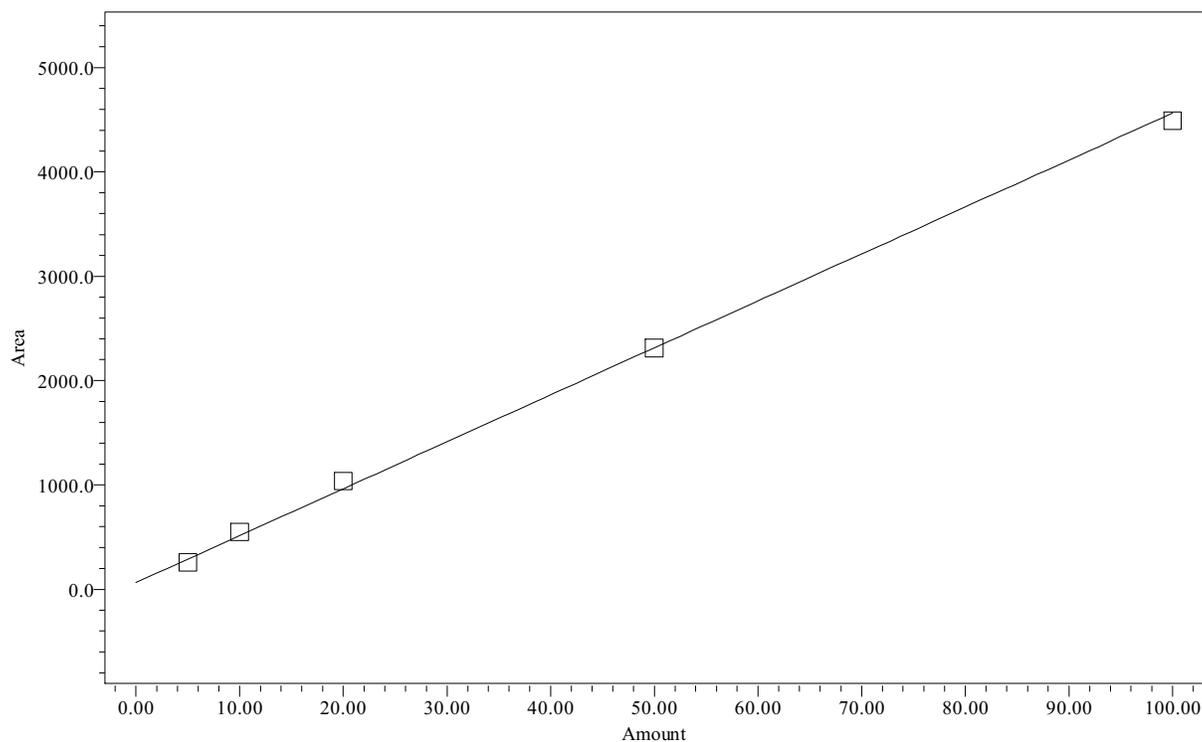
	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1221-4	5.00	371	4.6	-7.629	No	No
2	A1221-4	10.00	807	10.3	3.226	No	No
3	A1221-4	20.00	1629	21.1	5.332	No	No
4	A1221-4	50.00	3849	50.1	0.157	No	No
5	A1221-4	100.00	7585	98.9	-1.086	No	No



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Name:	A1221-5	Coefficient constant A:	63.933931
System Name:	Instrument_23_Ch02	Coefficient first Order B:	44.996430
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.998648
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.997298

Calibration Curve



Point Table  
Peak: A1221-5

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1221-5	5.00	257	4.3	-14.389	No	No
2	A1221-5	10.00	551	10.8	8.210	No	No
3	A1221-5	20.00	1035	21.6	7.919	No	No
4	A1221-5	50.00	2311	49.9	-0.109	No	No
5	A1221-5	100.00	4490	98.4	-1.631	No	No



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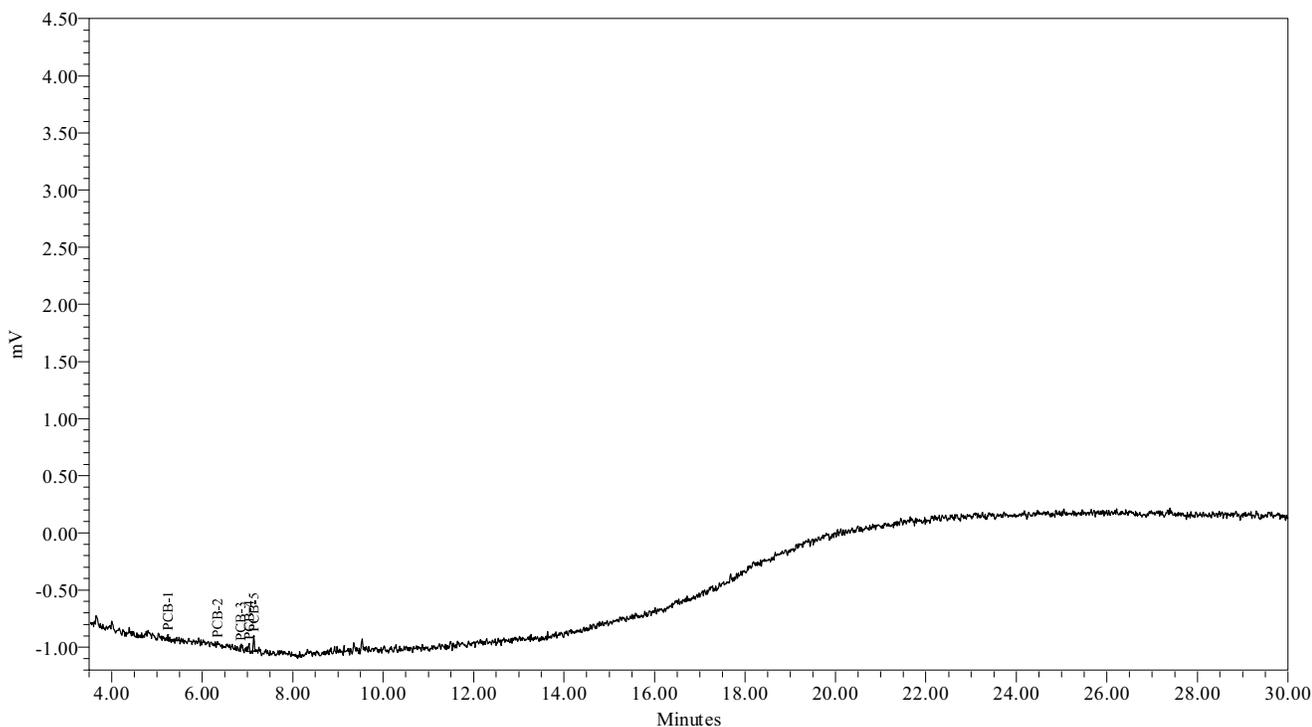
Sample Name: 040721A Sample Amount: 1  
Sample ID: A1221 5 PPB Dilution: 1  
Date Acquired: 4/7/2009 3:15:34 PM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 12:10:35 PM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 8:37:03 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-8

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-1	5.247	vb	52
2 PCB-2	6.341	bb	32
3 PCB-3	6.853	vv	58
4 PCB-4	7.038	vb	114
5 PCB-5	7.142	bb	229

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1221	485	5.000
2 A1221-2	453	5.000
3 A1221-4	371	5.000
4 A1221-5	257	5.000
5 A1232	229	
6 A1232-8/9	229	





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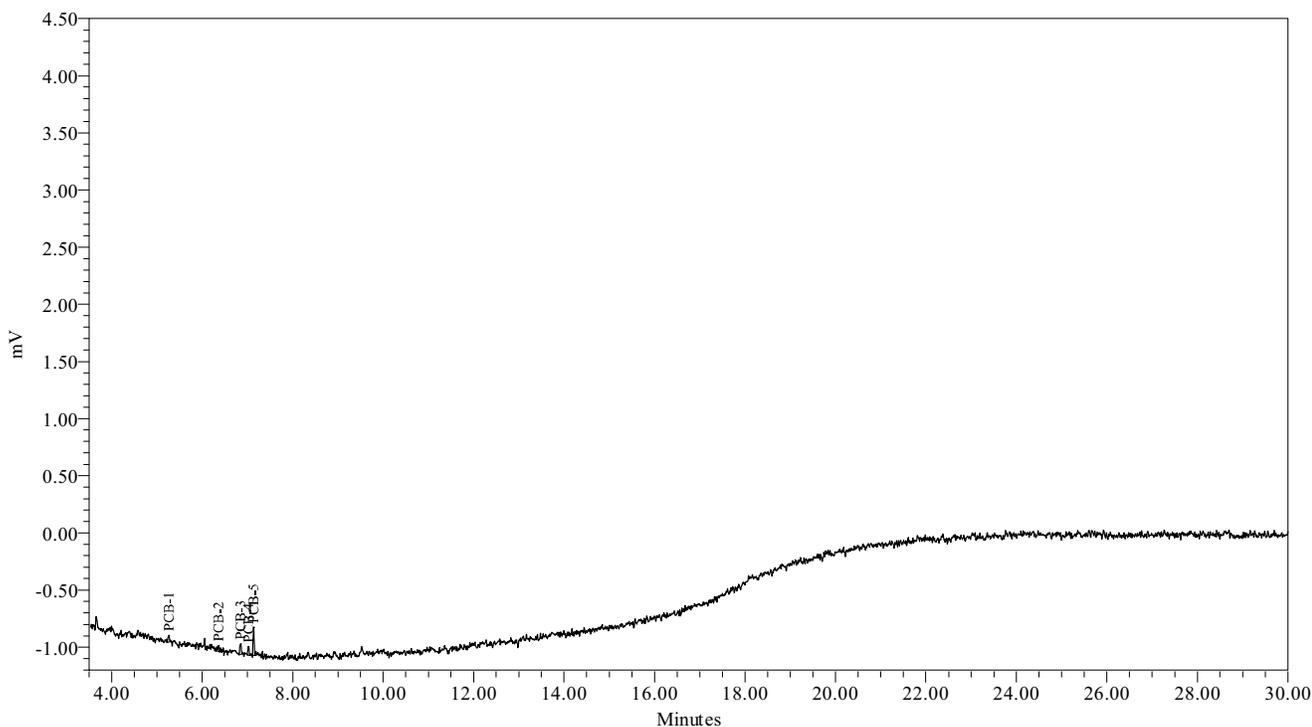
Sample Name: 040721B Sample Amount: 1  
Sample ID: A1221 10 PPB Dilution: 1  
Date Acquired: 4/7/2009 3:48:11 PM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:57:53 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 8:37:12 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-9

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-1	5.265	bv	125
2 PCB-2	6.361	vb	87
3 PCB-3	6.849	bb	192
4 PCB-4	7.027	bb	147
5 PCB-5	7.139	bb	403

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1221	954	10.000
2 A1221-2	867	10.000
3 A1221-4	807	10.000
4 A1221-5	551	10.000
5 A1232	403	
6 A1232-8/9	403	





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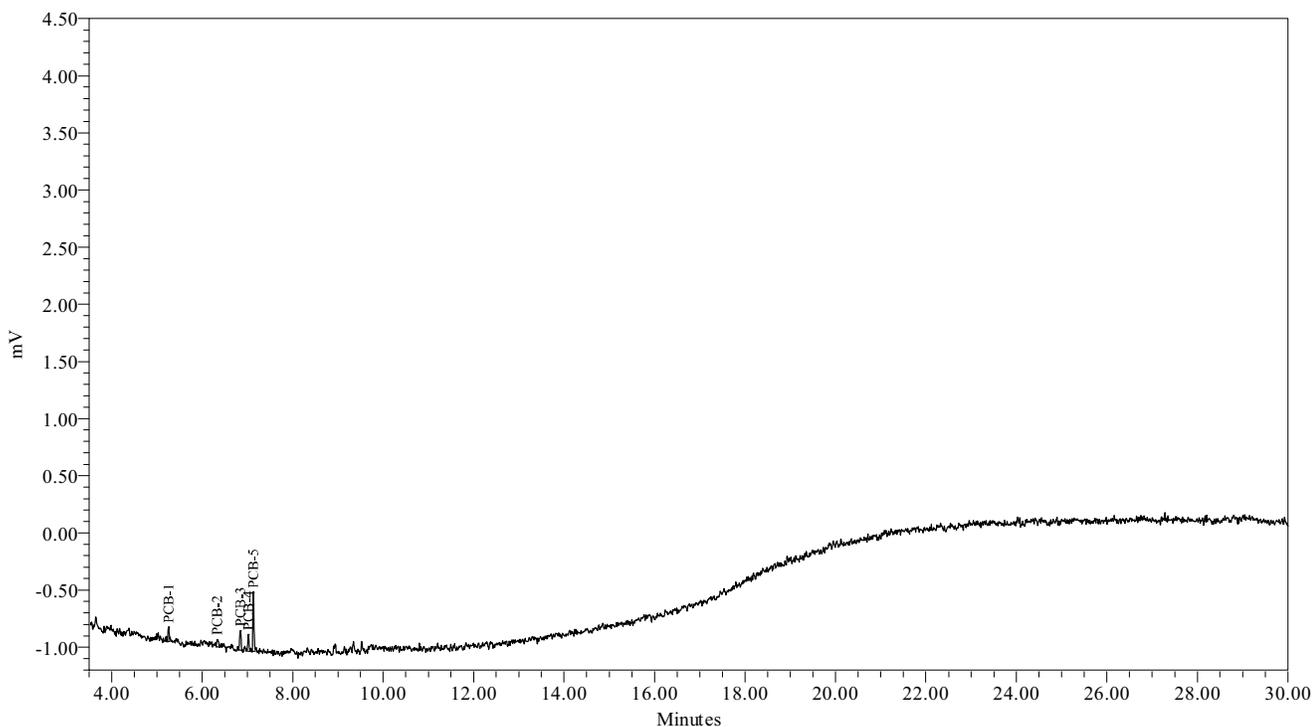
Sample Name: 040721C Sample Amount: 1  
Sample ID: A1221 20 PPB Dilution: 1  
Date Acquired: 4/7/2009 4:20:46 PM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:50:34 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 8:37:15 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-10

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-1	5.261	vV	217
2 PCB-2	6.330	bv	189
3 PCB-3	6.846	bb	356
4 PCB-4	7.022	vb	273
5 PCB-5	7.134	bV	867

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1221	1902	20.000
2 A1221-2	1713	20.000
3 A1221-4	1629	20.000
4 A1221-5	1035	20.000
5 A1232	867	
6 A1232-8/9	867	





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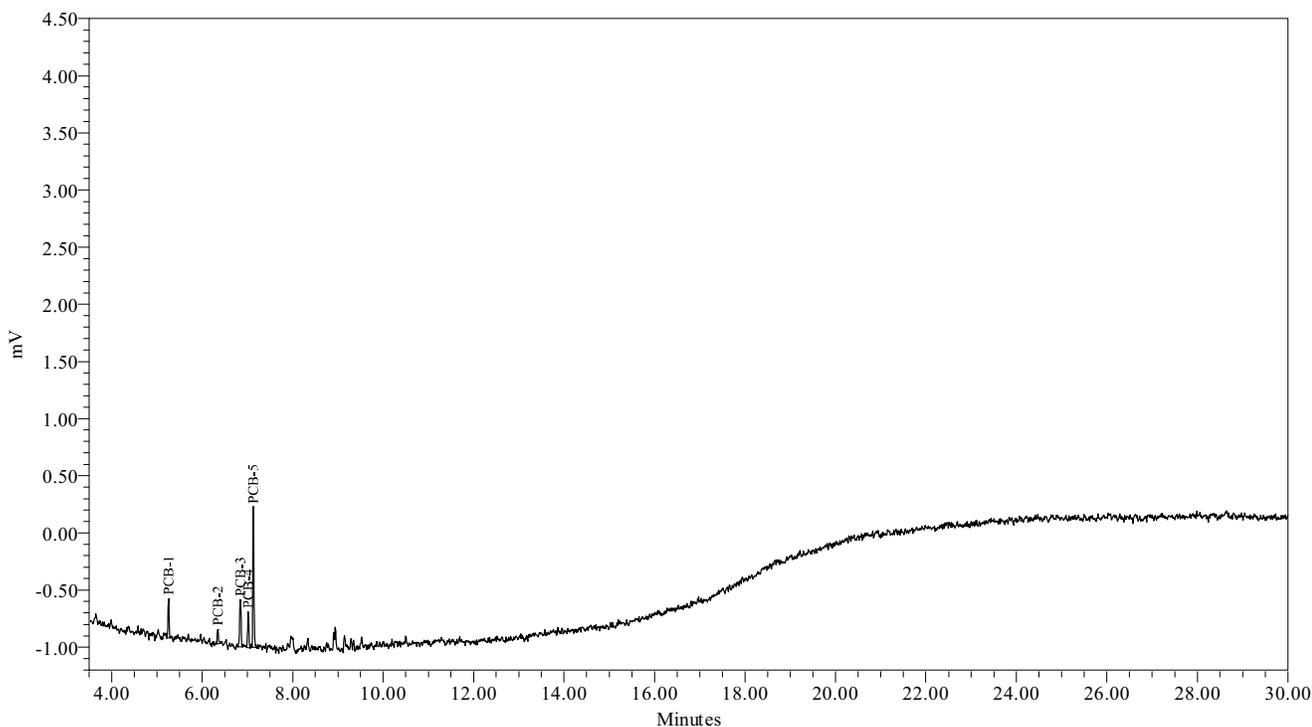
Sample Name: 040721D Sample Amount: 1  
Sample ID: A1221 50 PPB Dilution: 1  
Date Acquired: 4/7/2009 4:53:21 PM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:44:46 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 8:37:24 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-11

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-1	5.260	bb	515
2 PCB-2	6.350	bb	270
3 PCB-3	6.845	bv	923
4 PCB-4	7.021	Vb	603
5 PCB-5	7.133	bb	2140

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1221	4452	50.000
2 A1221-2	4181	50.000
3 A1221-4	3849	50.000
4 A1221-5	2311	50.000
5 A1232	2140	
6 A1232-8/9	2140	





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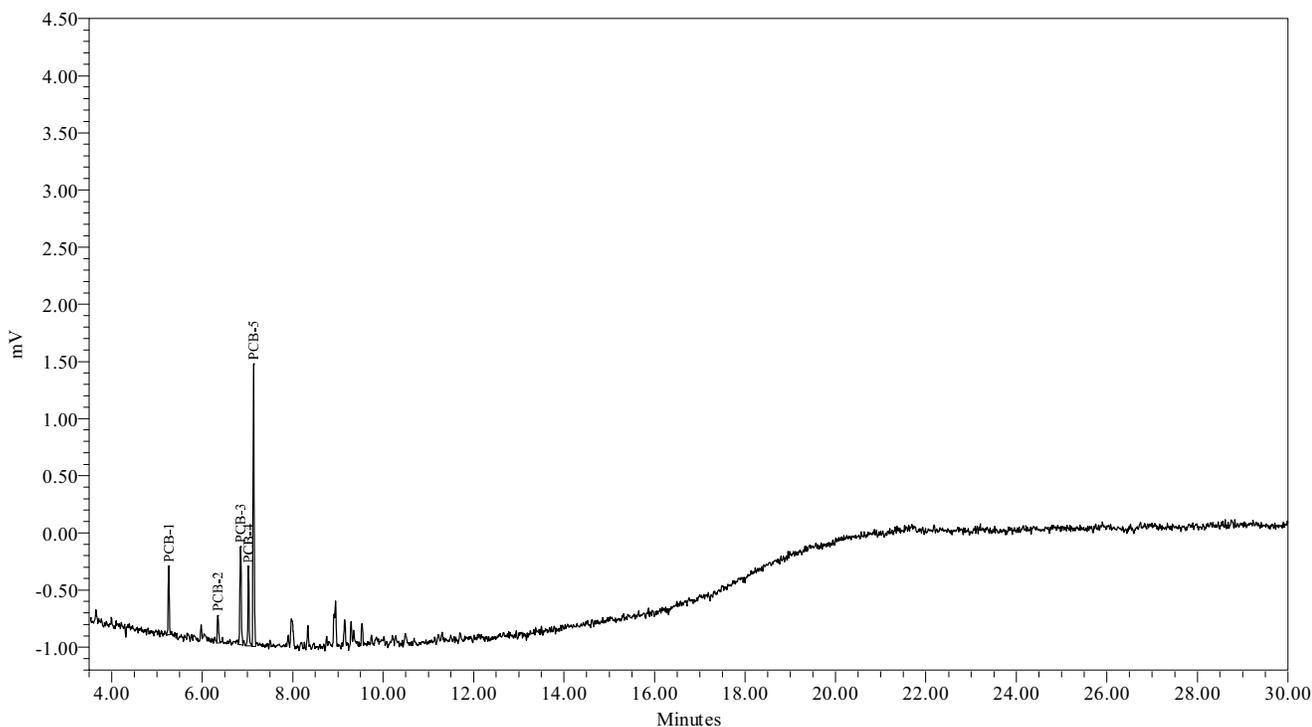
Sample Name: 040721E Sample Amount: 1  
Sample ID: A1221 100 PPB Dilution: 1  
Date Acquired: 4/7/2009 5:25:55 PM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:55:56 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 8:37:31 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-12

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-1	5.263	bb	920
2 PCB-2	6.351	vb	540
3 PCB-3	6.849	bv	1788
4 PCB-4	7.026	vb	1242
5 PCB-5	7.137	bv	4336

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1221	8826	100.000
2 A1221-2	8287	100.000
3 A1221-4	7585	100.000
4 A1221-5	4490	100.000
5 A1232	4336	
6 A1232-8/9	4336	





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System Name: Instrument\_23\_Ch02 Date Calibrated: 4/8/2009 12:10:36 PM EDT  
Sample Set Name: GC23B\_LLCC\_040709 Method Report: CCSum by RF 02  
Sample Set Date: 4/7/2009 11:25:37 AM EDT User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709

Calibration Component Summary Table  
Component Summary For RF

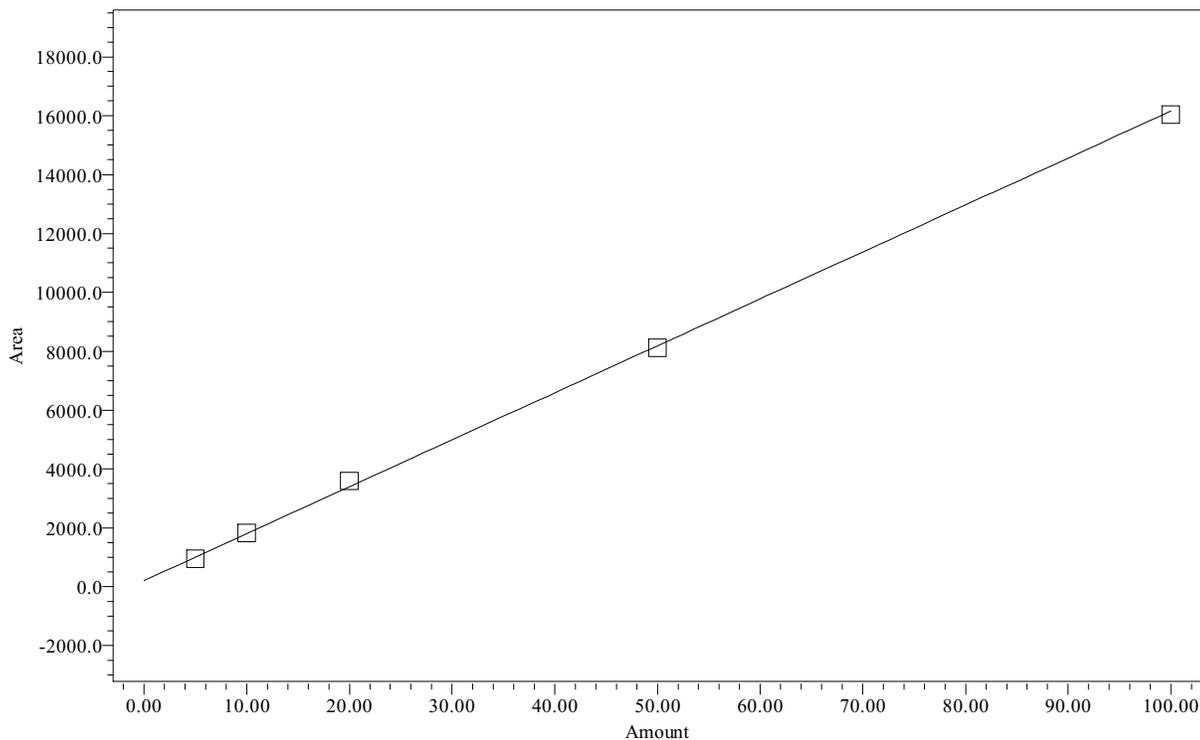
	Sample Name	A1232-8/9	A1232
1	040732A	93.0768	190.4311
2	040732B	83.7455	182.8544
3	040732C	82.3529	179.8781
4	040732D	74.3206	162.3888
5	040732E	73.1560	160.4042
Mean		81.330	175.191
Std. Dev.		8.075	13.186
% RSD		9.93	7.53



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Name:	A1232	Coefficient constant A:	206.652707
System Name:	Instrument_23_Ch02	Coefficient first Order B:	159.485711
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999531
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.999063

Calibration Curve



Point Table  
 Peak: A1232

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1232	5.00	952	4.7	-6.512	No	No
2	A1232	10.00	1829	10.2	1.695	No	No
3	A1232	20.00	3598	21.3	6.308	No	No
4	A1232	50.00	8119	49.6	-0.771	No	No
5	A1232	100.00	16040	99.3	-0.720	No	No



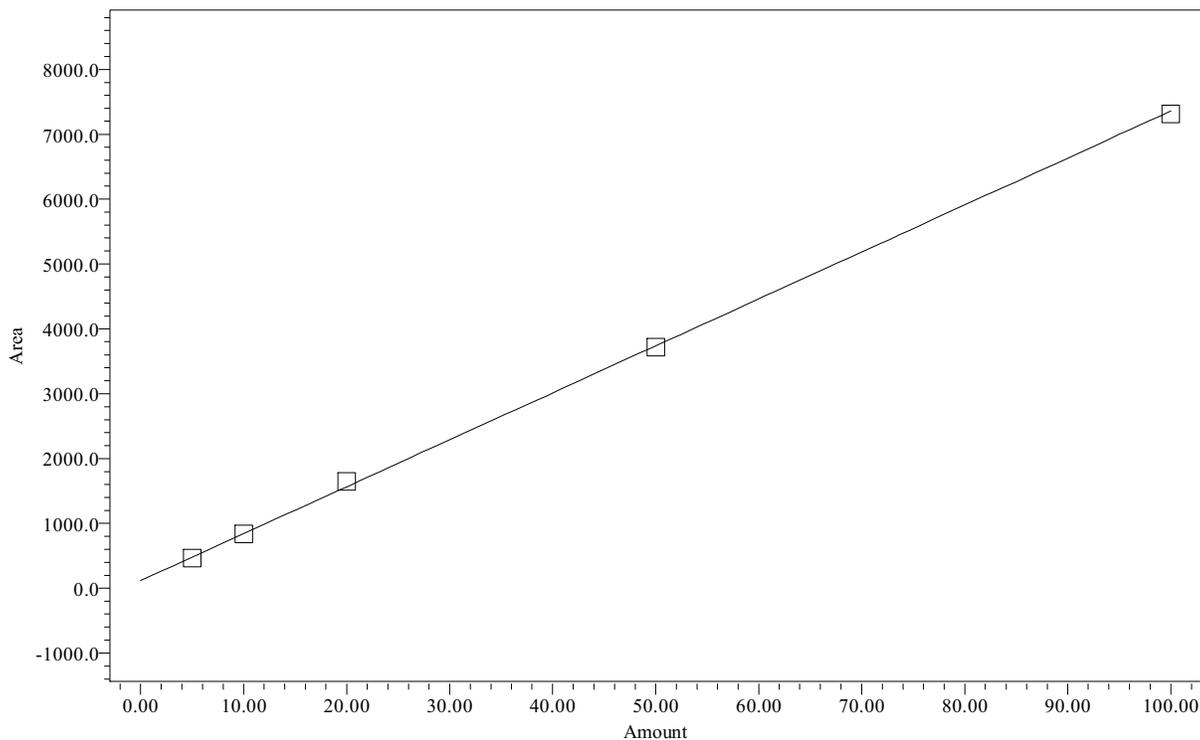
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Name:	A1232-8/9	Coefficient constant A:	117.504423
System Name:	Instrument_23_Ch02	Coefficient first Order B:	72.399994
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999679
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.999359

Calibration Curve



Point Table  
Peak: A1232-8/9

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1232-8/9	5.00	465	4.8	-3.901	No	No
2	A1232-8/9	10.00	837	9.9	-0.559	No	No
3	A1232-8/9	20.00	1647	21.1	5.632	No	No
4	A1232-8/9	50.00	3716	49.7	-0.593	No	No
5	A1232-8/9	100.00	7316	99.4	-0.579	No	No



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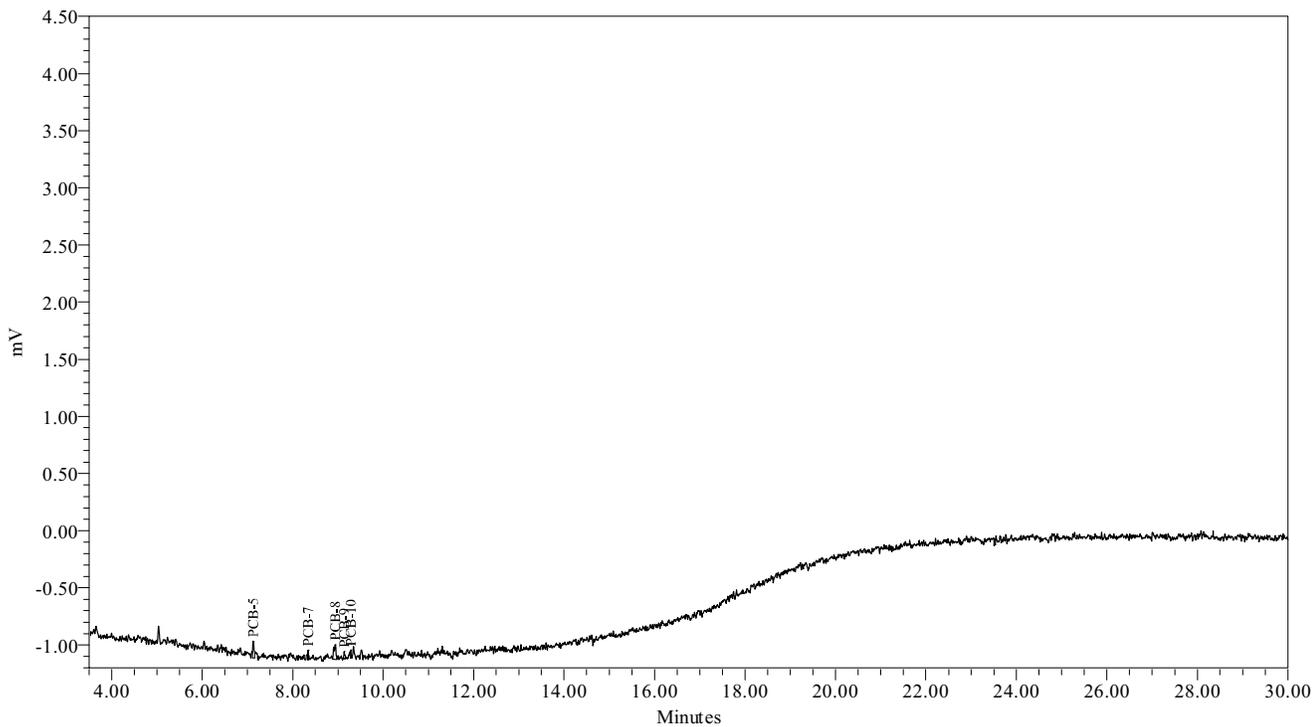
Sample Name:	040732A	Sample Amount:	1
Sample ID:	A1232 5 PPB	Dilution:	1
Date Acquired:	4/7/2009 5:58:32 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 11:37:58 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	8:38:46 AM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23B-21-13

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-5	7.131	vv	285
2 PCB-7	8.343	vv	103
3 PCB-8	8.945	bv	396
4 PCB-9	9.143	bv	91
5 PCB-10	9.286	vb	78

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	667	
2 A1221	285	
3 A1221-2	285	
4 A1221-4	285	
5 A1232	952	5.000
6 A1232-8/9	465	5.000
7 A1242	667	





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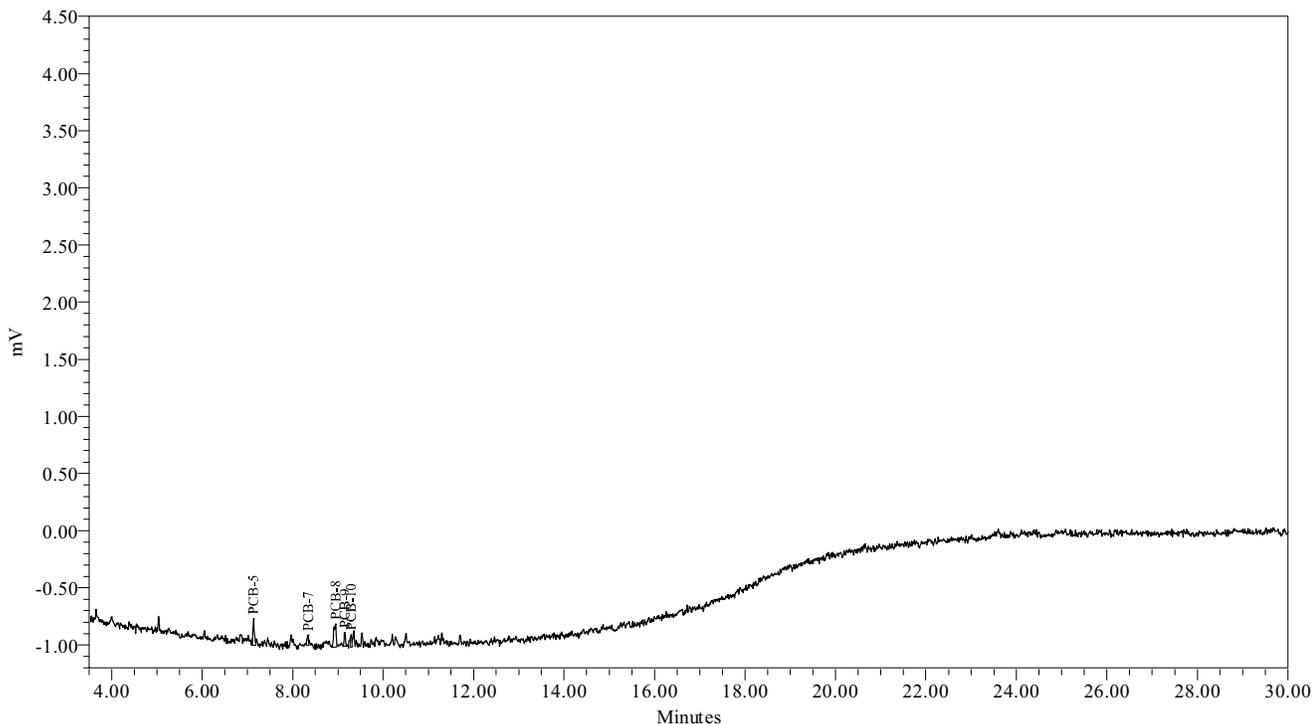
Sample Name:	040732B	Sample Amount:	1
Sample ID:	A1232 10 PPB	Dilution:	1
Date Acquired:	4/7/2009 6:31:08 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 11:35:52 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	8:39:00 AM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23B-21-14

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-5	7.136	vv	473
2 PCB-7	8.343	vv	204
3 PCB-8	8.951	bv	734
4 PCB-9	9.153	bb	257
5 PCB-10	9.293	vv	161

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	1356	
2 A1221	473	
3 A1221-2	473	
4 A1221-4	473	
5 A1232	1829	10.000
6 A1232-8/9	837	10.000
7 A1242	1356	





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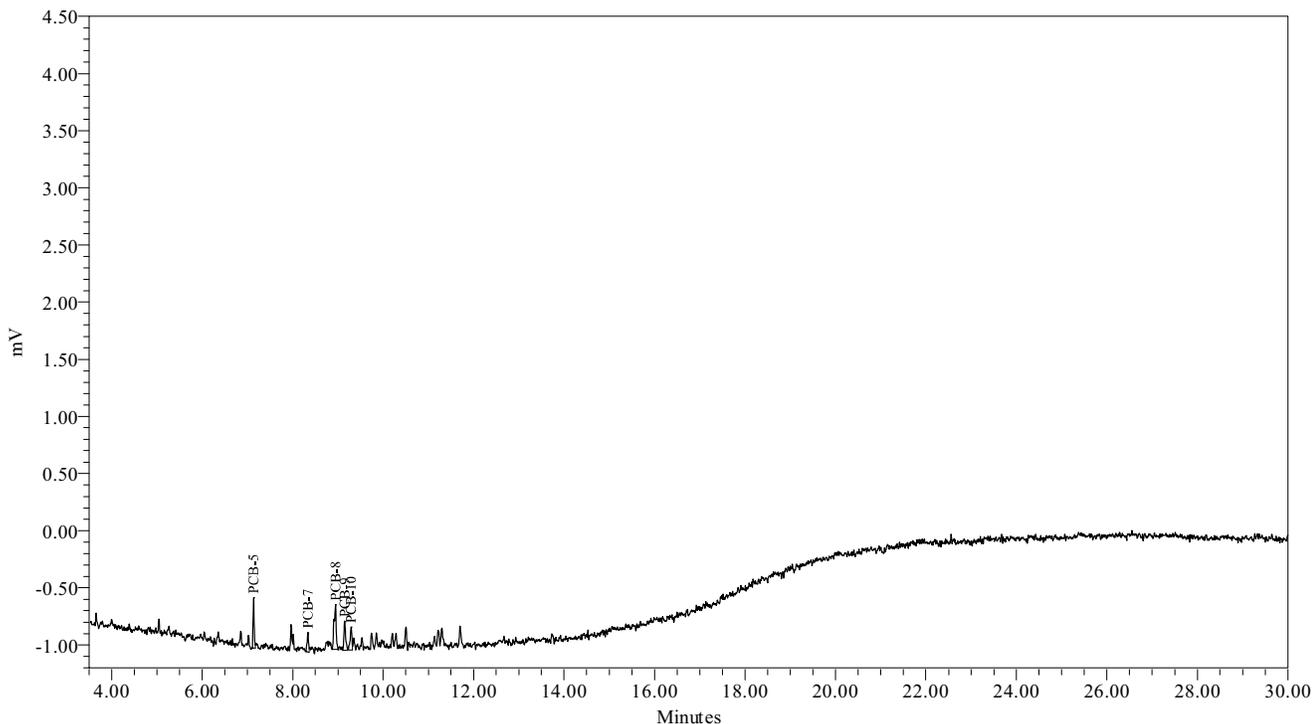
Sample Name: 040732C Sample Amount: 1  
Sample ID: A1232 20 PPB Dilution: 1  
Date Acquired: 4/7/2009 7:03:44 PM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:38:20 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 8:39:02 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-15

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-5	7.137	bv	742
2 PCB-7	8.338	bv	407
3 PCB-8	8.950	bb	1276
4 PCB-9	9.153	bV	674
5 PCB-10	9.293	vV	498

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	2855	
2 A1221	742	
3 A1221-2	742	
4 A1221-4	742	
5 A1232	3598	20.000
6 A1232-8/9	1647	20.000
7 A1242	2855	





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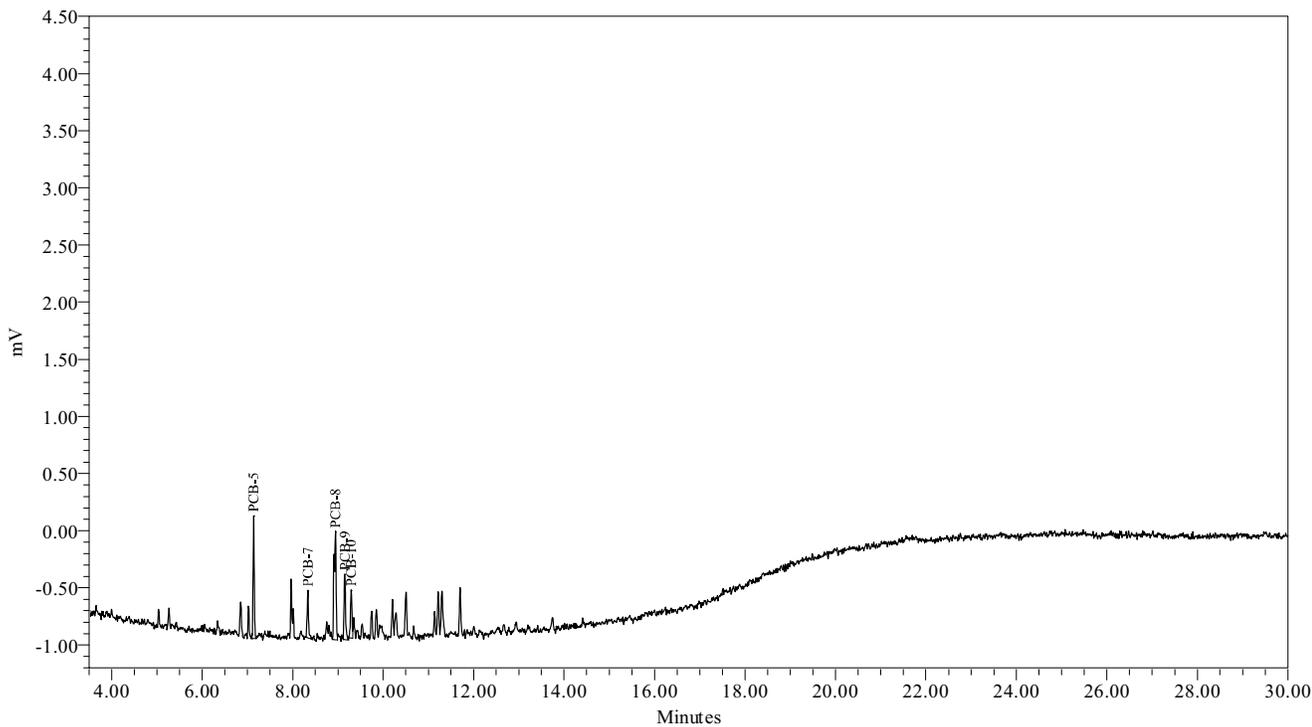
Sample Name:	040732D	Sample Amount:	1
Sample ID:	A1232 50 PPB	Dilution:	1
Date Acquired:	4/7/2009 7:36:21 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 11:32:59 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	8:39:10 AM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23B-21-16

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-5	7.139	Vb	1914
2 PCB-7	8.337	bb	950
3 PCB-8	8.949	bV	3085
4 PCB-9	9.154	bb	1318
5 PCB-10	9.294	bV	852

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	6205	
2 A1221	1914	
3 A1221-2	1914	
4 A1221-4	1914	
5 A1232	8119	50.000
6 A1232-8/9	3716	50.000
7 A1242	6205	





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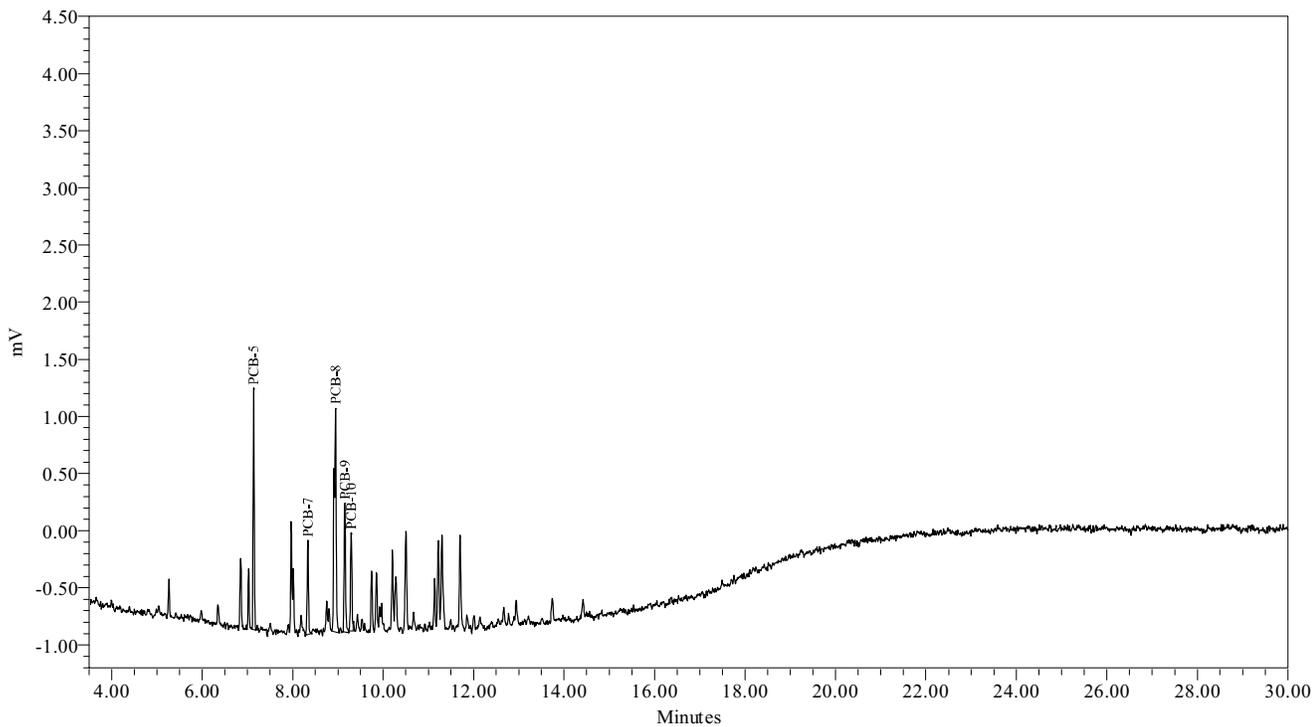
Sample Name:	040732E	Sample Amount:	1
Sample ID:	A1232 100 PPB	Dilution:	1
Date Acquired:	4/7/2009 8:08:57 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 11:33:44 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	8:39:12 AM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23B-21-17

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-5	7.139	bb	3671
2 PCB-7	8.338	bb	1877
3 PCB-8	8.950	bb	6270
4 PCB-9	9.156	bb	2455
5 PCB-10	9.294	bV	1767

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	12369	
2 A1221	3671	
3 A1221-2	3671	
4 A1221-4	3671	
5 A1232	16040	100.000
6 A1232-8/9	7316	100.000
7 A1242	12369	





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System Name:	Instrument_23_Ch02	Date Calibrated:	4/8/2009 12:10:36 PM EDT
Sample Set Name:	GC23B_LLCC_040709	Method Report:	CCSum by RF 02
Sample Set Date:	4/7/2009 11:25:37 AM EDT	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709		

Calibration Component  
Summary Table

Component Summary For RF

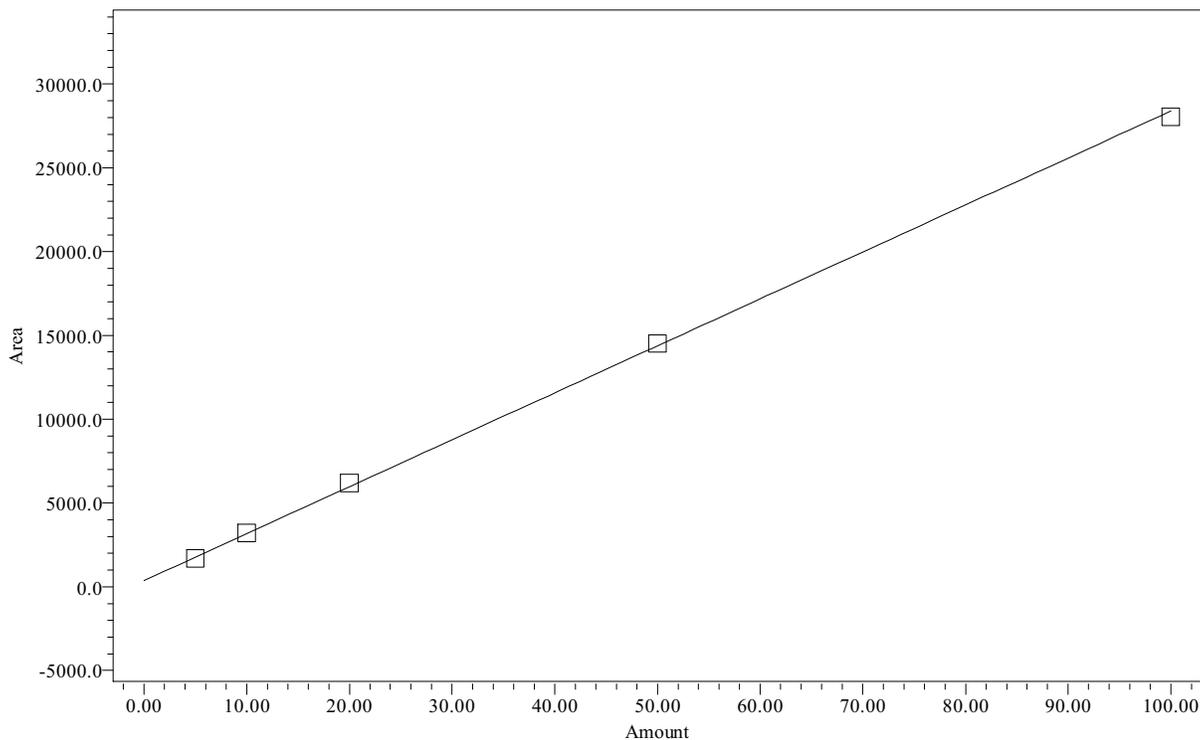
	Sample Name	A1242
1	040742A	337.4133
2	040742B	322.2456
3	040742C	309.7282
4	040742D	290.3306
5	040742E	280.4310
Mean		308.030
Std. Dev.		23.148
% RSD		7.51



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Name:	A1242	Coefficient constant A:	366.643211
System Name:	Instrument_23_Ch02	Coefficient first Order B:	280.164866
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999697
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999395

Calibration Curve



Point Table  
Peak: A1242

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1242	5.00	1687	4.7	-5.740	No	No
2	A1242	10.00	3222	10.2	1.933	No	No
3	A1242	20.00	6195	20.8	4.009	No	No
4	A1242	50.00	14517	50.5	1.011	No	No
5	A1242	100.00	28043	98.8	-1.214	No	No



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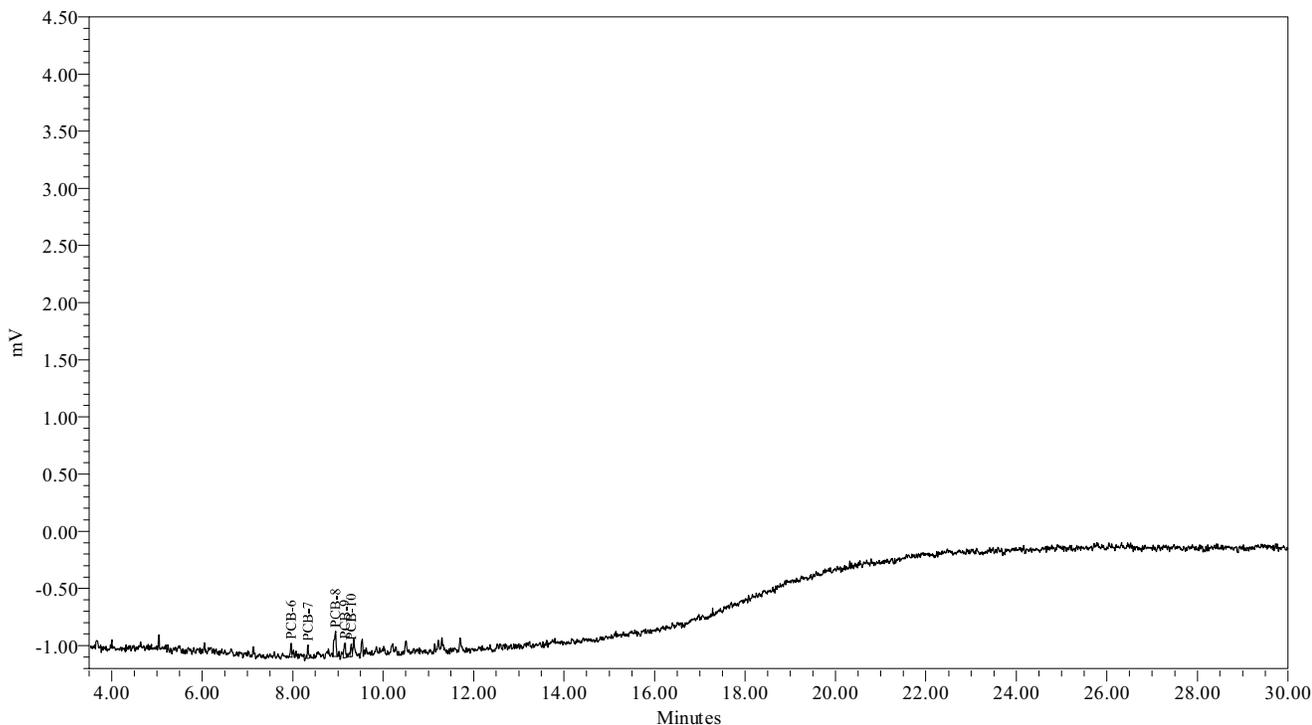
Sample Name: 040742A Sample Amount: 1  
Sample ID: A1242 5 PPB Dilution: 1  
Date Acquired: 4/7/2009 8:41:35 PM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:24:01 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 8:58:21 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-18

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.965	bv	229
2 PCB-7	8.336	vv	235
3 PCB-8	8.949	bb	685
4 PCB-9	9.156	vv	352
5 PCB-10	9.293	vv	187

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	1687	
2 A1232	1458	
3 A1232-8/9	421	
4 A1242	1687	5.000





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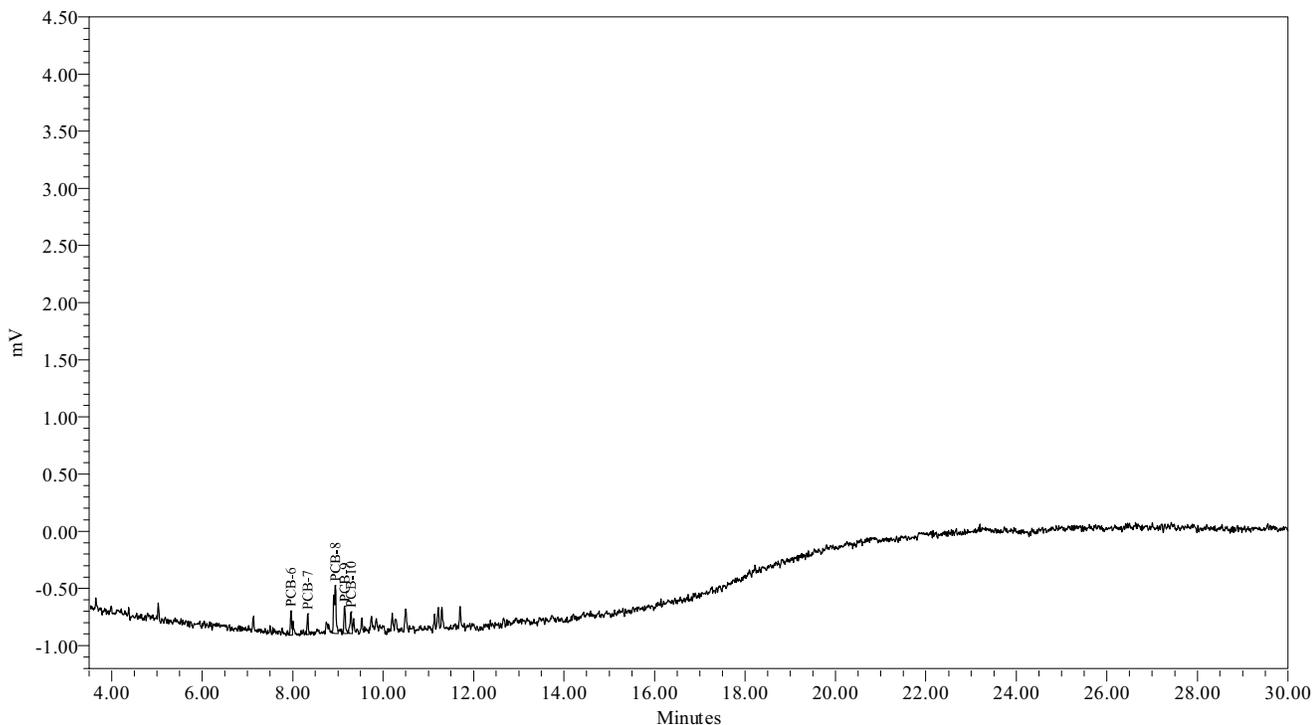
Sample Name:	040742B	Sample Amount:	1
Sample ID:	A1242 10 PPB	Dilution:	1
Date Acquired:	4/7/2009 9:14:10 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 11:24:54 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	8:58:26 AM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23B-21-19

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.963	bV	422
2 PCB-7	8.334	bv	365
3 PCB-8	8.946	bV	1442
4 PCB-9	9.150	vv	559
5 PCB-10	9.291	bV	435

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	3222	
2 A1232	2801	
3 A1232-8/9	799	
4 A1242	3222	10.000





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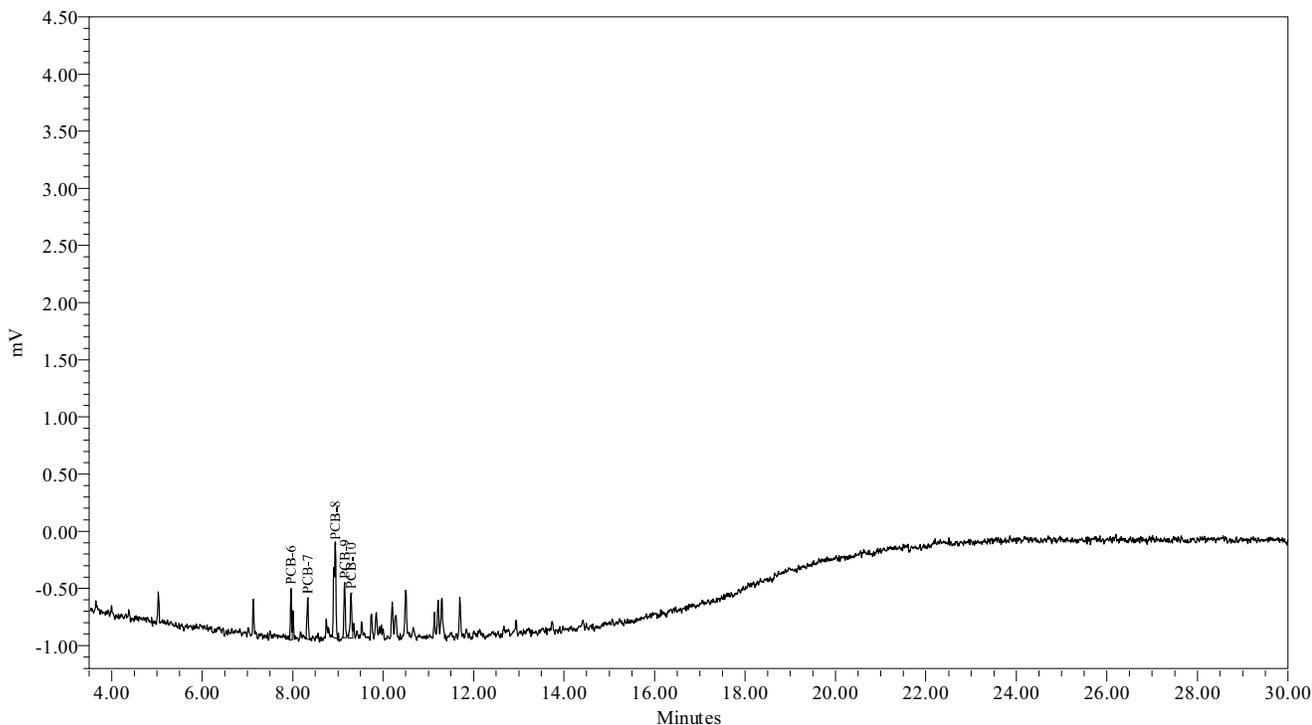
Sample Name:	040742C	Sample Amount:	1
Sample ID:	A1242 20 PPB	Dilution:	1
Date Acquired:	4/7/2009 9:46:44 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 11:25:38 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	8:58:29 AM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23B-21-20

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.962	bV	767
2 PCB-7	8.334	bb	844
3 PCB-8	8.945	bb	2691
4 PCB-9	9.151	bv	1030
5 PCB-10	9.290	vV	864

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	6195	
2 A1232	5428	
3 A1232-8/9	1707	
4 A1242	6195	20.000





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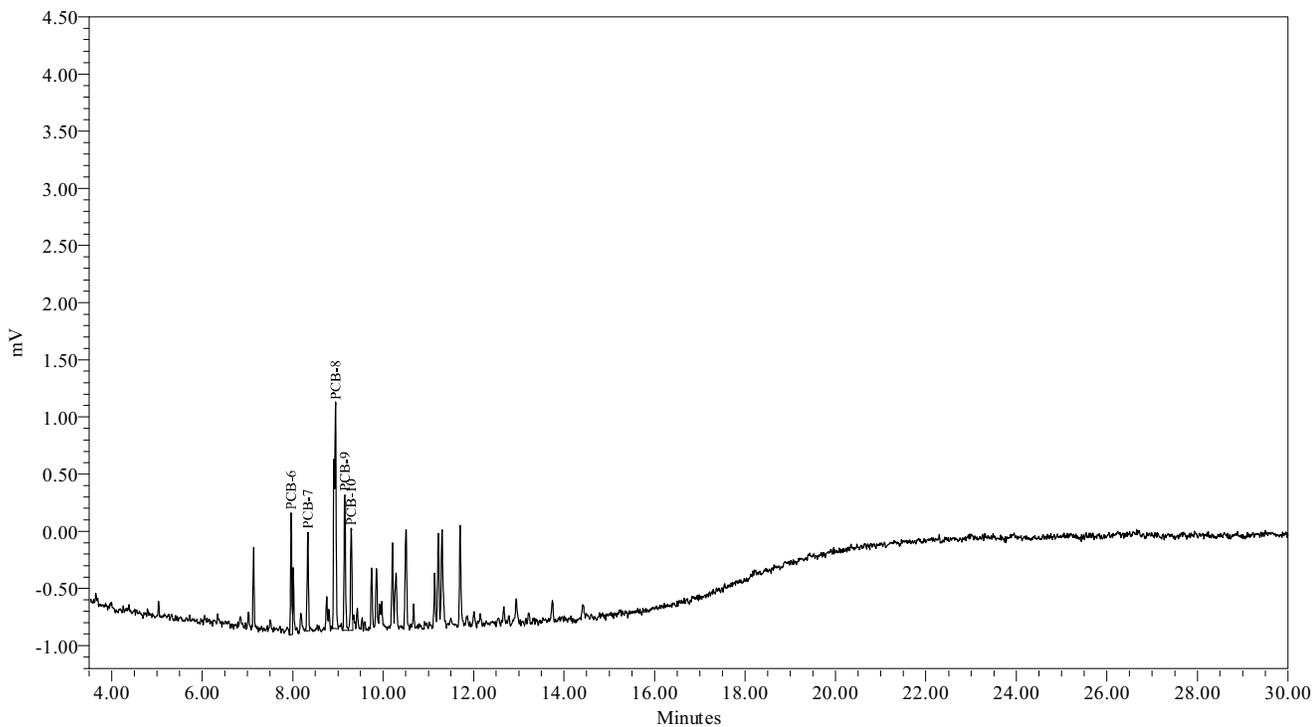
Sample Name: 040742D Sample Amount: 1  
Sample ID: A1242 50 PPB Dilution: 1  
Date Acquired: 4/7/2009 10:19:19 PM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:26:47 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 8:58:37 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-21

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.966	bV	1849
2 PCB-7	8.337	vv	1936
3 PCB-8	8.949	bV	6256
4 PCB-9	9.155	bv	2586
5 PCB-10	9.295	vV	1890

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	14517	
2 A1232	12668	
3 A1232-8/9	3825	
4 A1242	14517	50.000





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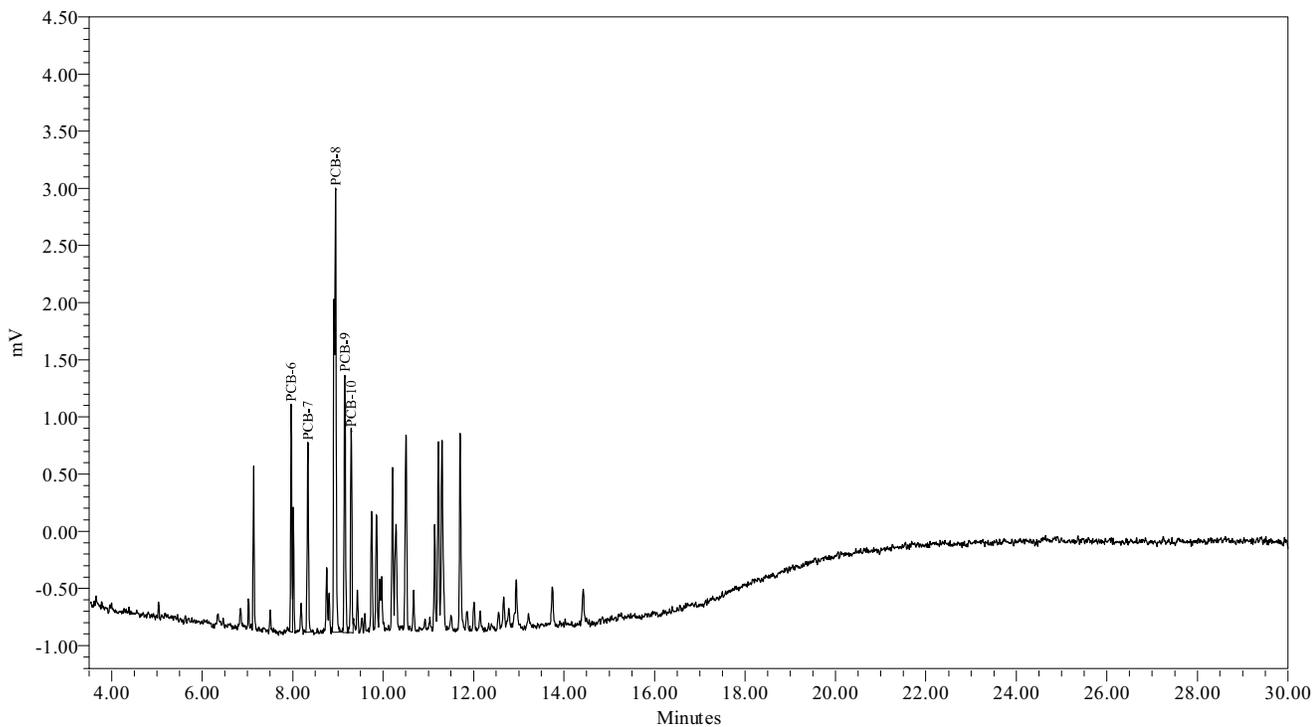
Sample Name:	040742E	Sample Amount:	1
Sample ID:	A1242 100 PPB	Dilution:	1
Date Acquired:	4/7/2009 10:51:55 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 11:27:33 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	8:58:39 AM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23B-21-22

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-6	7.967	bV	3366
2 PCB-7	8.338	bb	3787
3 PCB-8	8.950	VV	12561
4 PCB-9	9.156	VB	4816
5 PCB-10	9.295	VV	3513

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1016	28043	
2 A1232	24677	
3 A1232-8/9	7300	
4 A1242	28043	100.000





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System Name: Instrument\_23\_Ch02  
Sample Set Name: GC23B\_LLCC\_040709  
Sample Set Date: 4/7/2009 11:25:37 AM EDT  
Processing Method: GC23B\_CCLL\_040709

Date Calibrated: 4/8/2009 12:10:36 PM EDT  
Method Report: CCSum by RF 02  
User Name: Amy Jo Arndt (AmyJoA)

Calibration Component Summary Table  
Component Summary For RF

	Sample Name	A1248-11/15	A1248-14/15	A1248
1	040748A	210.2701	156.8821	335.0148
2	040748B	211.0112	155.3785	318.5378
3	040748C	195.6153	137.4191	302.3427
4	040748D	186.1229	133.7505	290.1315
5	040748E	184.5490	133.1230	283.7128
Mean		197.514	143.311	305.948
Std. Dev.		12.712	11.829	20.982
% RSD		6.44	8.25	6.86



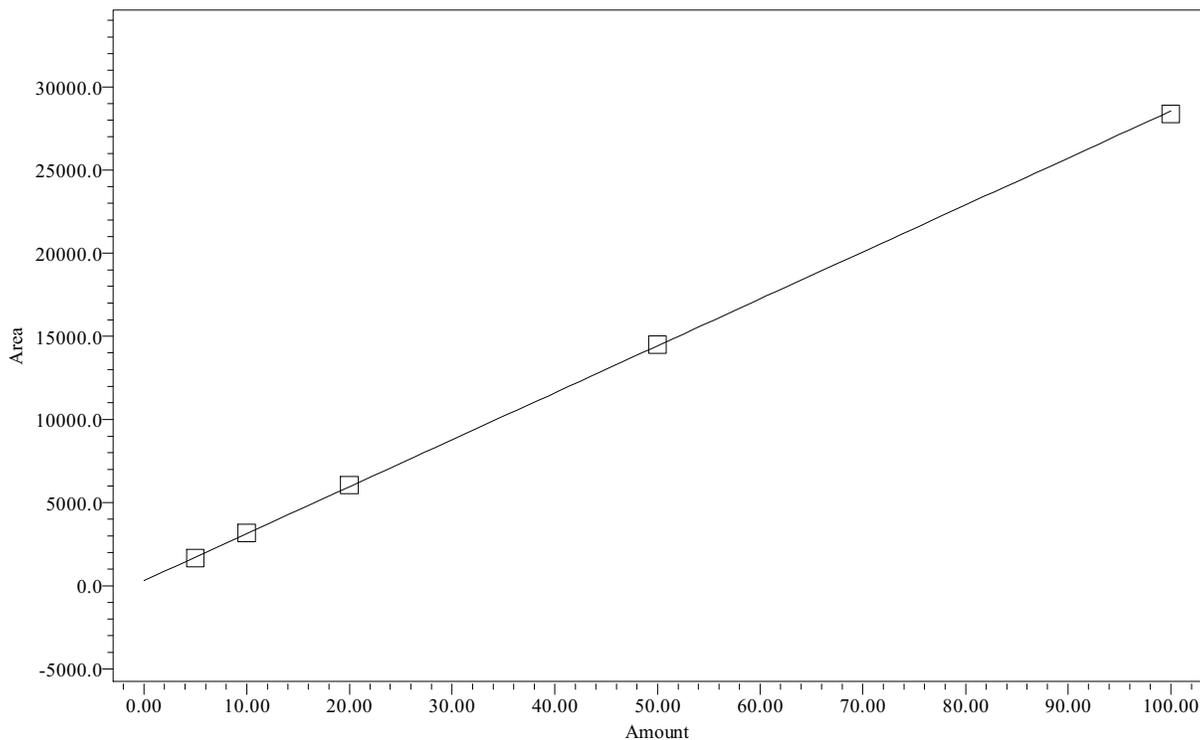
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Name:	A1248	Coefficient constant A:	310.728808
System Name:	Instrument_23_Ch02	Coefficient first Order B:	282.332521
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999919
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.999838

Calibration Curve



Point Table  
Peak: A1248

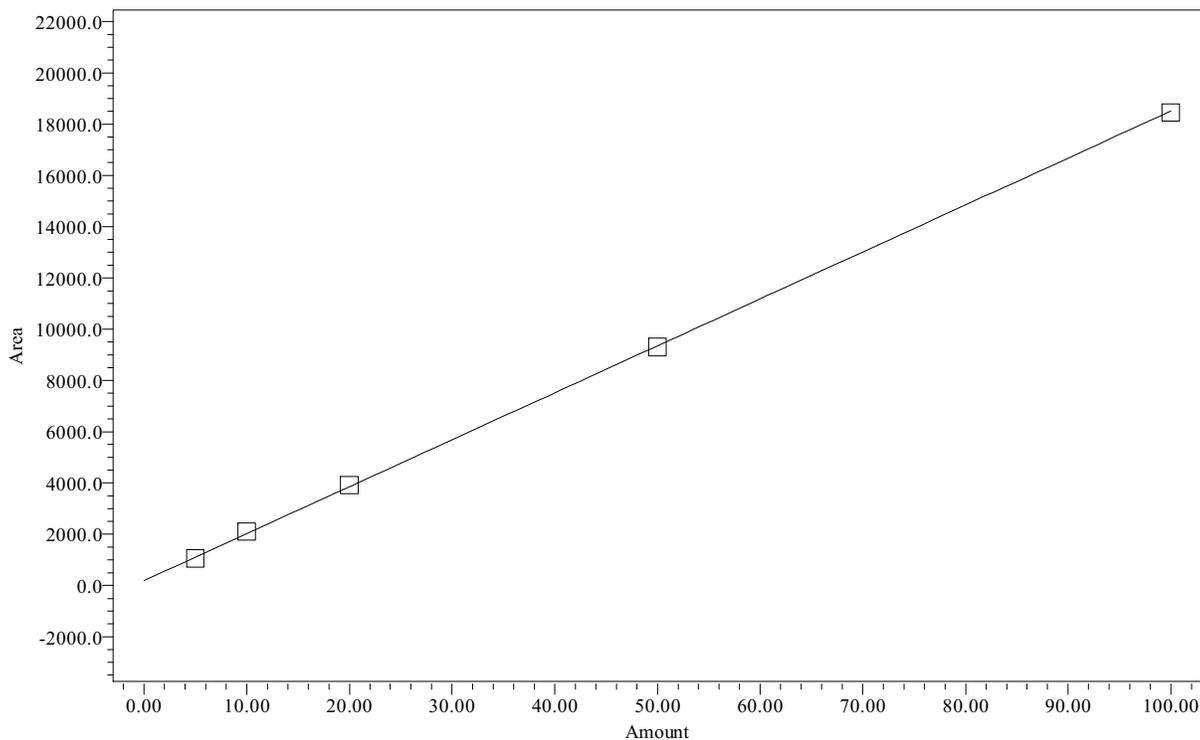
	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1248	5.00	1675	4.8	-3.352	No	No
2	A1248	10.00	3185	10.2	1.818	No	No
3	A1248	20.00	6047	20.3	1.585	No	No
4	A1248	50.00	14507	50.3	0.561	No	No
5	A1248	100.00	28371	99.4	-0.612	No	No



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Name:	A1248-11/15	Coefficient constant A:	188.213710
System Name:	Instrument_23_Ch02	Coefficient first Order B:	183.209460
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999799
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999597

Calibration Curve



Point Table  
Peak: A1248-11/15

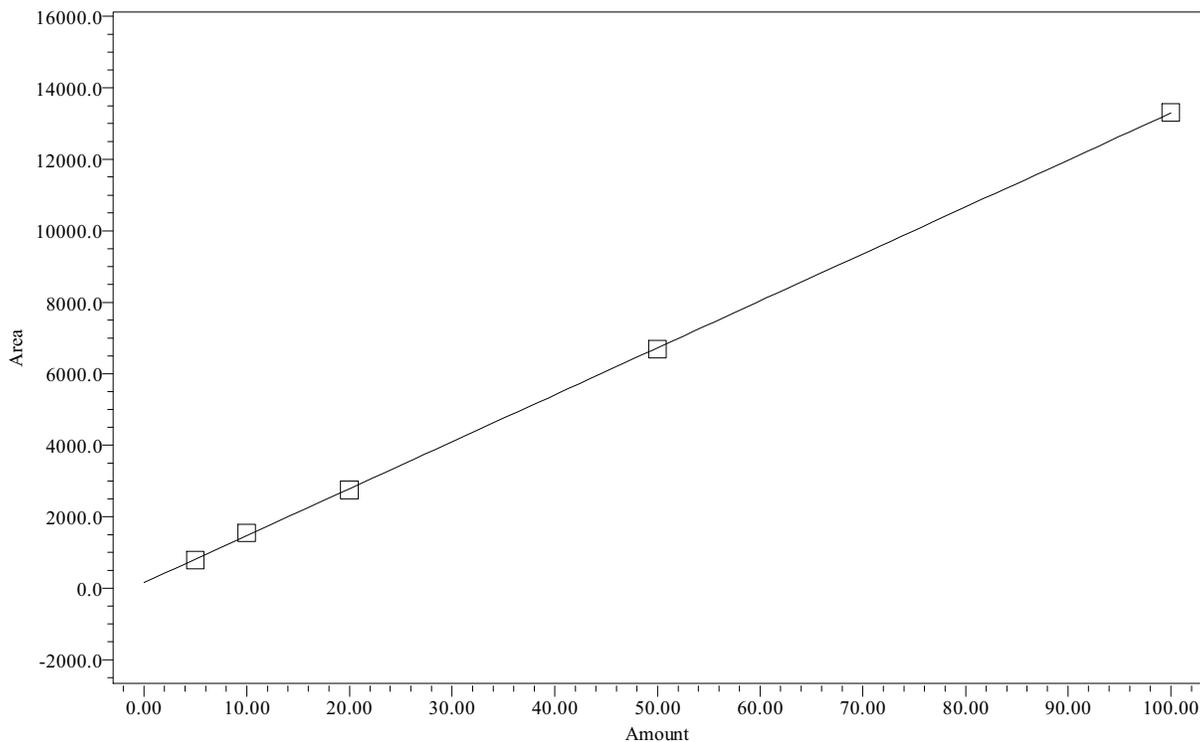
	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1248-11/15	5.00	1051	4.7	-5.776	No	No
2	A1248-11/15	10.00	2110	10.5	4.902	No	No
3	A1248-11/15	20.00	3912	20.3	1.635	No	No
4	A1248-11/15	50.00	9306	49.8	-0.464	No	No
5	A1248-11/15	100.00	18455	99.7	-0.296	No	No



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Name:	A1248-14/15	Coefficient constant A:	157.402154
System Name:	Instrument_23_Ch02	Coefficient first Order B:	131.348084
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999767
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999533

Calibration Curve



Point Table  
Peak: A1248-14/15

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1248-14/15	5.00	784	4.8	-4.527	No	No
2	A1248-14/15	10.00	1554	10.6	6.312	No	No
3	A1248-14/15	20.00	2748	19.7	-1.370	No	No
4	A1248-14/15	50.00	6688	49.7	-0.568	No	No
5	A1248-14/15	100.00	13312	100.2	0.153	No	No



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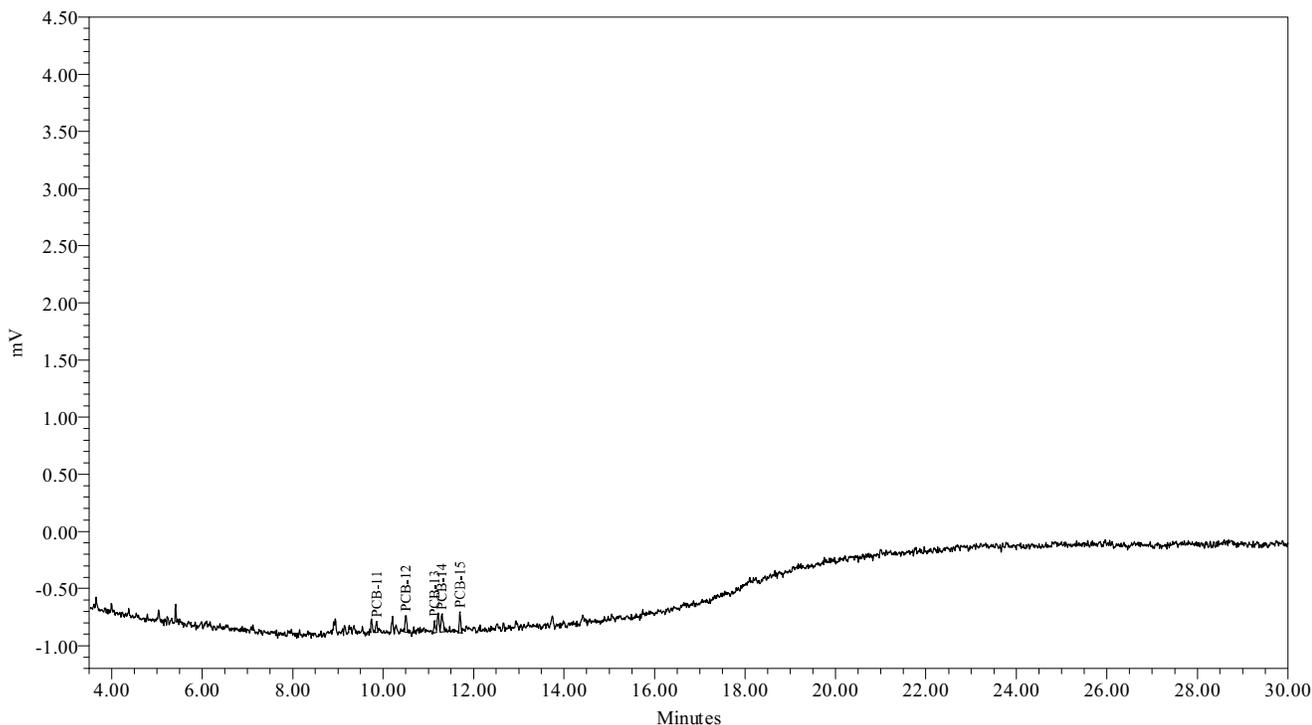
Sample Name: 040748A Sample Amount: 1  
Sample ID: A1248 5 PPB Dilution: 1  
Date Acquired: 4/7/2009 11:24:30 PM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:19:54 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 9:40:34 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-23

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-11	9.855	bv	192
2 PCB-12	10.501	vb	359
3 PCB-13	11.135	bv	234
4 PCB-14	11.298	vv	459
5 PCB-15	11.698	bb	432

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1248	1675	5.000
2 A1248-11/15	1051	5.000
3 A1248-14/15	784	5.000





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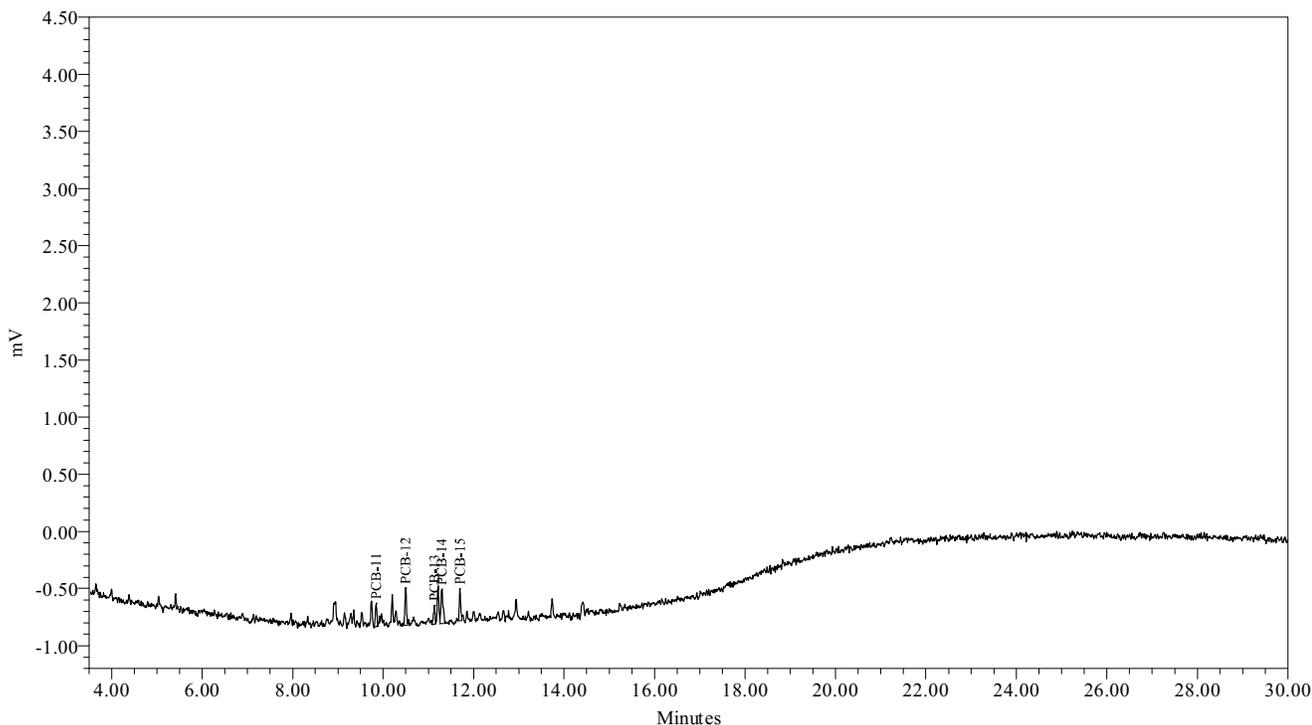
Sample Name:	040748B	Sample Amount:	1
Sample ID:	A1248 10 PPB	Dilution:	1
Date Acquired:	4/7/2009 11:57:05 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 11:19:56 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	9:40:39 AM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23B-21-24

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-11	9.847	bb	414
2 PCB-12	10.498	vv	731
3 PCB-13	11.136	bV	408
4 PCB-14	11.296	Vb	971
5 PCB-15	11.699	bv	661

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1248	3185	10.000
2 A1248-11/15	2110	10.000
3 A1248-14/15	1554	10.000





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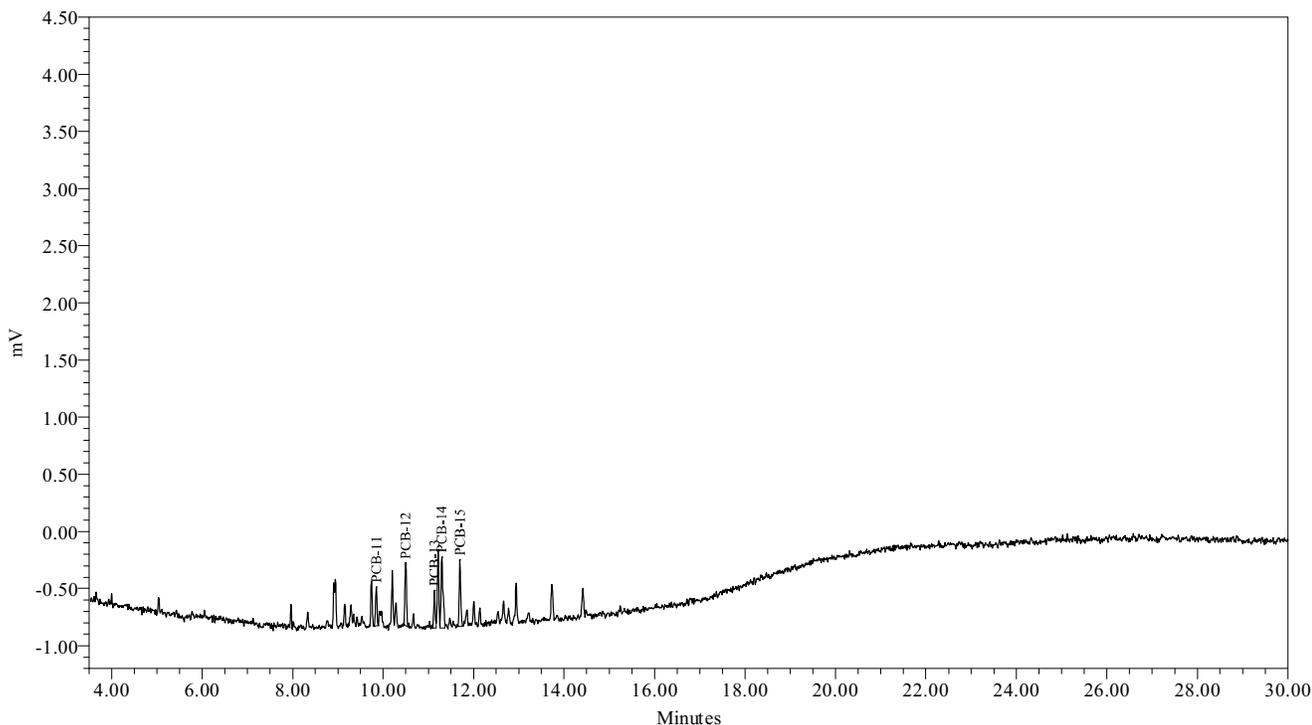
Sample Name: 040748C Sample Amount: 1  
Sample ID: A1248 20 PPB Dilution: 1  
Date Acquired: 4/8/2009 12:29:41 AM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:19:58 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 9:40:44 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-25

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-11	9.850	bb	675
2 PCB-12	10.498	bb	1299
3 PCB-13	11.135	bV	775
4 PCB-14	11.297	Vv	1839
5 PCB-15	11.699	bb	1459

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1248	6047	20.000
2 A1248-11/15	3912	20.000
3 A1248-14/15	2748	20.000





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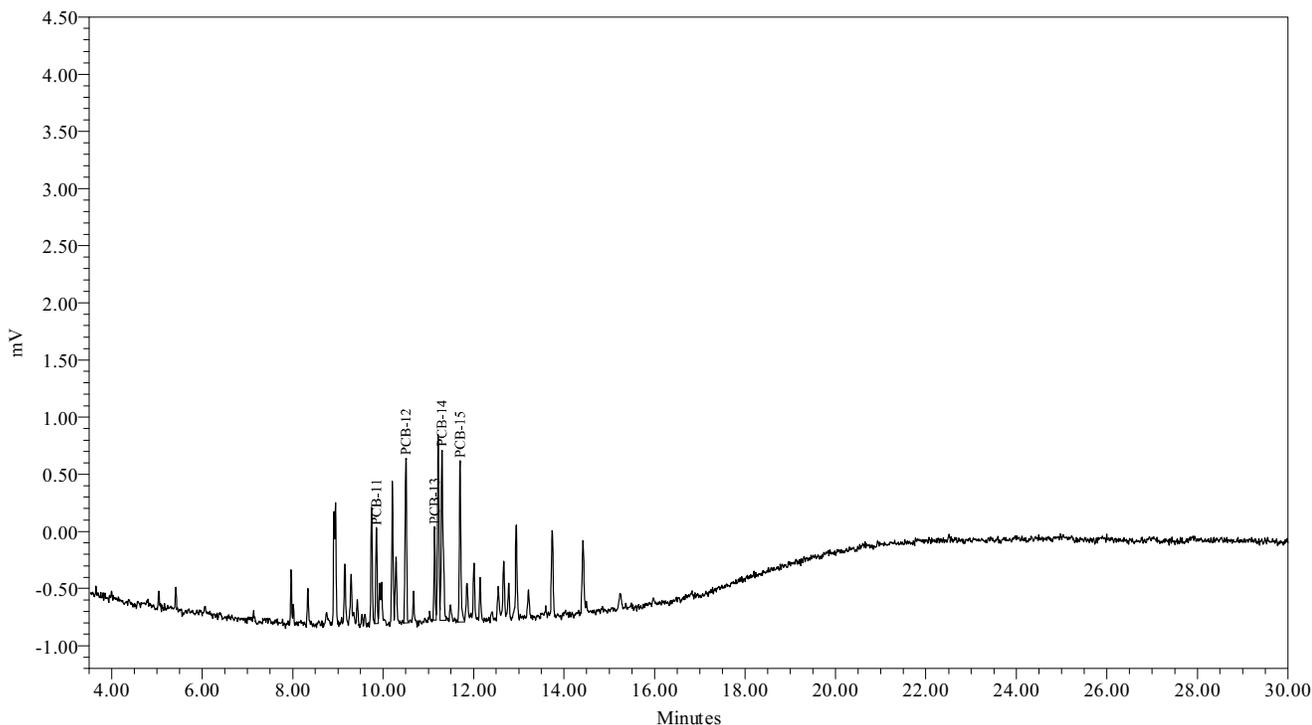
Sample Name: 040748D Sample Amount: 1  
Sample ID: A1248 50 PPB Dilution: 1  
Date Acquired: 4/8/2009 1:02:16 AM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:19:59 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 9:40:46 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-26

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-11	9.853	bV	1640
2 PCB-12	10.503	bb	3321
3 PCB-13	11.139	bV	1726
4 PCB-14	11.300	Vv	4259
5 PCB-15	11.702	bV	3560

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1248	14507	50.000
2 A1248-11/15	9306	50.000
3 A1248-14/15	6688	50.000





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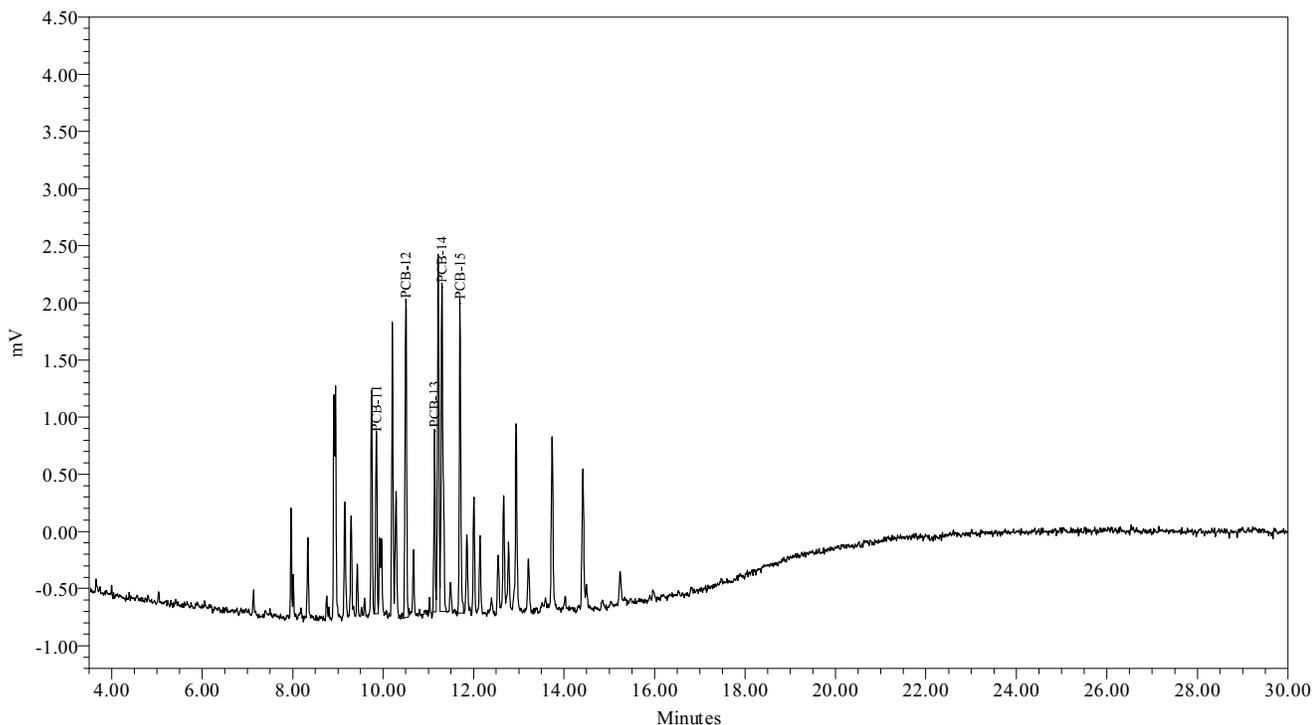
Sample Name: 040748E Sample Amount: 1  
Sample ID: A1248 100 PPB Dilution: 1  
Date Acquired: 4/8/2009 1:34:53 AM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:20:01 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 9:40:49 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-27

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-11	9.852	bV	3192
2 PCB-12	10.503	bV	6703
3 PCB-13	11.139	bV	3417
4 PCB-14	11.299	Vb	8335
5 PCB-15	11.701	bb	6724

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1248	28371	100.000
2 A1248-11/15	18455	100.000
3 A1248-14/15	13312	100.000





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System Name: Instrument\_23\_Ch02 Date Calibrated: 4/8/2009 12:10:36 PM EDT  
Sample Set Name: GC23B\_LLCC\_040709 Method Report: CCSum by RF 01  
Sample Set Date: 4/7/2009 11:25:37 AM EDT User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CLL\_040709

Calibration Component Summary Table  
Component Summary For RF

	Sample Name	A1254-17/18	A1254-19/20	A1254-20	A1254
1	040754A	249.6003	251.2268	316.7215	428.2943
2	040754B	288.2922	276.6555	350.9216	474.7495
3	040754C	298.9024	288.1040	369.7438	497.1644
4	040754D	284.9929	263.3210	343.3995	467.4669
5	040754E	293.5753	272.4574	357.1969	482.8091
Mean		283.073	270.353	347.597	470.097
Std. Dev.		19.444	13.915	19.778	25.837
% RSD		6.87	5.15	5.69	5.50

Calibration Component Summary Table  
Component Summary For RF

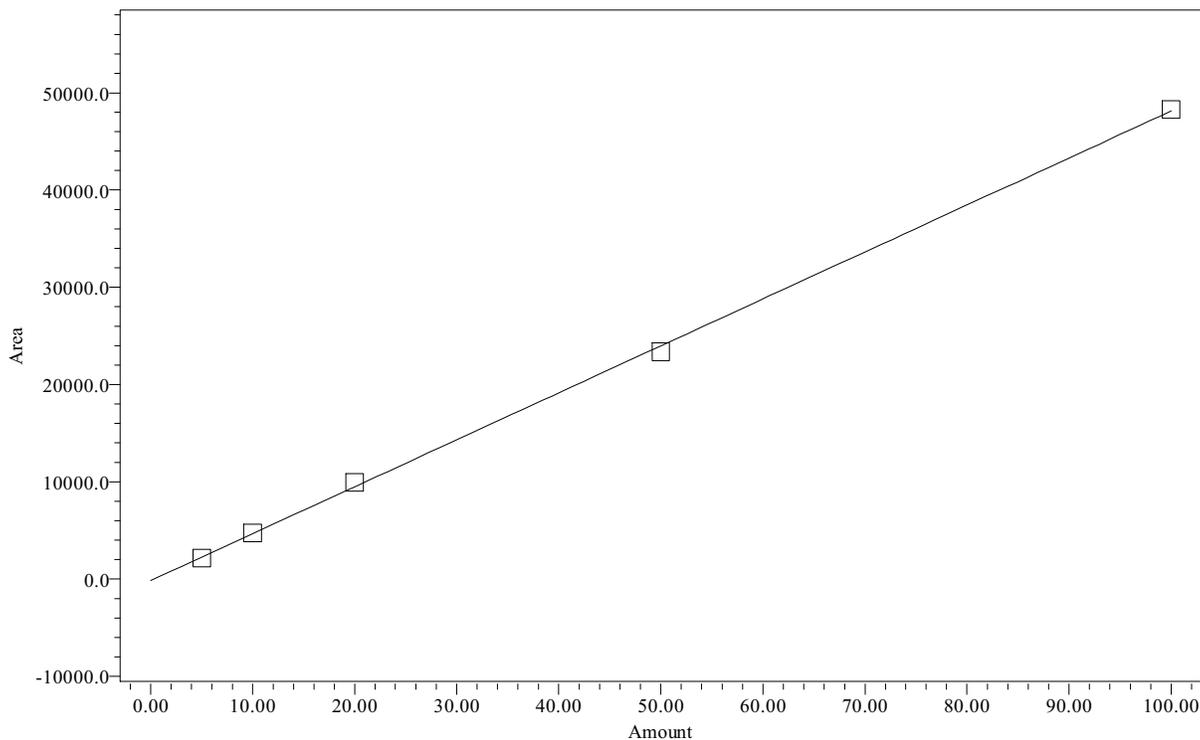
	Sample Name	TCMX	DCBP
1	040754A	1998.2024	2161.8694
2	040754B	1945.0463	2101.9569
3	040754C	1857.3151	2005.3657
4	040754D	1849.4578	1970.8113
5	040754E	1811.1875	1930.8224
Mean		1892.242	2034.165
Std. Dev.		76.870	95.429
% RSD		4.06	4.69



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Name:	A1254	Coefficient constant A:	-167.615207
System Name:	Instrument_23_Ch02	Coefficient first Order B:	482.835630
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999627
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.999253

Calibration Curve



Point Table  
Peak: A1254

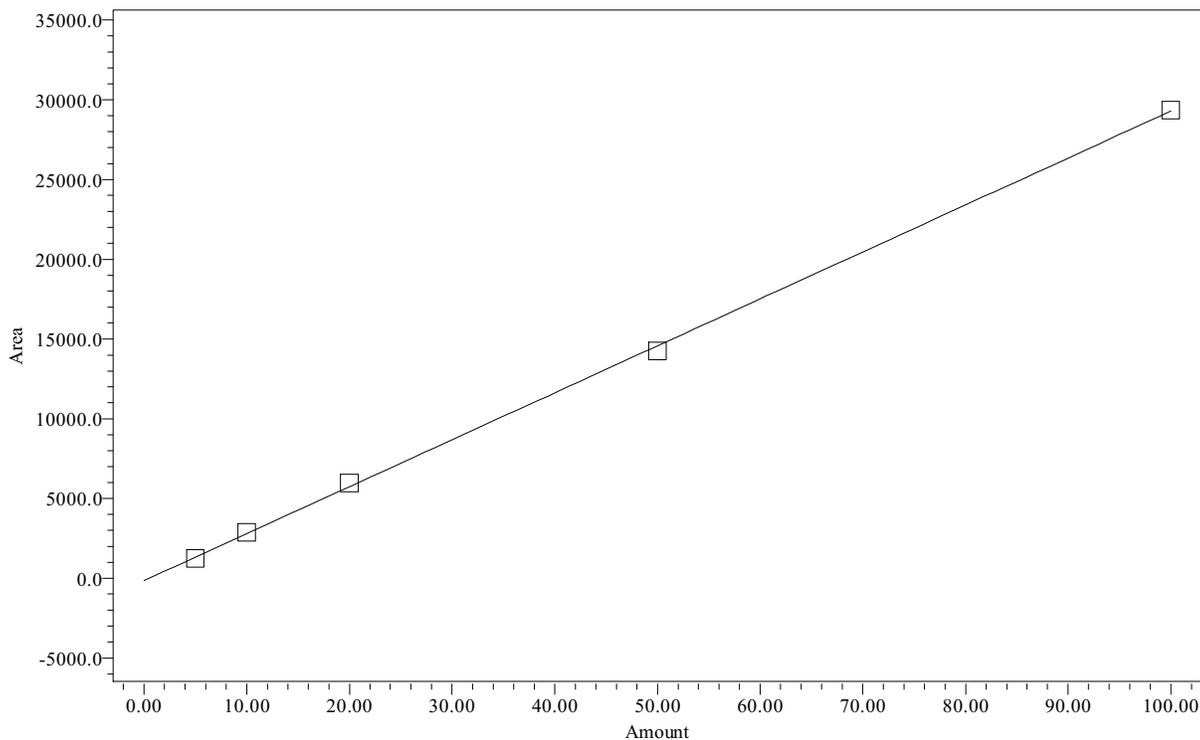
	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1254	5.00	2141	4.8	-4.353	No	No
2	A1254	10.00	4747	10.2	1.797	No	No
3	A1254	20.00	9943	20.9	4.703	No	No
4	A1254	50.00	23373	48.8	-2.489	No	No
5	A1254	100.00	48281	100.3	0.342	No	No



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Name:	A1254-17/18	Coefficient constant A:	-148.754387
System Name:	Instrument_23_Ch02	Coefficient first Order B:	294.377948
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999668
Method Report:	CCurve_Rpt	Coefficient of determination R^2:	0.999336

Calibration Curve



Point Table  
 Peak: A1254-17/18

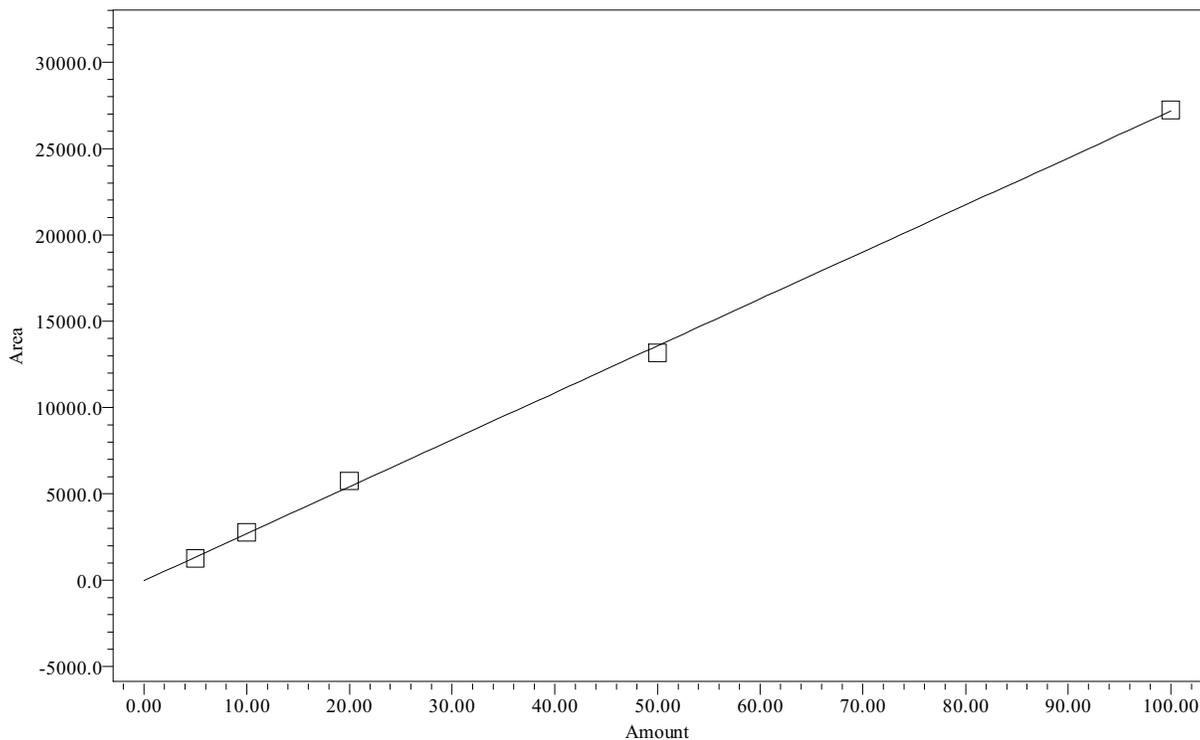
	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1254-17/18	5.00	1248	4.7	-5.105	No	No
2	A1254-17/18	10.00	2883	10.3	2.986	No	No
3	A1254-17/18	20.00	5978	20.8	4.064	No	No
4	A1254-17/18	50.00	14250	48.9	-2.177	No	No
5	A1254-17/18	100.00	29358	100.2	0.233	No	No



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Name:	A1254-19/20	Coefficient constant A:	-20.007231
System Name:	Instrument_23_Ch02	Coefficient first Order B:	271.873468
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999367
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.998734

Calibration Curve



Point Table  
Peak: A1254-19/20

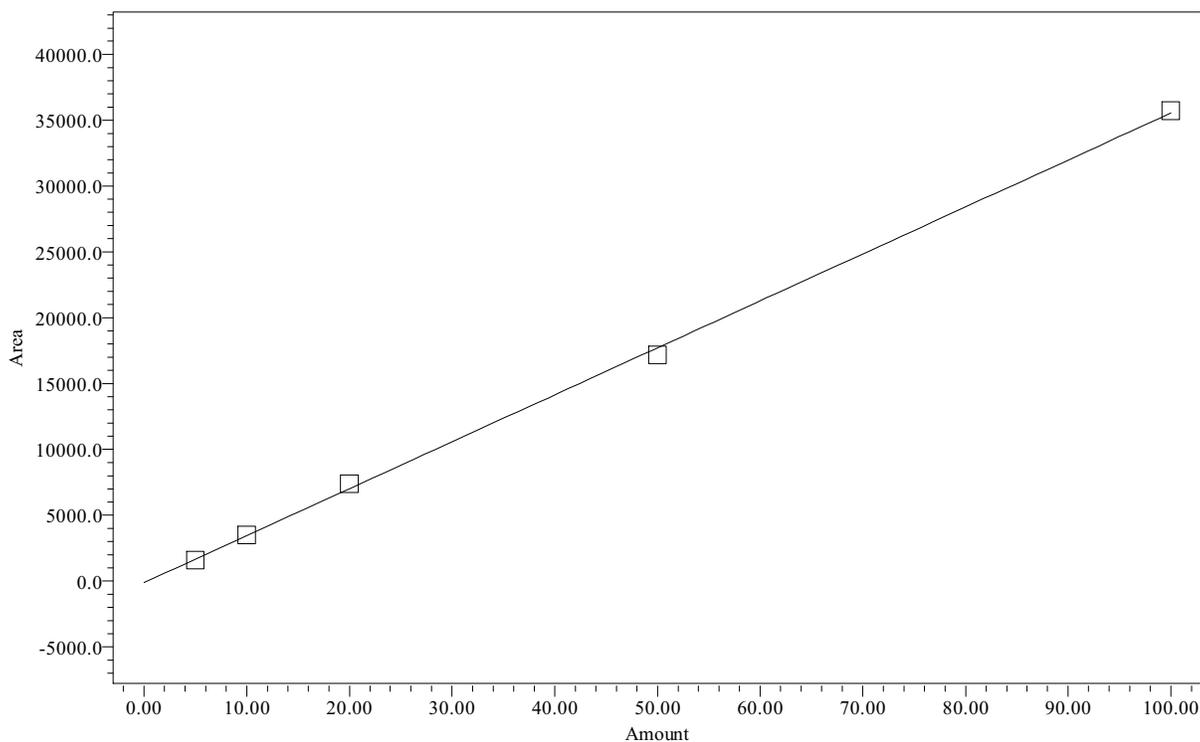
	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1254-19/20	5.00	1256	4.7	-6.122	No	No
2	A1254-19/20	10.00	2767	10.2	2.495	No	No
3	A1254-19/20	20.00	5762	21.3	6.338	No	No
4	A1254-19/20	50.00	13166	48.5	-2.999	No	No
5	A1254-19/20	100.00	27246	100.3	0.288	No	No



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Name:	A1254-20	Coefficient constant A:	-118.320382
System Name:	Instrument_23_Ch02	Coefficient first Order B:	356.589018
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999501
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999002

Calibration Curve



Point Table  
 Peak: A1254-20

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1254-20	5.00	1584	4.8	-4.544	No	No
2	A1254-20	10.00	3509	10.2	1.729	No	No
3	A1254-20	20.00	7395	21.1	5.348	No	No
4	A1254-20	50.00	17170	48.5	-3.035	No	No
5	A1254-20	100.00	35720	100.5	0.502	No	No



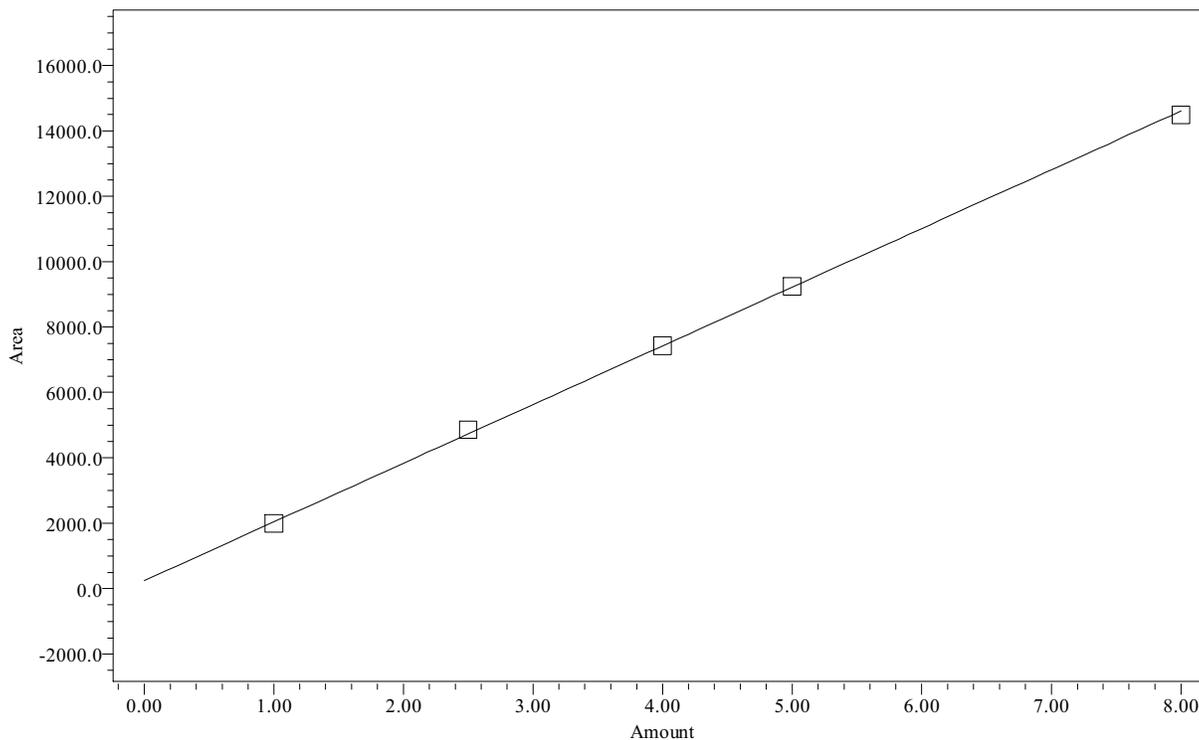
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Name:	TCMX	Coefficient constant A:	246.679483
System Name:	Instrument_23_Ch02	Coefficient first Order B:	1794.803430
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CCLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999795
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999591

Calibration Curve



Point Table  
Peak: TCMX

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	TCMX	1.00	1998	1.0	-2.411	No	No
2	TCMX	2.50	4863	2.6	2.873	No	No
3	TCMX	4.00	7429	4.0	0.047	No	No
4	TCMX	5.00	9247	5.0	0.296	No	No
5	TCMX	8.00	14490	7.9	-0.805	No	No

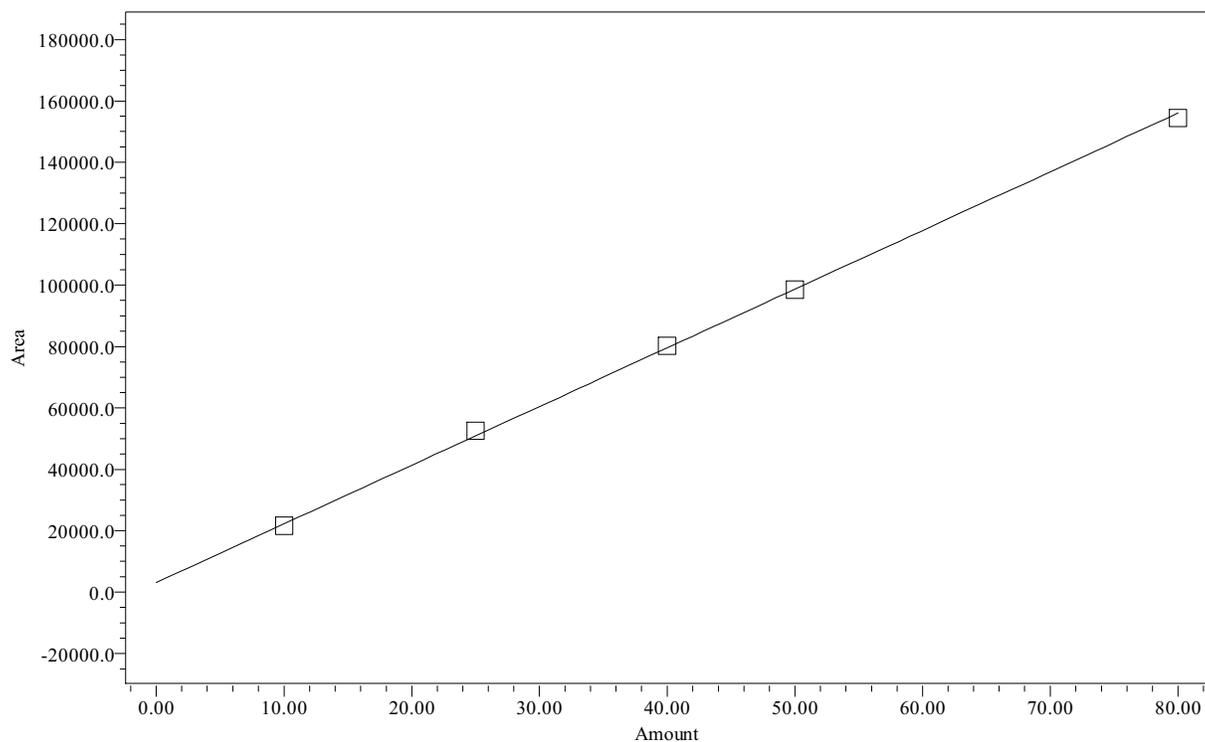


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Name: DCBP  
System Name: Instrument\_23\_Ch02  
Date Calibrated: 4/8/2009 12:10:36 PM EDT  
Processing Method: GC23B\_CLL\_040709  
Fit Type: Linear (1st Order)  
Method Report: CCurve\_Rpt

Coefficient constant A: 3104.197335  
Coefficient first Order B: 1911.549355  
Coefficient first Order C: 0.000000  
Coefficient first Order D: 0.000000  
Correlation coefficient R: 0.999673  
Coefficient of determination R^2: 0.999347

Calibration Curve



Point Table  
Peak: DCBP

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	DCBP	10.00	21619	9.7	-3.144	No	No
2	DCBP	25.00	52549	25.9	3.465	No	No
3	DCBP	40.00	80215	40.3	0.848	No	No
4	DCBP	50.00	98541	49.9	-0.148	No	No
5	DCBP	80.00	154466	79.2	-1.022	No	No



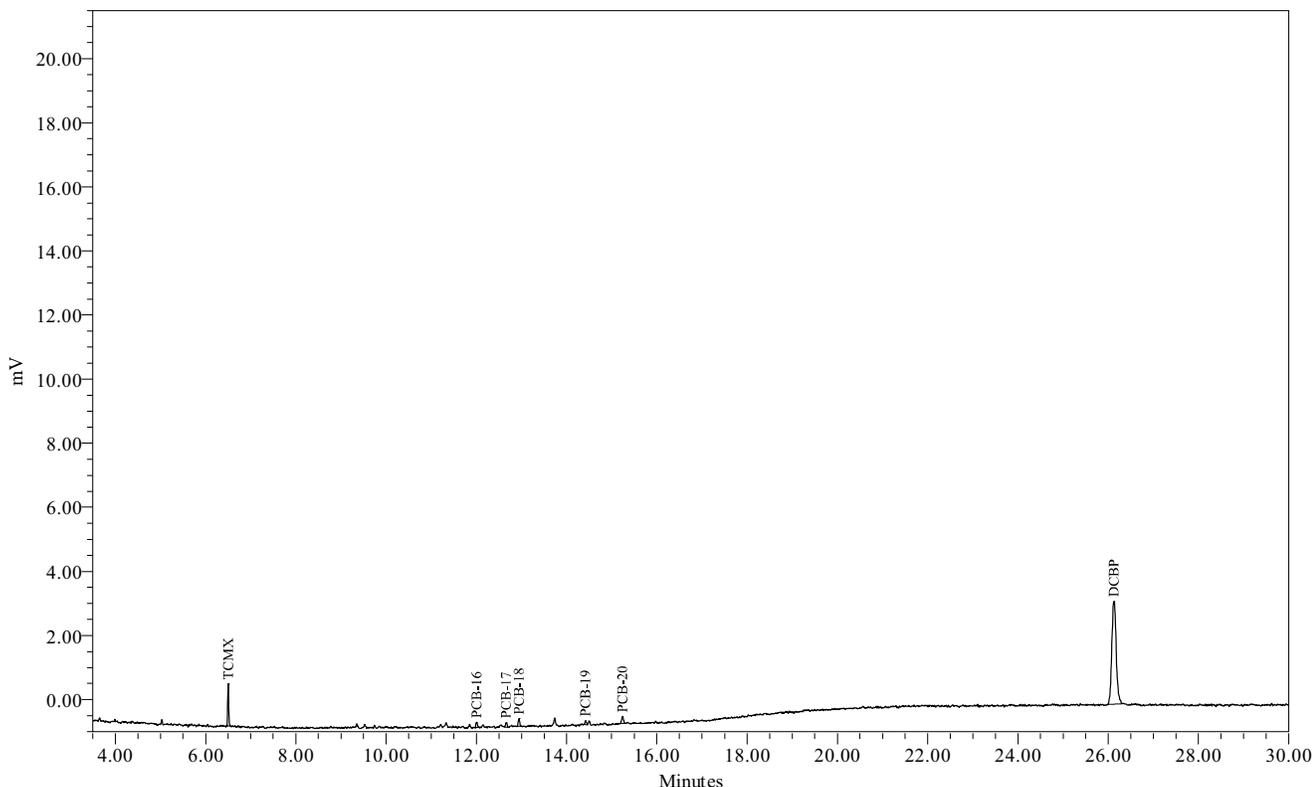
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Sample Name:	040754A	Sample Amount:	1
Sample ID:	A1254 5 PPB	Dilution:	1
Date Acquired:	4/8/2009 2:07:27 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 7:11:07 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	9:45:12 AM US/Eastern
Report Name:	CalStd_rpt_plt_1254	LIMS File ID:	GC23B-21-28

Group Results

Peak Results					
	Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL
1	TCMX	6.503	bb	1998	1.000
2	PCB-16	12.006	bb	363	
3	PCB-17	12.660	bb	303	
4	PCB-18	12.943	bb	590	
5	PCB-19	14.418	bV	327	
6	PCB-20	15.237	bb	558	
7	DCBP	26.126	bb	21619	10.000

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1	A1254	2141	5.000
2	A1254-17/18	1248	5.000
3	A1254-19/20	1256	5.000
4	A1254-20	1584	5.000
5	A1260	558	
6	A1260-23/24	558	





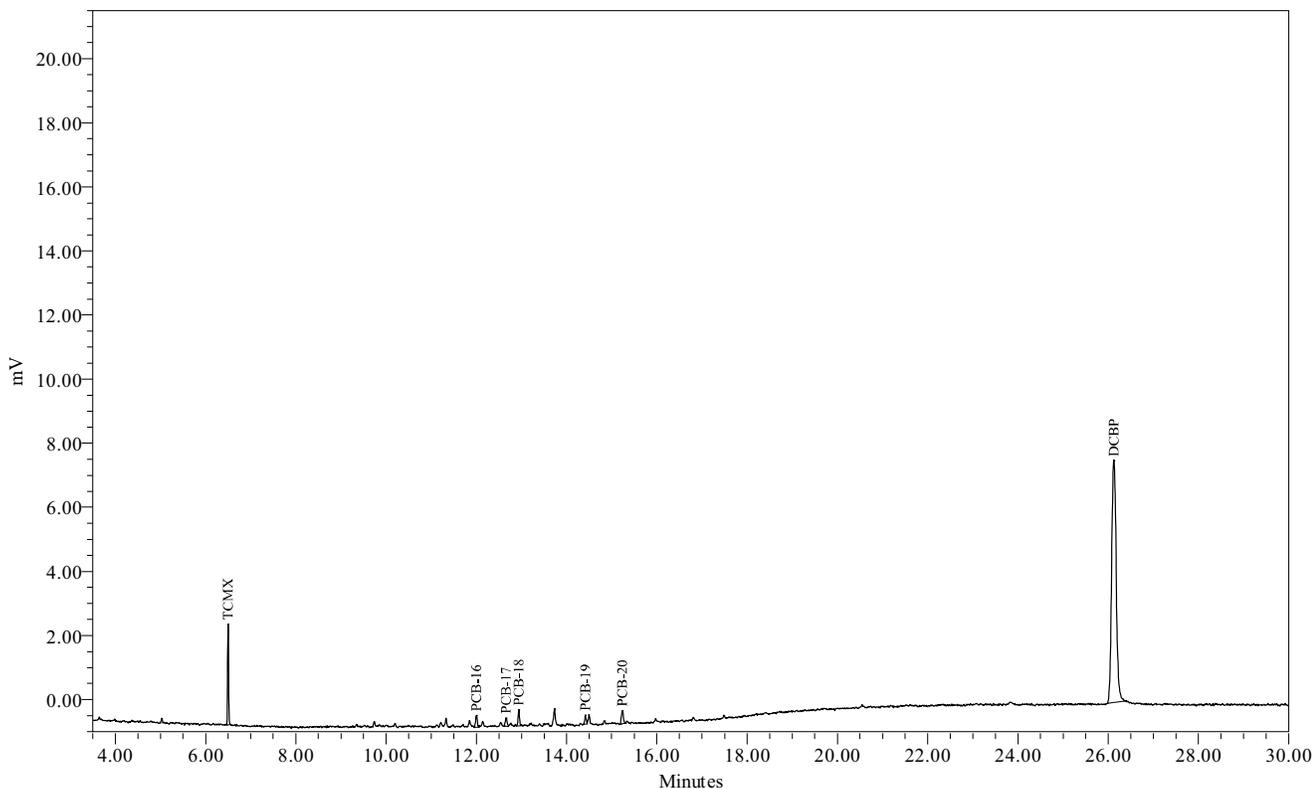
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Sample Name: 040754B Sample Amount: 1  
Sample ID: A1254 10 PPB Dilution: 1  
Date Acquired: 4/8/2009 2:40:01 AM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 7:11:39 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 9:45:23 AM US/Eastern  
Report Name: CalStd\_rpt\_plt\_1254 LIMS File ID: GC23B-21-29

Group Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL
1 TCMX	6.500	bb	4863	2.500
2 PCB-16	12.002	bb	902	
3 PCB-17	12.658	bV	723	
4 PCB-18	12.939	Vb	1141	
5 PCB-19	14.417	bV	743	
6 PCB-20	15.233	bb	1238	
7 DCBP	26.125	bb	52549	25.000

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	4747	10.000
2 A1254-17/18	2883	10.000
3 A1254-19/20	2767	10.000
4 A1254-20	3509	10.000
5 A1260	1238	
6 A1260-23/24	1238	





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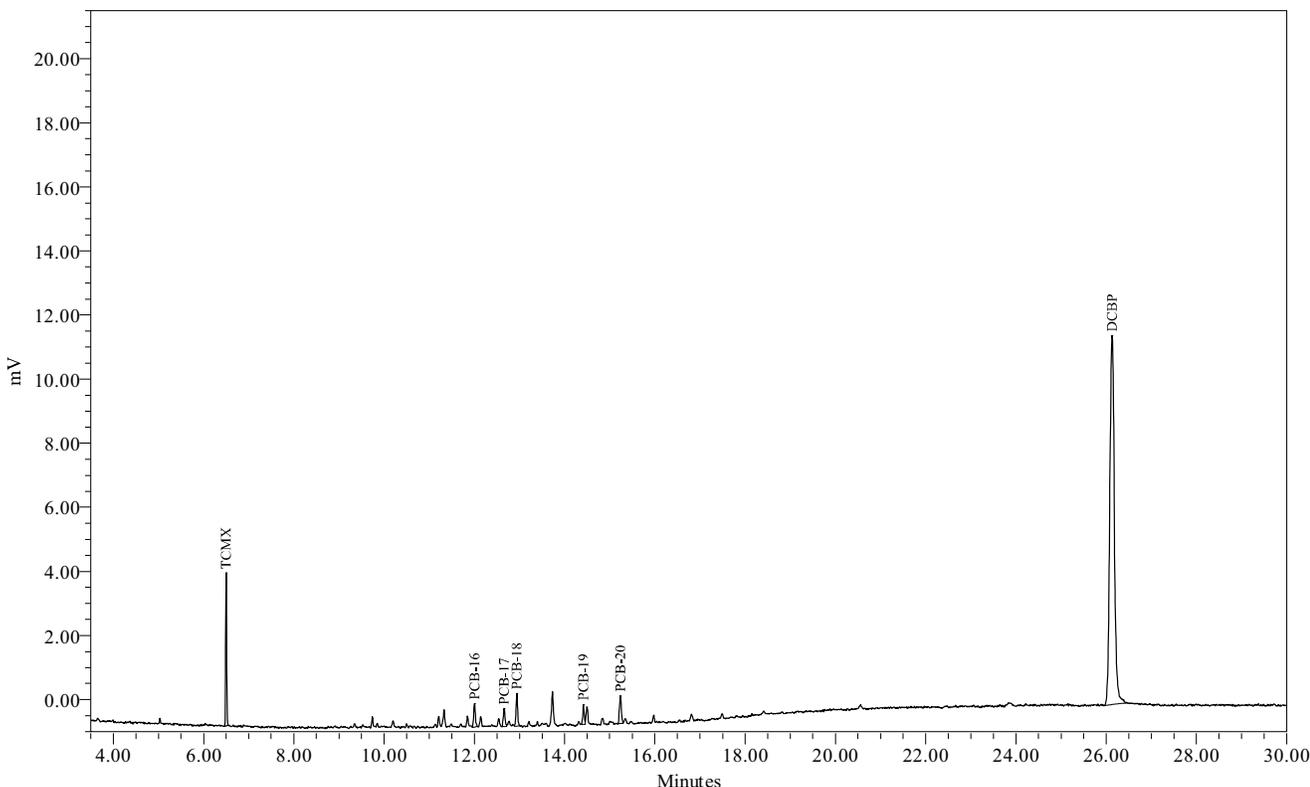
Sample Name:	040754C	Sample Amount:	1
Sample ID:	A1254 20 PPB	Dilution:	1
Date Acquired:	4/8/2009 3:12:35 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 7:12:13 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	9:45:25 AM US/Eastern
Report Name:	CalStd_rpt_plt_1254	LIMS File ID:	GC23B-21-30

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1	A1254	9943	20.000
2	A1254-17/18	5978	20.000
3	A1254-19/20	5762	20.000
4	A1254-20	7395	20.000
5	A1260	2548	
6	A1260-23/24	2548	

Peak Results

	Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL
1	TCMX	6.502	bb	7429	4.000
2	PCB-16	12.003	bb	1797	
3	PCB-17	12.661	bV	1388	
4	PCB-18	12.940	Vb	2577	
5	PCB-19	14.418	bV	1633	
6	PCB-20	15.234	bV	2548	
7	DCBP	26.130	bb	80215	40.000





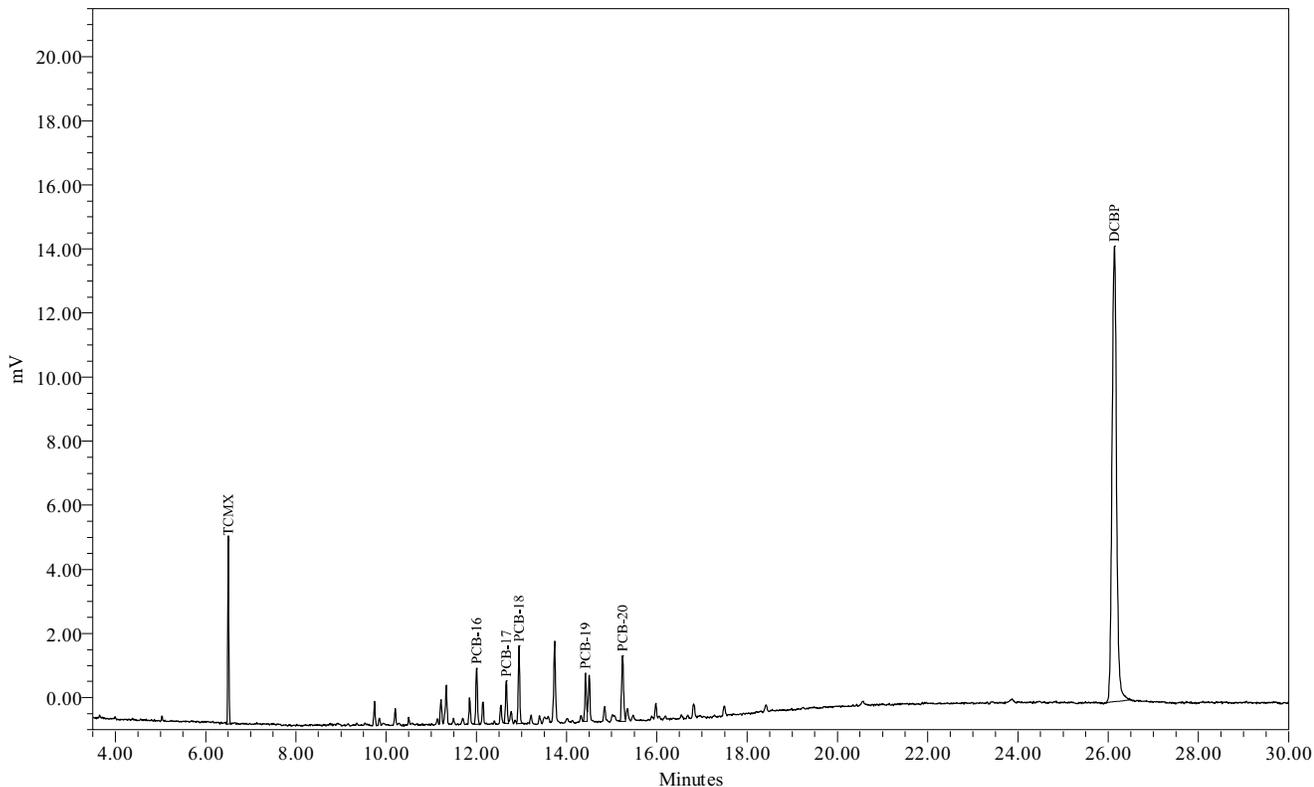
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Sample Name:	040754D	Sample Amount:	1
Sample ID:	A1254 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 3:45:10 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 7:12:45 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	9:45:32 AM US/Eastern
Report Name:	CalStd_rpt_plt_1254	LIMS File ID:	GC23B-21-31

Group Results

Peak Results					
Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	
1 TCMX	6.505	bb	9247	5.000	
2 PCB-16	12.006	bb	4042		
3 PCB-17	12.663	bV	3104		
4 PCB-18	12.944	Vb	6020		
5 PCB-19	14.420	bV	4004		
6 PCB-20	15.238	bV	6203		
7 DCBP	26.137	bb	98541	50.000	

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	23373	50.000
2 A1254-17/18	14250	50.000
3 A1254-19/20	13166	50.000
4 A1254-20	17170	50.000
5 A1260	6203	
6 A1260-23/24	6203	





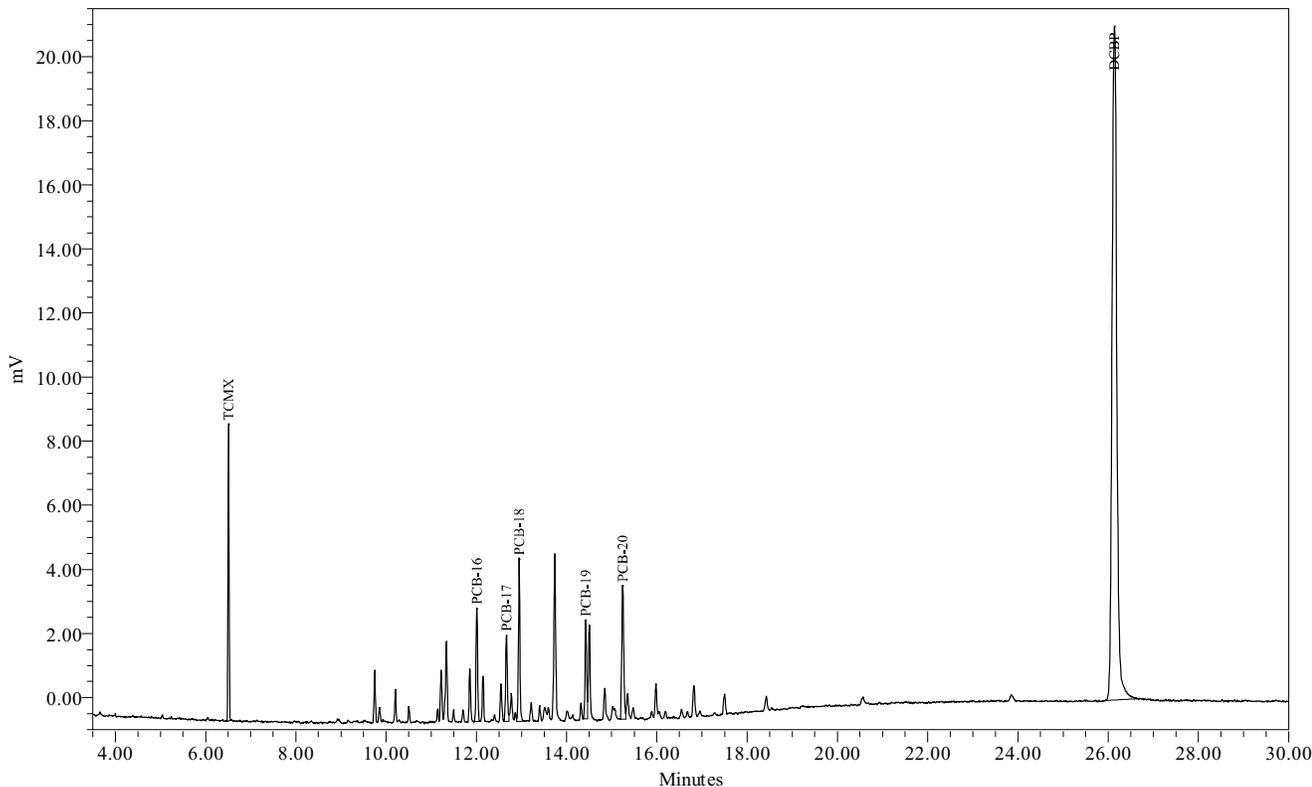
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Sample Name:	040754E	Sample Amount:	1
Sample ID:	A1254 100 PPB	Dilution:	1
Date Acquired:	4/8/2009 4:17:45 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 7:13:26 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	9:45:34 AM US/Eastern
Report Name:	CalStd_rpt_plt_1254	LIMS File ID:	GC23B-21-32

Group Results

Peak Results					
Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	
1 TCMX	6.510	bb	14490	8.000	
2 PCB-16	12.011	bV	8322		
3 PCB-17	12.667	VV	6534		
4 PCB-18	12.947	Vb	12389		
5 PCB-19	14.425	bV	8474		
6 PCB-20	15.242	bV	12561		
7 DCBP	26.137	Bb	154466	80.000	

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	48281	100.000
2 A1254-17/18	29358	100.000
3 A1254-19/20	27246	100.000
4 A1254-20	35720	100.000
5 A1260	12561	
6 A1260-23/24	12561	





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System Name: Instrument\_23\_Ch02 Date Calibrated: 4/8/2009 12:10:36 PM EDT  
Sample Set Name: GC23B\_LLCC\_040709 Method Report: CCSum by RF 02  
Sample Set Date: 4/7/2009 11:25:37 AM EDT User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CLL\_040709

Calibration Component Summary Table  
Component Summary For RF

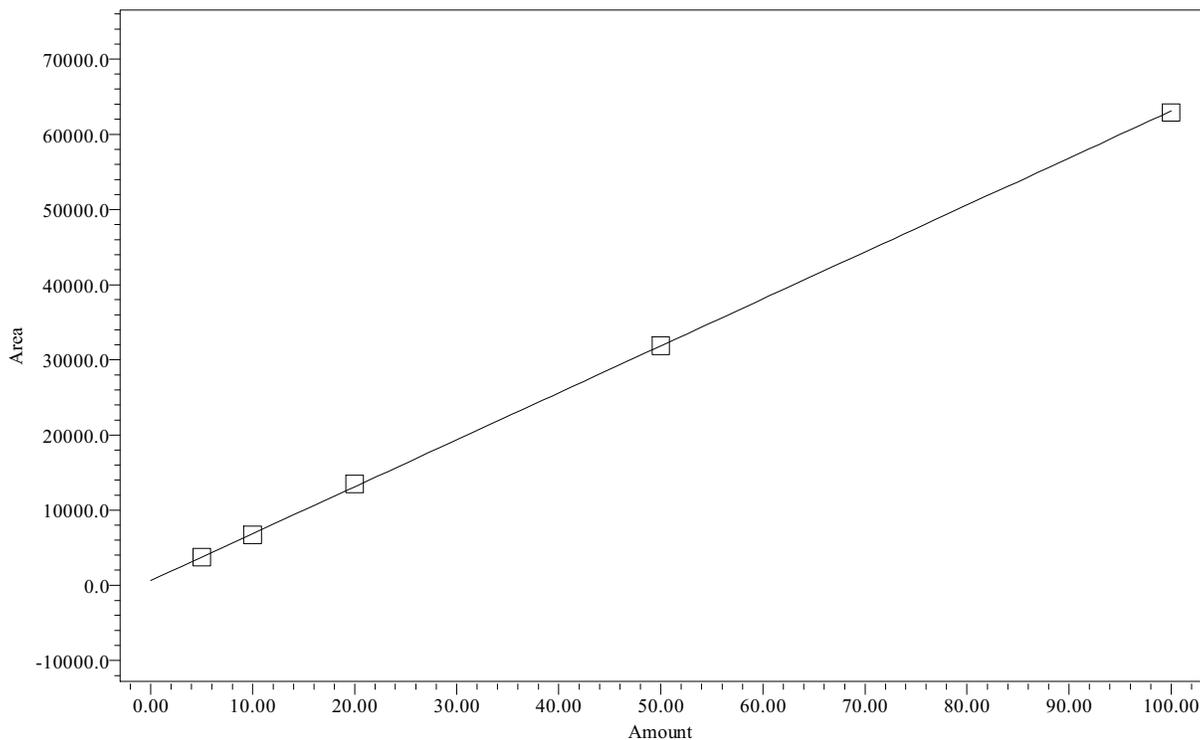
	Sample Name	A1260	A1260-20	A1260-23/24
1	040760A	750.5905	559.3124	613.0044
2	040760B	671.4874	507.0800	559.4701
3	040760C	673.0205	496.3930	567.6315
4	040760D	637.2219	466.8872	539.4734
5	040760E	628.9840	464.0005	532.6729
Mean		672.261	498.735	562.450
Std. Dev.		48.056	38.618	31.647
% RSD		7.15	7.74	5.63



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Name:	A1260	Coefficient constant A:	626.990225
System Name:	Instrument_23_Ch02	Coefficient first Order B:	624.609612
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999907
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999813

Calibration Curve



Point Table  
Peak: A1260

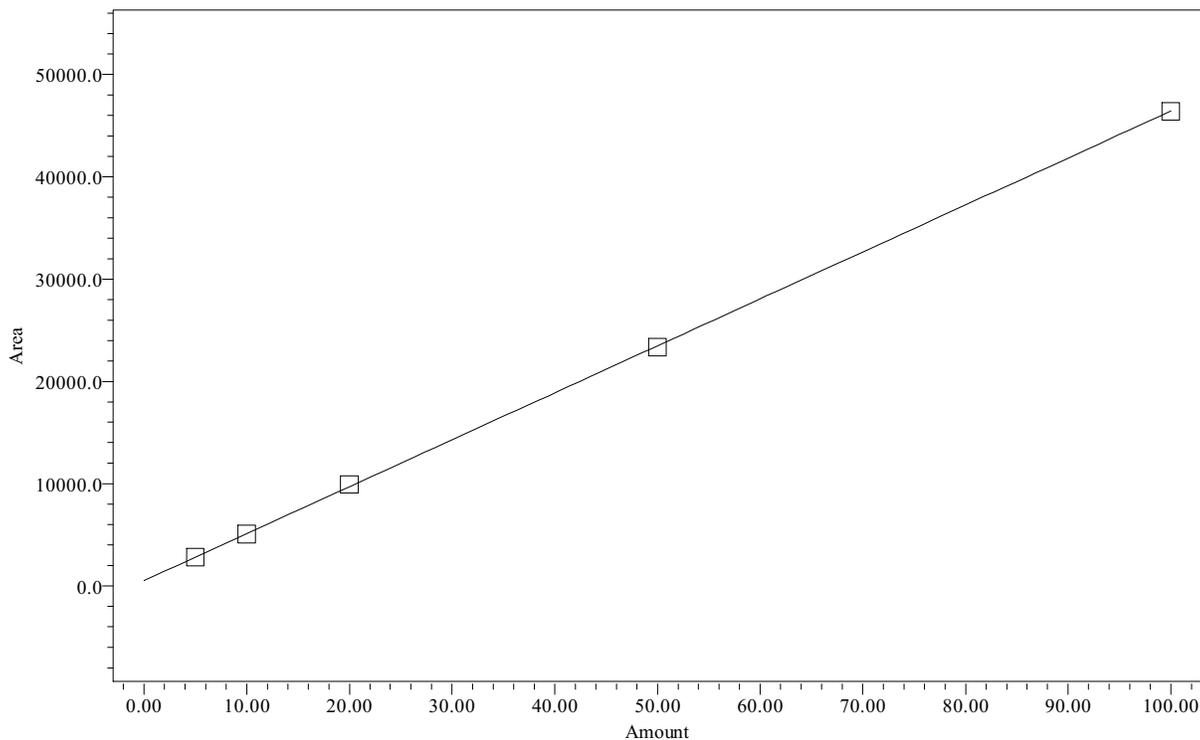
	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1260	5.00	3753	5.0	0.093	No	No
2	A1260	10.00	6715	9.7	-2.533	No	No
3	A1260	20.00	13460	20.5	2.732	No	No
4	A1260	50.00	31861	50.0	0.012	No	No
5	A1260	100.00	62898	99.7	-0.303	No	No



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Name:	A1260-20	Coefficient constant A:	521.663786
System Name:	Instrument_23_Ch02	Coefficient first Order B:	459.088158
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999938
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999875

Calibration Curve



Point Table  
Peak: A1260-20

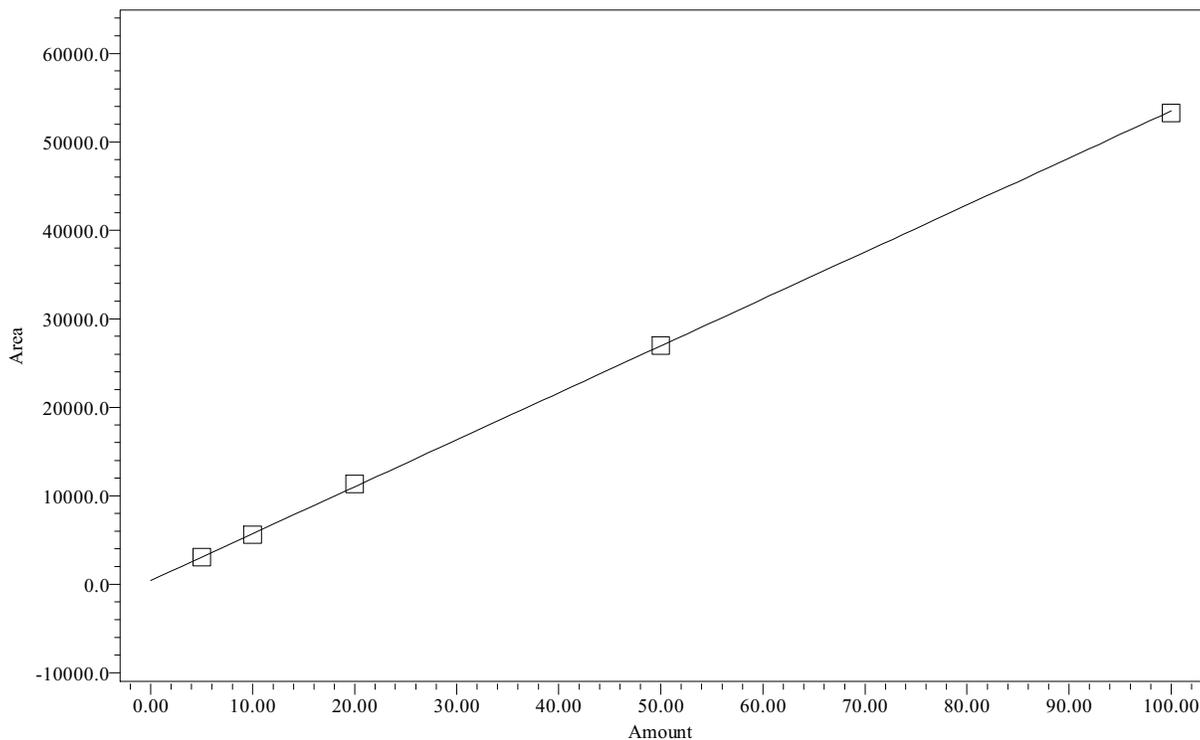
	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1260-20	5.00	2797	5.0	-0.895	No	No
2	A1260-20	10.00	5071	9.9	-0.909	No	No
3	A1260-20	20.00	9928	20.5	2.444	No	No
4	A1260-20	50.00	23344	49.7	-0.574	No	No
5	A1260-20	100.00	46400	99.9	-0.066	No	No



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Name:	A1260-23/24	Coefficient constant A:	419.428673
System Name:	Instrument_23_Ch02	Coefficient first Order B:	530.573868
Date Calibrated:	4/8/2009 12:10:36 PM EDT	Coefficient first Order C:	0.000000
Processing Method:	GC23B_CLL_040709	Coefficient first Order D:	0.000000
Fit Type:	Linear (1st Order)	Correlation coefficient R:	0.999891
Method Report:	CCurve_Rpt	Coefficient of determination R <sup>2</sup> :	0.999781

Calibration Curve



Point Table  
Peak: A1260-23/24

	Name	Amount PPB	Response	Calc. Value	% Deviation	Manual	Ignore
1	A1260-23/24	5.00	3065	5.0	-0.274	No	No
2	A1260-23/24	10.00	5595	9.8	-2.459	No	No
3	A1260-23/24	20.00	11353	20.6	3.032	No	No
4	A1260-23/24	50.00	26974	50.0	0.096	No	No
5	A1260-23/24	100.00	53267	99.6	-0.395	No	No



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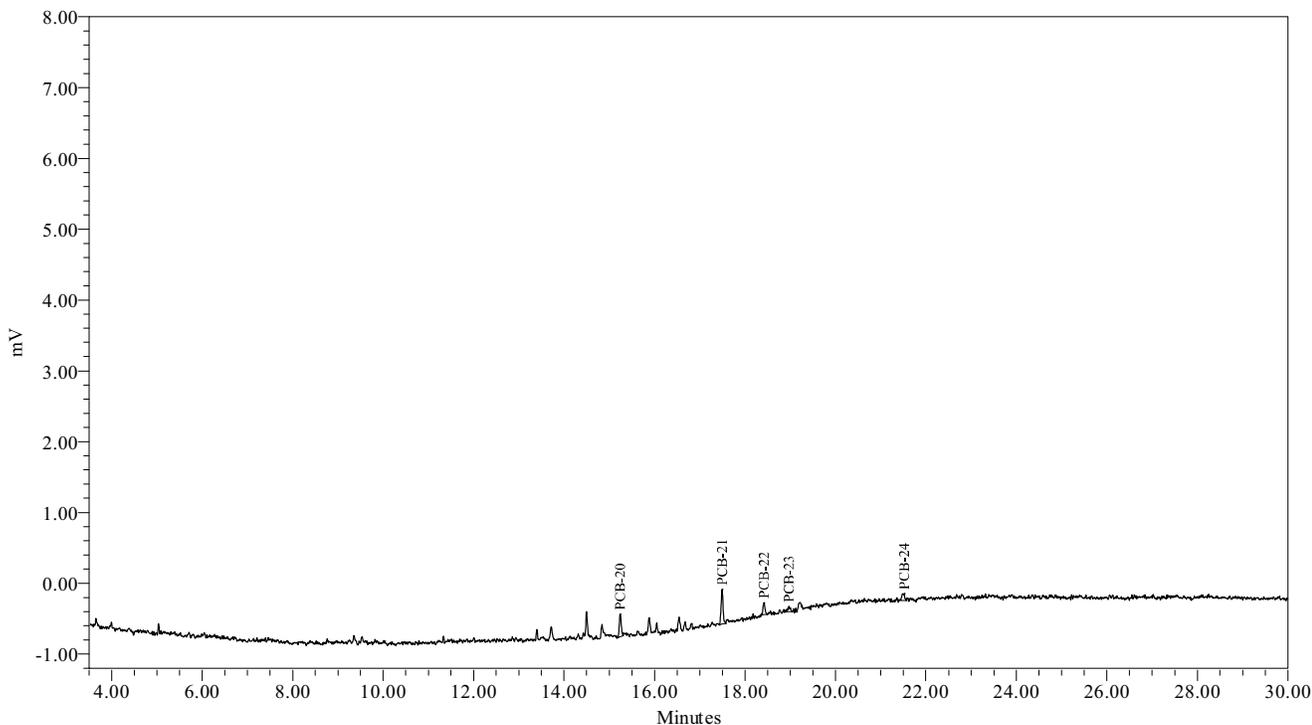
Sample Name:	040760A	Sample Amount:	1
Sample ID:	A1260 5 PPB	Dilution:	1
Date Acquired:	4/8/2009 4:50:20 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 11:07:33 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	9:47:44 AM US/Eastern
Report Name:	CalStd_rpt_plt	LIMS File ID:	GC23B-21-33

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-20	15.239	bb	956
2 PCB-21	17.491	bb	1546
3 PCB-22	18.421	bb	563
4 PCB-23	18.972	bb	292
5 PCB-24	21.519	bb	396

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	956	
2 A1254-17/18	956	
3 A1260	3753	5.000
4 A1260-20	2797	5.000
5 A1260-23/24	3065	5.000





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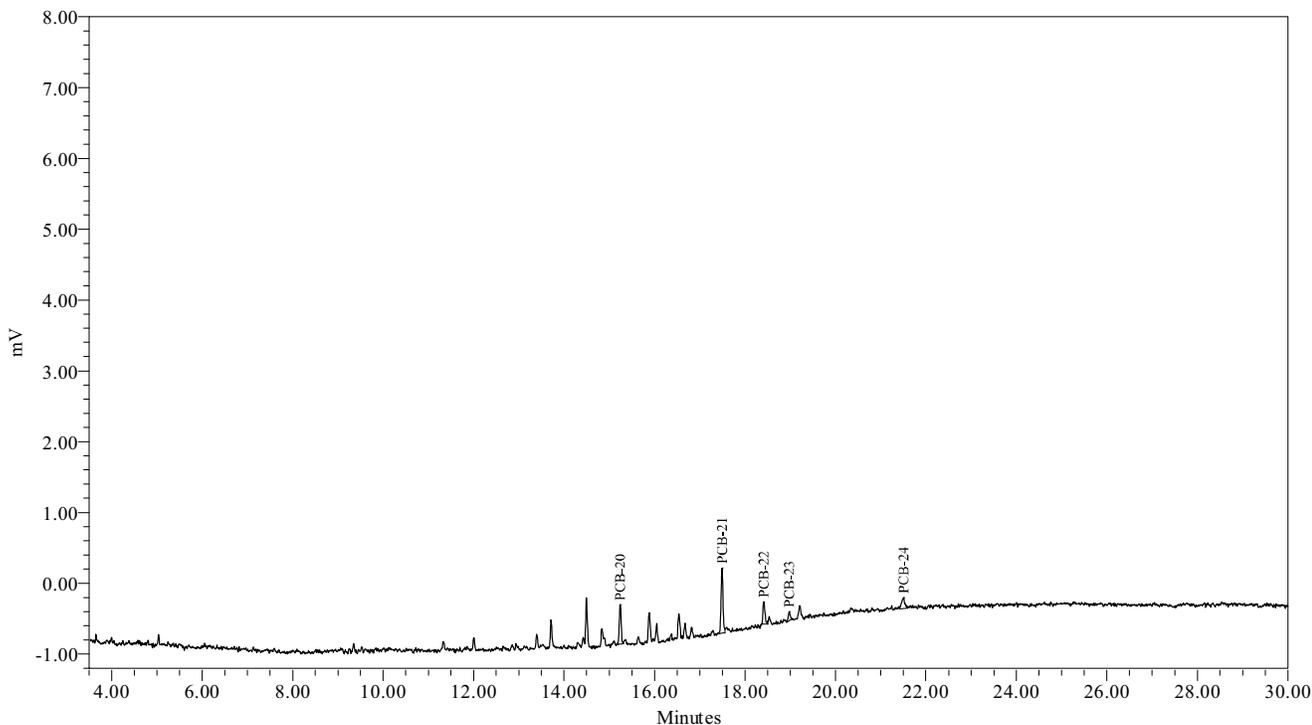
Sample Name: 040760B Sample Amount: 1  
Sample ID: A1260 10 PPB Dilution: 1  
Date Acquired: 4/8/2009 5:22:55 AM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:09:26 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 9:47:50 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-34

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-20	15.240	bb	1644
2 PCB-21	17.491	bV	2910
3 PCB-22	18.417	bb	1040
4 PCB-23	18.980	bb	392
5 PCB-24	21.502	bb	729

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	1644	
2 A1254-17/18	1644	
3 A1260	6715	10.000
4 A1260-20	5071	10.000
5 A1260-23/24	5595	10.000





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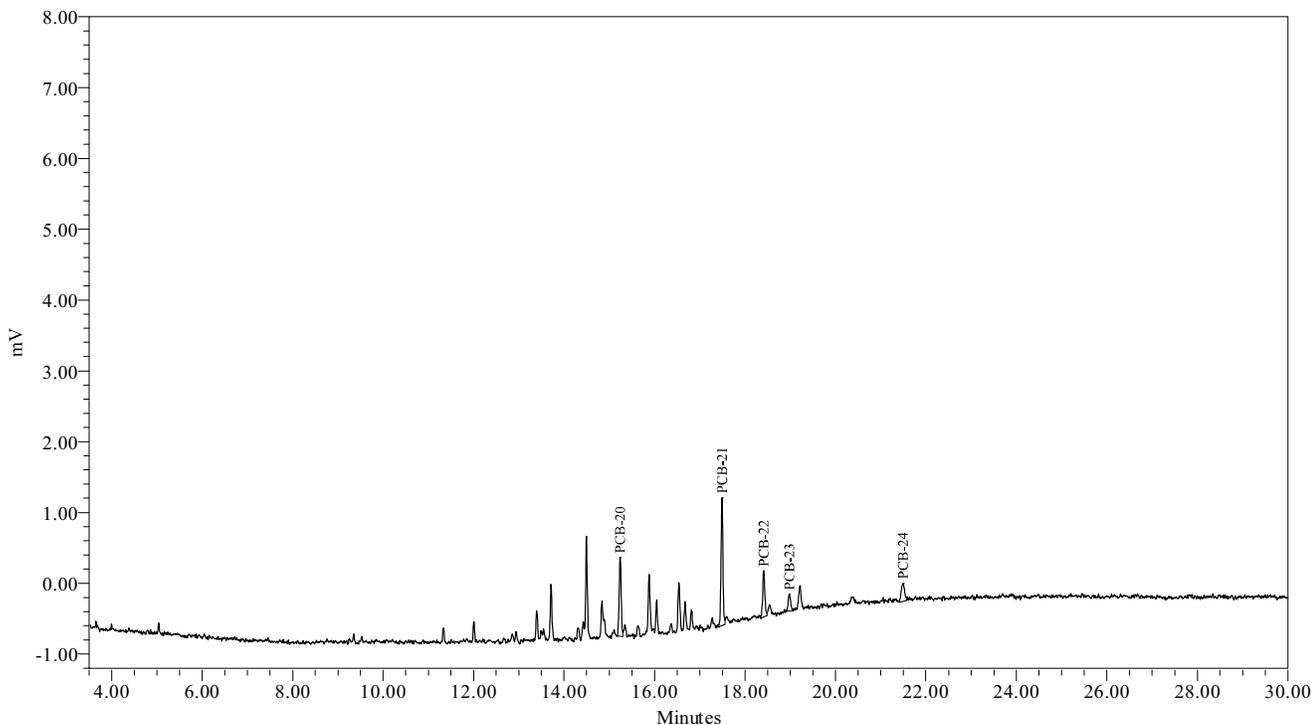
Sample Name: 040760C Sample Amount: 1  
Sample ID: A1260 20 PPB Dilution: 1  
Date Acquired: 4/8/2009 5:55:30 AM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:10:22 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 9:47:53 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-35

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-20	15.239	bV	3533
2 PCB-21	17.491	bV	5583
3 PCB-22	18.414	bV	2237
4 PCB-23	18.985	bV	858
5 PCB-24	21.495	bV	1250

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	3533	
2 A1254-17/18	3533	
3 A1260	13460	20.000
4 A1260-20	9928	20.000
5 A1260-23/24	11353	20.000





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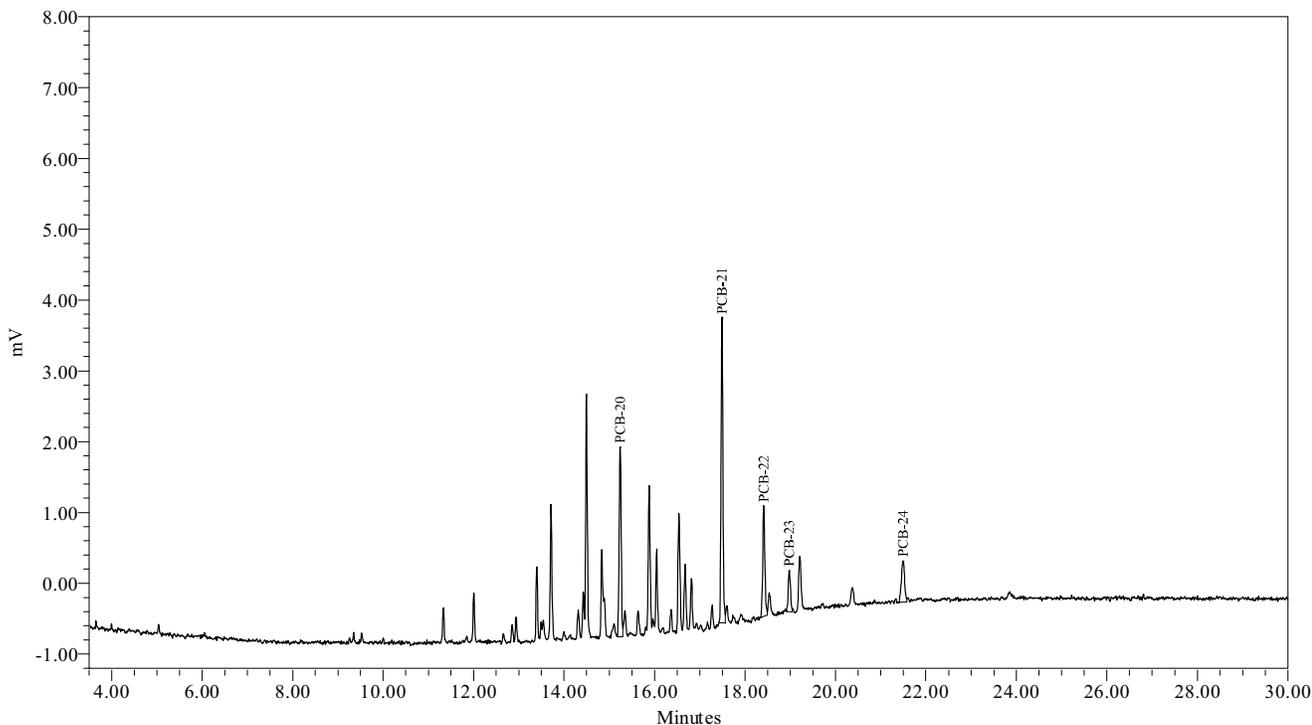
Sample Name: 040760D Sample Amount: 1  
Sample ID: A1260 50 PPB Dilution: 1  
Date Acquired: 4/8/2009 6:28:06 AM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:11:10 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 9:48:02 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-36

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-20	15.238	bV	8517
2 PCB-21	17.490	bV	13157
3 PCB-22	18.416	bV	5300
4 PCB-23	18.980	bV	2079
5 PCB-24	21.492	bV	2809

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	8517	
2 A1254-17/18	8517	
3 A1260	31861	50.000
4 A1260-20	23344	50.000
5 A1260-23/24	26974	50.000





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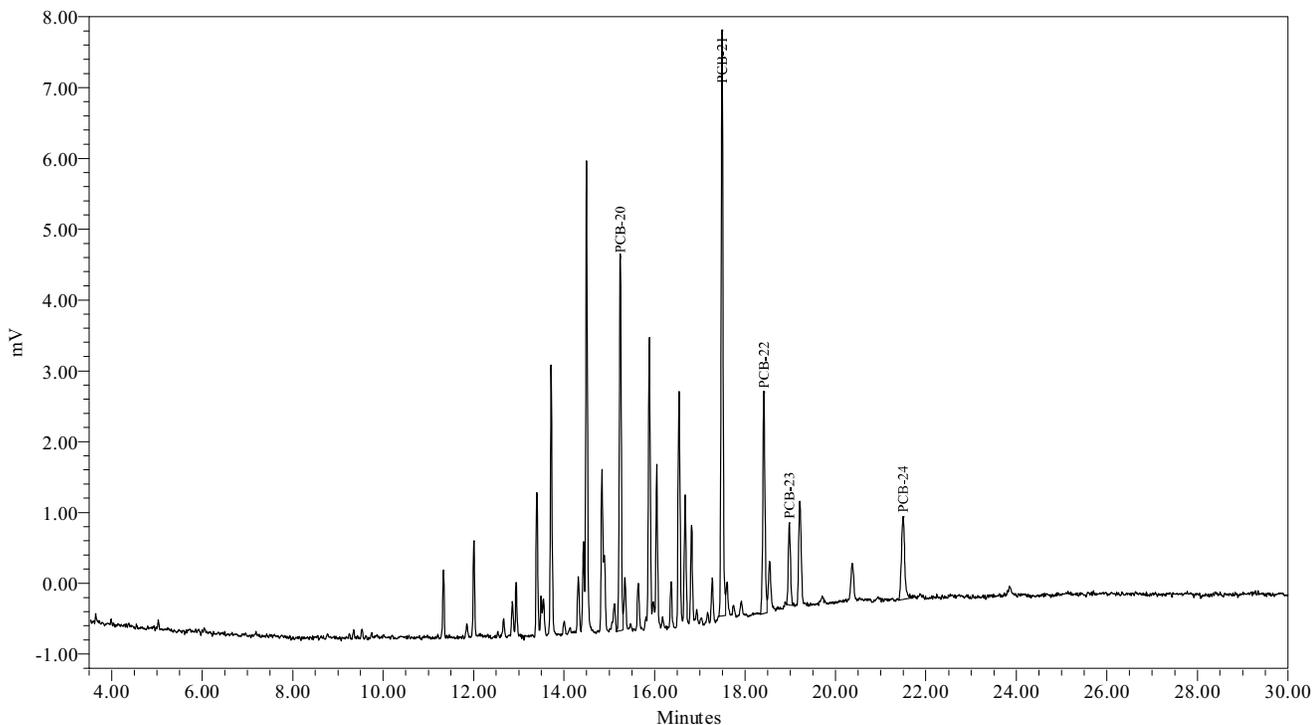
Sample Name: 040760E Sample Amount: 1  
Sample ID: A1260 100 PPB Dilution: 1  
Date Acquired: 4/8/2009 7:00:40 AM EDT Extract Volume: 1  
Project Name: GC23B\_Apr\_2009 Date Processed: 4/8/2009 11:11:54 AM EDT  
Sample Set Name: GC23B\_LLCC\_040709 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: GC23B\_CCLL\_040709 Current Date: 5/10/2009  
Run Time: 30.0 Minutes Current Time: 9:48:04 AM US/Eastern  
Report Name: CalStd\_rpt\_plt LIMS File ID: GC23B-21-37

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)
1 PCB-20	15.241	bV	16498
2 PCB-21	17.493	bV	25960
3 PCB-22	18.419	bV	10809
4 PCB-23	18.983	bb	3950
5 PCB-24	21.494	bV	5681

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL
1 A1254	16498	
2 A1254-17/18	16498	
3 A1260	62898	100.000
4 A1260-20	46400	100.000
5 A1260-23/24	53267	100.000



# Initial/Continuing Calibration Data (GC-23B)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Northeast Analytical, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC23B  
 GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

SDG NO: 09060293

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	DATE / TIME ANALYZED
Aroclor 1016	GC23B-21-39	CS160407A	ICV	47.6	50	-4.80	04/08/2009 08:05:48
Aroclor 1221	GC23B-21-40	CS210407A	ICV	54.6	50	9.19	04/08/2009 08:38:22
Aroclor 1232	GC23B-21-41	CS320407A	ICV	49.2	50	-1.61	04/08/2009 09:10:58
Aroclor 1242	GC23B-21-42	CS420407A	ICV	45.8	50	-8.40	04/08/2009 09:43:33
Aroclor 1248	GC23B-21-43	CS480407A	ICV	48.4	50	-3.22	04/08/2009 10:16:08
Aroclor 1254	GC23B-21-44	CS540407A	ICV	49.7	50	-0.653	04/08/2009 10:48:43
Aroclor 1260	GC23B-21-45	CS600407A	ICV	49.4	50	-1.24	04/08/2009 11:21:18
Aroclor 1016	GC23B-89-3	CS160615B	CCV	45.2	50	-9.58	06/15/2009 15:08:05
Aroclor 1221	GC23B-89-4	CS210615A	CCV	47.1	50	-5.74	06/15/2009 15:40:39
Aroclor 1232	GC23B-89-5	CS320615A	CCV	47.7	50	-4.57	06/15/2009 16:13:14
Aroclor 1242	GC23B-89-6	CS420615A	CCV	45.2	50	-9.53	06/15/2009 16:45:48
Aroclor 1248	GC23B-89-7	CS480615A	CCV	52.7	50	5.47	06/15/2009 17:18:22
Aroclor 1254	GC23B-89-8	CS540615A	CCV	51.0	50	2.07	06/15/2009 17:50:55
Aroclor 1260	GC23B-89-9	CS600615B	CCV	54.2	50	8.42	06/15/2009 18:23:29
Aroclor 1016	GC23B-100-4	CS160624A	CCV	45.4	50	-9.11	06/24/2009 08:25:40
Aroclor 1221	GC23B-100-10	CS210624A	CCV	47.6	50	-4.84	06/24/2009 11:58:14

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Northeast Analytical, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC23B  
 GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

SGD NO: 09060293

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC23B-21-39	CS160407A	ICV	1	7.96	7.88	8.04
			ICV	2	8.33	8.25	8.41
			ICV	3	8.95	8.87	9.03
			ICV	4	9.15	9.07	9.23
			ICV	5	9.29	9.21	9.37
Aroclor 1221	GC23B-21-40	CS210407A	ICV	1	5.26	5.18	5.34
			ICV	2	6.34	6.26	6.42
			ICV	3	6.85	6.77	6.93
			ICV	4	7.02	6.94	7.10
			ICV	5	7.14	7.06	7.22
Aroclor 1232	GC23B-21-41	CS320407A	ICV	1	7.14	7.06	7.22
			ICV	2	8.33	8.25	8.41
			ICV	3	8.95	8.87	9.03
			ICV	4	9.15	9.07	9.23
			ICV	5	9.29	9.21	9.37
Aroclor 1242	GC23B-21-42	CS420407A	ICV	1	7.96	7.88	8.04
			ICV	2	8.33	8.25	8.41
			ICV	3	8.95	8.87	9.03
			ICV	4	9.15	9.07	9.23
			ICV	5	9.29	9.21	9.37
Aroclor 1248	GC23B-21-43	CS480407A	ICV	1	9.85	9.77	9.93
			ICV	2	10.50	10.42	10.58
			ICV	3	11.14	11.06	11.22
			ICV	4	11.30	11.22	11.38
			ICV	5	11.70	11.62	11.78
Aroclor 1254	GC23B-21-44	CS540407A	ICV	1	12.01	11.93	12.09
			ICV	2	12.66	12.58	12.74
			ICV	3	12.94	12.86	13.02
			ICV	4	14.42	14.34	14.50
			ICV	5	15.24	15.16	15.32
Aroclor 1260	GC23B-21-45	CS600407A	ICV	1	15.24	15.16	15.32
			ICV	2	17.49	17.41	17.57
			ICV	3	18.42	18.34	18.50
			ICV	4	18.98	18.90	19.06
			ICV	5	21.50	21.42	21.58

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Northeast Analytical, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC23B  
 GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

SGD NO: 09060293

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC23B-89-3	CS160615B	CCV	1	7.95	7.88	8.04
			CCV	2	8.32	8.25	8.41
			CCV	3	8.93	8.87	9.03
			CCV	4	9.13	9.07	9.23
			CCV	5	9.27	9.21	9.37
	GC23B-100-4	CS160624A	CCV	1	7.95	7.88	8.04
			CCV	2	8.32	8.25	8.41
			CCV	3	8.93	8.87	9.03
			CCV	4	9.13	9.07	9.23
			CCV	5	9.27	9.21	9.37
Aroclor 1221	GC23B-89-4	CS210615A	CCV	1	5.25	5.18	5.34
			CCV	2	6.34	6.26	6.42
			CCV	3	6.83	6.77	6.93
			CCV	4	7.01	6.94	7.10
			CCV	5	7.12	7.06	7.22
	GC23B-100-10	CS210624A	CCV	1	5.25	5.18	5.34
			CCV	2	6.33	6.26	6.42
			CCV	3	6.83	6.77	6.93
			CCV	4	7.01	6.94	7.10
			CCV	5	7.12	7.06	7.22
Aroclor 1232	GC23B-89-5	CS320615A	CCV	1	7.12	7.06	7.22
			CCV	2	8.32	8.25	8.41
			CCV	3	8.93	8.87	9.03
			CCV	4	9.14	9.07	9.23
			CCV	5	9.27	9.21	9.37
Aroclor 1242	GC23B-89-6	CS420615A	CCV	1	7.95	7.88	8.04
			CCV	2	8.32	8.25	8.41
			CCV	3	8.93	8.87	9.03
			CCV	4	9.13	9.07	9.23
			CCV	5	9.27	9.21	9.37
Aroclor 1248	GC23B-89-7	CS480615A	CCV	1	9.83	9.77	9.93
			CCV	2	10.48	10.42	10.58
			CCV	3	11.11	11.06	11.22
			CCV	4	11.27	11.22	11.38
			CCV	5	11.67	11.62	11.78
Aroclor 1254	GC23B-89-8	CS540615A	CCV	1	11.98	11.93	12.09
			CCV	2	12.64	12.58	12.74
			CCV	3	12.92	12.86	13.02

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Northeast Analytical, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC23B  
 GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm

SGD NO: 09060293

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1254			CCV	4	14.39	14.34	14.50
			CCV	5	15.20	15.16	15.32
Aroclor 1260	GC23B-89-9	CS600615B	CCV	1	15.20	15.16	15.32
			CCV	2	17.45	17.41	17.57
			CCV	3	18.37	18.34	18.50
			CCV	4	18.93	18.90	19.06
			CCV	5	21.42	21.42	21.58

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification



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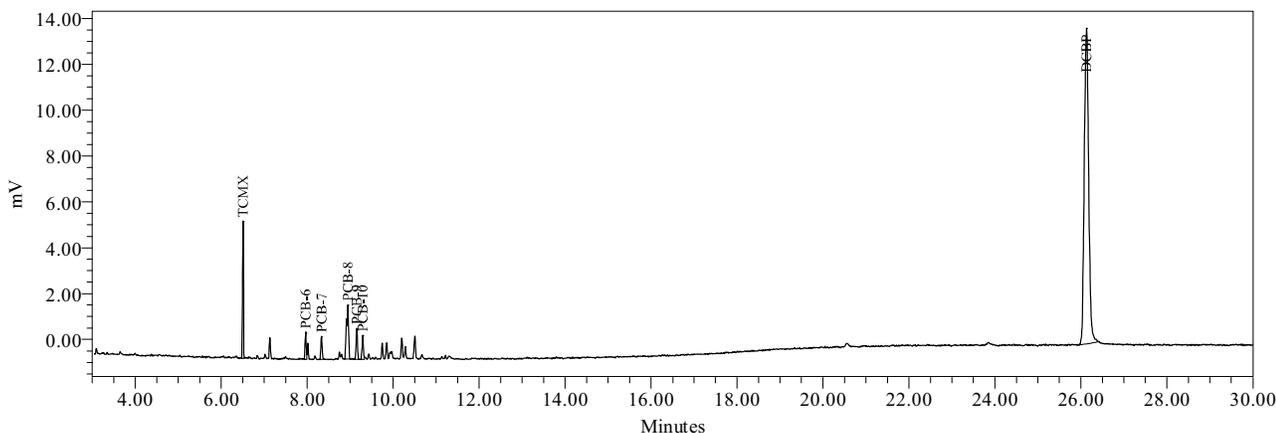
Sample Name:	CS160407A	Sample Amount:	1
Sample ID:	A1016 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 8:05:48 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 12:16:09 PM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	12:39:24 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-21-39

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.504	bb	9297	5.042	100.8	
2 PCB-6	7.963	bV	2069			
3 PCB-7	8.334	bb	2157			
4 PCB-8	8.947	bb	7350			
5 PCB-9	9.152	vb	2849			
6 PCB-10	9.291	bV	2108			
7 DCBP	26.129	bb	98105	49.698		99.4

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1016	16533	47.602	-4.80	X	
2 A1232	14464	89.396	78.79		
3 A1232-8/9	4265	57.287	14.57		
4 A1242	16533	57.704	15.41		





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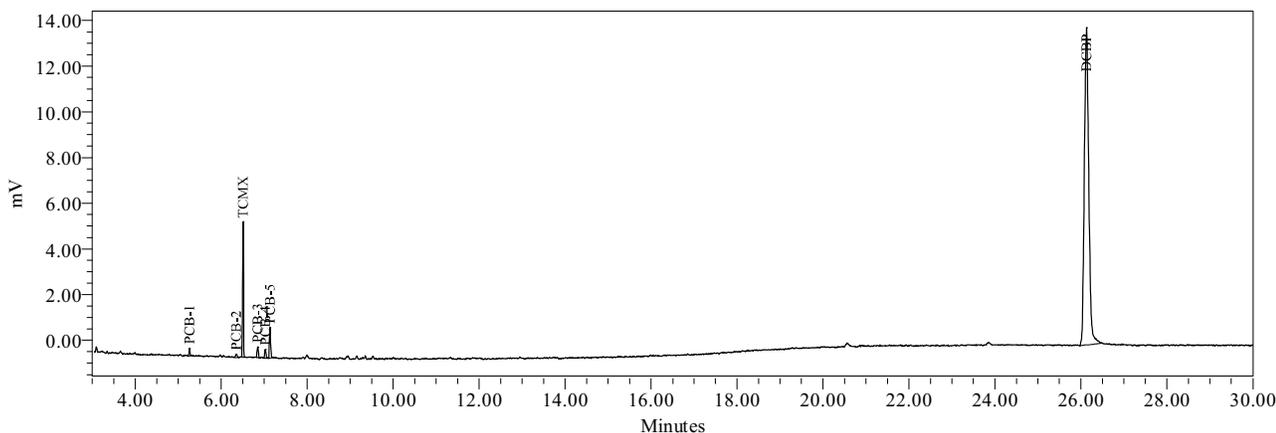
Sample Name:	CS210407A	Sample Amount:	1
Sample ID:	A1221 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 8:38:22 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 12:18:22 PM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	12:39:35 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-21-40

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 PCB-1	5.261	bb	542			
2 PCB-2	6.344	bb	362			
3 TCMX	6.506	bb	9166	4.969	99.4	
4 PCB-3	6.848	bb	948			
5 PCB-4	7.024	bb	662			
6 PCB-5	7.136	bb	2360			
7 DCBP	26.130	bb	98392	49.848		99.7

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1221	4874	54.593	9.19	X	
2 A1221-2	4512	54.088	8.18		
3 A1221-4	4212	54.829	9.66		
4 A1221-5	2514	54.440	8.88		
5 A1232	2360	13.504	-72.99		
6 A1232-8/9	2360	30.978	-38.04		





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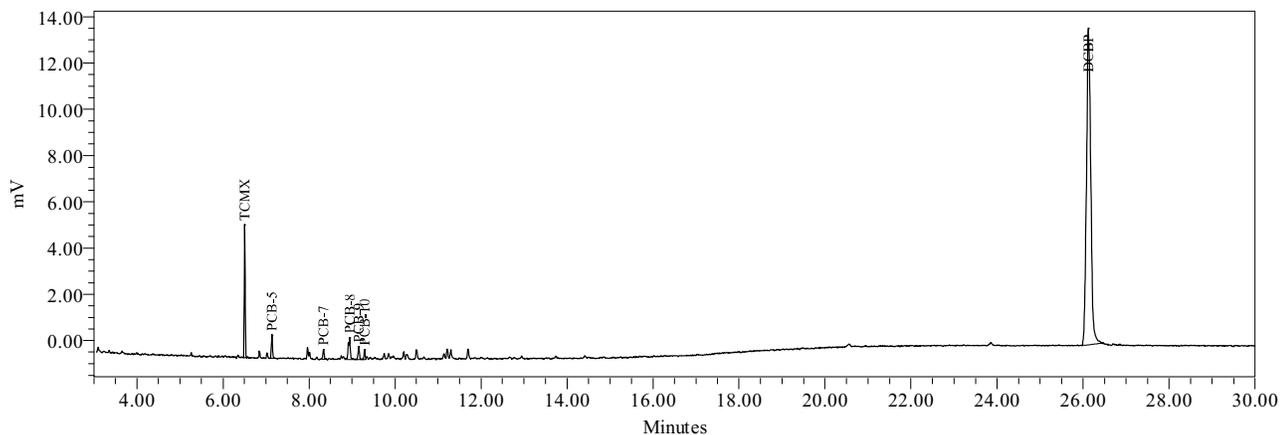
Sample Name:	CS320407A	Sample Amount:	1
Sample ID:	A1232 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 9:10:58 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/9/2009 4:48:47 AM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/11/2009
Run Time:	30.0 Minutes	Current Time:	11:56:13 AM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-21-41

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.506	bb	8945	4.846	96.9	
2 PCB-5	7.135	vV	1841			
3 PCB-7	8.335	vb	906			
4 PCB-8	8.947	VV	3187			
5 PCB-9	9.153	bb	1210			
6 PCB-10	9.291	bV	909			
7 DCBP	26.127	bb	95383	48.274		96.5

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1016	6211	17.578	-64.84		
2 A1221	1841	20.169	-59.66		
3 A1221-2	1841	21.760	-56.48		
4 A1221-4	1841	23.834	-52.33		
5 A1232	8052	49.194	-1.61	X	
6 A1232-8/9	3656	48.876	-2.25		
7 A1242	6211	20.862	-58.28		





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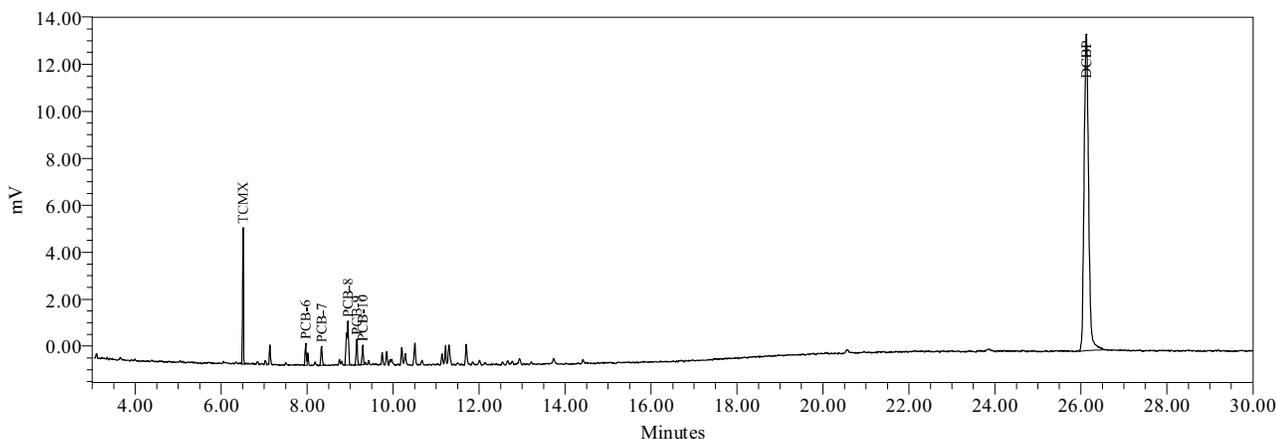
Sample Name:	CS420407A	Sample Amount:	1
Sample ID:	A1242 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 9:43:33 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 12:27:08 PM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	12:39:45 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-21-42

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.505	bb	9071	4.917	98.3	
2 PCB-6	7.963	bV	1693			
3 PCB-7	8.335	bV	1806			
4 PCB-8	8.946	bb	5826			
5 PCB-9	9.153	bV	2295			
6 PCB-10	9.291	bV	1578			
7 DCBP	26.124	bb	97425	49.342		98.7

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1016	13198	37.901	-24.20		
2 A1232	11505	70.844	41.69		
3 A1232-8/9	3384	45.117	-9.77		
4 A1242	13198	45.800	-8.40	X	





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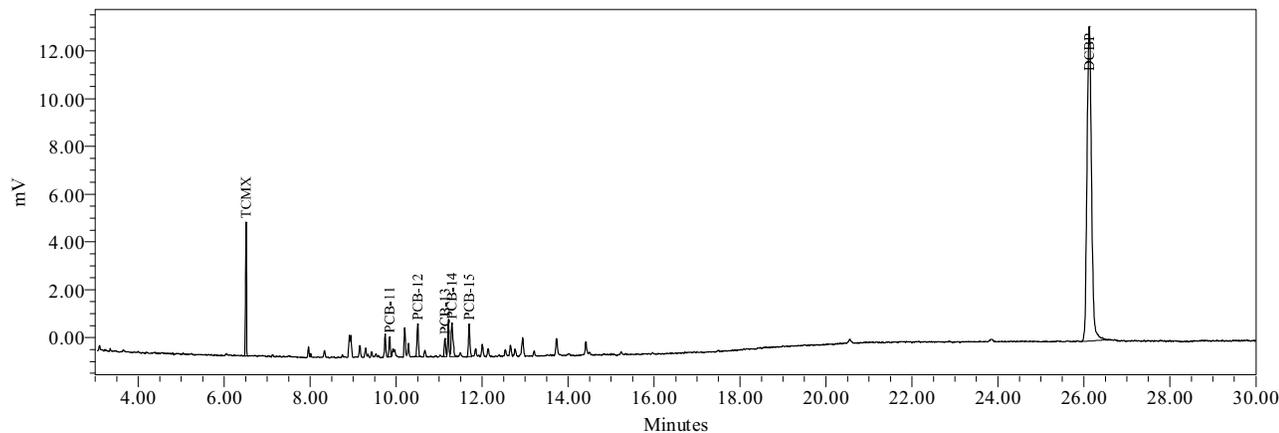
Sample Name:	CS480407A	Sample Amount:	1
Sample ID:	A1248 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 10:16:08 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 12:31:03 PM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	12:39:53 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-21-43

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.504	bb	8829	4.782	95.6	
2 PCB-11	9.849	bV	1743			
3 PCB-12	10.499	bb	3193			
4 PCB-13	11.135	bV	1664			
5 PCB-14	11.296	Vb	4087			
6 PCB-15	11.699	bv	3284			
7 DCBP	26.122	bb	95975	48.584		97.2

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1248	13972	48.388	-3.22	X	
2 A1248-11/15	8945	47.799	-4.40		
3 A1248-14/15	6601	49.056	-1.89		





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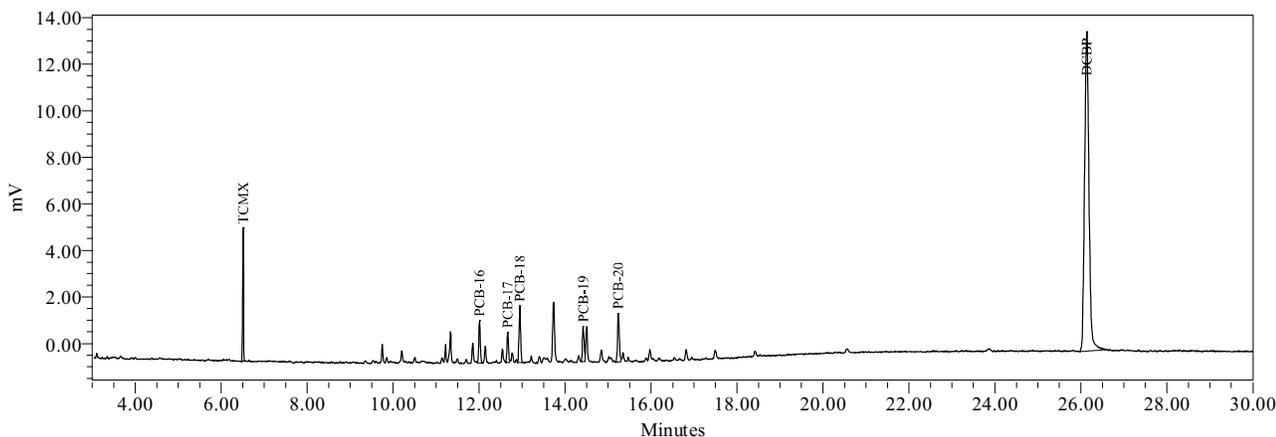
Sample Name:	CS540407A	Sample Amount:	1
Sample ID:	A1254 50 PPB	Dilution:	1
Date Acquired:	4/8/2009 10:48:43 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 12:32:51 PM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	12:39:56 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-21-44

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.507	bb	9005	4.880	97.6	
2 PCB-16	12.007	bb	4233			
3 PCB-17	12.664	bV	3066			
4 PCB-18	12.944	bb	5954			
5 PCB-19	14.423	bV	4162			
6 PCB-20	15.239	bV	6402			
7 DCBP	26.137	bb	97600	49.434		98.9

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1254	23816	49.673	-0.65	X	
2 A1254-17/18	14797	50.771	1.54		
3 A1254-19/20	13253	48.819	-2.36		
4 A1254-20	17415	49.168	-1.66		
5 A1260	6402	9.246	-81.51		
6 A1260-23/24	6402	11.275	-77.45		





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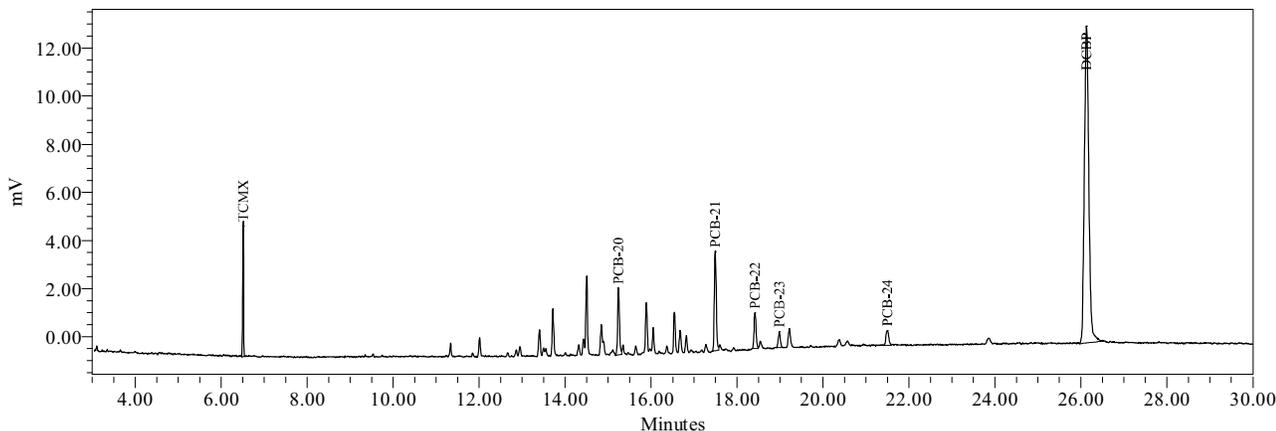
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Sample ID:	A1260 50 PPB	Dilution:	1
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Project Name:	GC23B_Apr_2009	Date Processed:	4/8/2009 12:34:49 PM EDT
Sample Set Name:	GC23B_LLCC_040709	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	GC23B_CCLL_040709	Current Date:	5/10/2009
Run Time:	30.0 Minutes	Current Time:	12:40:03 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-21-45

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.508	bb	8820	4.777	95.5	
2 PCB-20	15.242	bV	8615			
3 PCB-21	17.495	bV	12637			
4 PCB-22	18.419	bV	4963			
5 PCB-23	18.984	bb	2318			
6 PCB-24	21.498	bV	2938			
7 DCBP	26.128	bb	94563	47.845		95.7

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1254	8615	18.190	-63.62		
2 A1254-17/18	8615	29.771	-40.46		
3 A1260	31471	49.382	-1.24	X	
4 A1260-20	22856	48.650	-2.70		
5 A1260-23/24	26215	48.618	-2.76		





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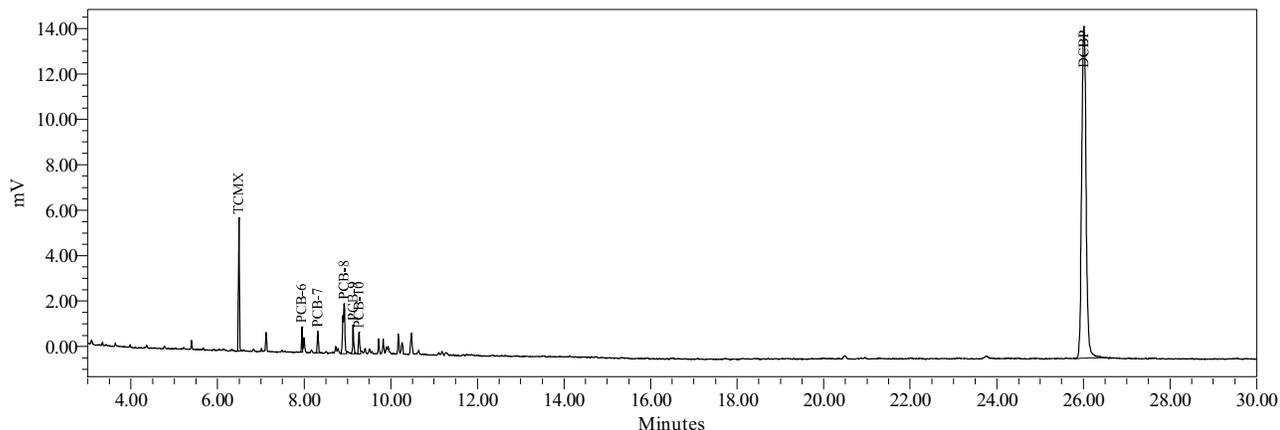
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Project Name:	GC23B_Apr_2009	Date Processed:	6/15/2009 5:48:54 PM EDT
Sample Set Name:	GC23B_CCV_061509a	User Name:	Jaime Frattellone (JaimeF)
Processing Method:	GC23B_CCLL_040709	Current Date:	6/16/2009
Run Time:	30.0 Minutes	Current Time:	2:11:44 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-89-3

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.493	bb	9176	4.975	99.5	
2 PCB-6	7.946	bV	1833			
3 PCB-7	8.315	bb	1983			
4 PCB-8	8.927	bV	7231			
5 PCB-9	9.132	Vv	2744			
6 PCB-10	9.269	VV	1919			
7 DCBP	26.011	bb	102863	52.187		104.4

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A 1016	15711	45.209	-9.58	X	
2 A 1232	13877	85.717	71.43		
3 A 1232-8/9	3902	52.275	4.55		
4 A 1242	15711	54.768	9.54		





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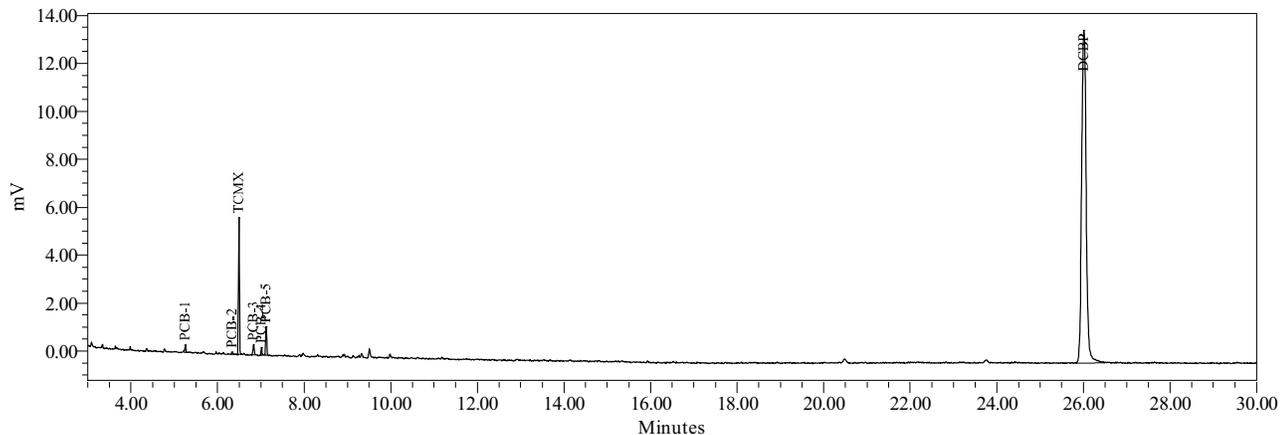
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Sample ID:	A1221 50 PPB	Dilution:	1
Date Acquired:	6/15/2009 3:40:39 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	6/15/2009 5:50:08 PM EDT
Sample Set Name:	GC23B_CCV_061509a	User Name:	Jaime Frattellone (JaimeF)
Processing Method:	GC23B_CCLL_040709	Current Date:	6/16/2009
Run Time:	30.0 Minutes	Current Time:	2:11:51 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-89-4

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 PCB-1	5.253	Vb	460			
2 PCB-2	6.337	bb	247			
3 TCMX	6.493	bb	8923	4.834	96.7	
4 PCB-3	6.832	bb	855			
5 PCB-4	7.010	bv	535			
6 PCB-5	7.121	bb	2120			
7 DCBP	26.009	bb	100901	51.161		102.3

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A 1221	4216	47.131	-5.74	X	
2 A 1221-2	3969	47.515	-4.97		
3 A 1221-4	3682	47.894	-4.21		
4 A 1221-5	2097	45.176	-9.65		
5 A 1232	2120	11.995	-76.01		
6 A 1232-8/9	2120	27.654	-44.69		





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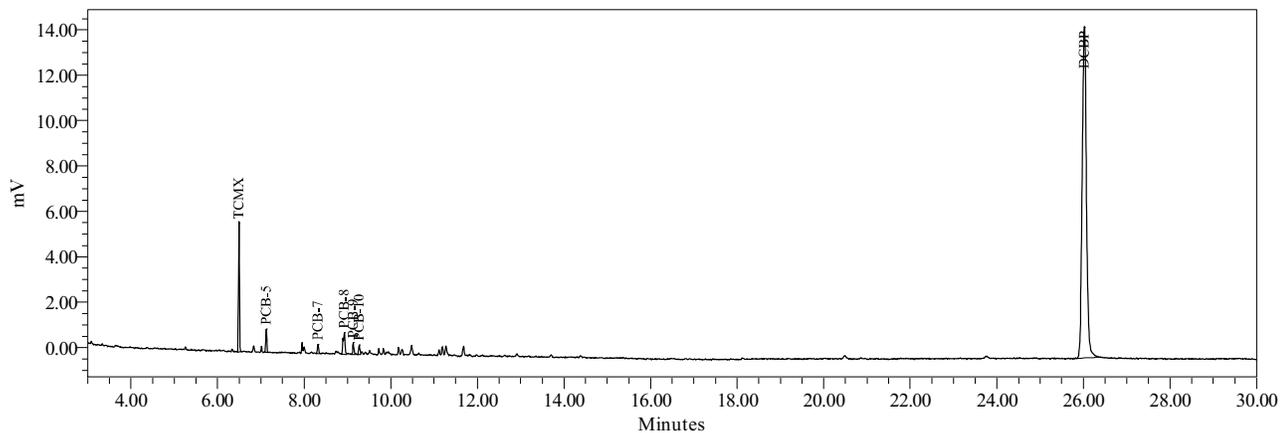
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Sample ID:	A1232 50 PPB	Dilution:	1
Date Acquired:	6/15/2009 4:13:14 PM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	6/15/2009 5:51:16 PM EDT
Sample Set Name:	GC23B_CCV_061509a	User Name:	Jaime Frattellone (JaimeF)
Processing Method:	GC23B_CCLL_040709	Current Date:	6/16/2009
Run Time:	30.0 Minutes	Current Time:	2:11:54 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-89-5

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.494	bb	8945	4.846	96.9	
2 PCB-5	7.123	bb	1770			
3 PCB-7	8.320	BB	888			
4 PCB-8	8.930	bV	3035			
5 PCB-9	9.135	vV	1218			
6 PCB-10	9.273	BV	905			
7 DCBP	26.019	bb	99508	50.432		100.9

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A 1016	6046	17.098	-65.80		
2 A 1221	1770	19.366	-61.27		
3 A 1221-2	1770	20.904	-58.19		
4 A 1221-4	1770	22.909	-54.18		
5 A 1232	7816	47.714	-4.57	X	
6 A 1232-8/9	3563	47.593	-4.81		
7 A 1242	6046	20.272	-59.46		





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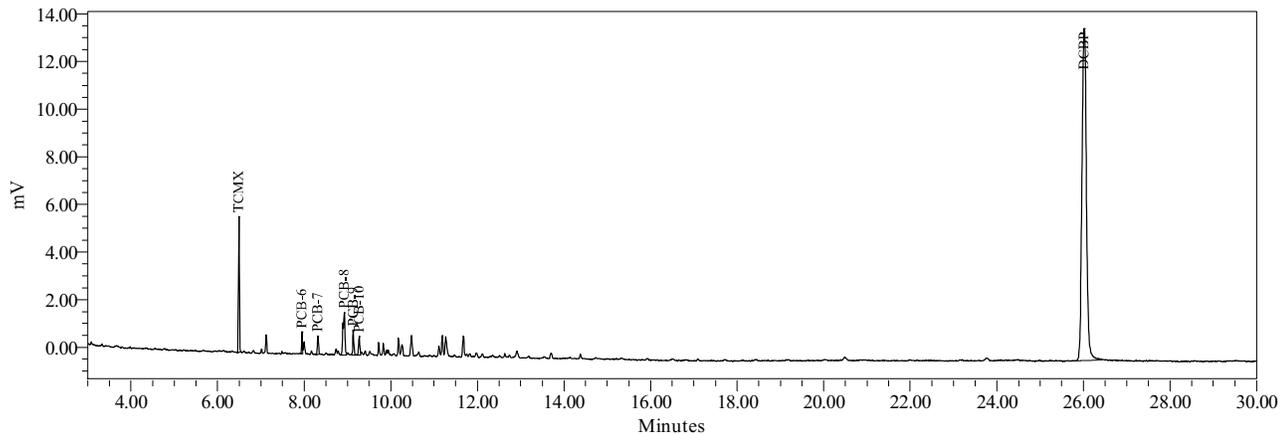
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Sample ID:	A1242 50 PPB	Dilution:	1
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Project Name:	GC23B_Apr_2009	Date Processed:	6/15/2009 5:52:47 PM EDT
Sample Set Name:	GC23B_CCV_061509a	User Name:	Jaime Frattellone (JaimeF)
Processing Method:	GC23B_CCLL_040709	Current Date:	6/16/2009
Run Time:	30.0 Minutes	Current Time:	2:11:56 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-89-6

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.493	bb	8867	4.803	96.1	
2 PCB-6	7.949	bV	1536			
3 PCB-7	8.317	BB	1725			
4 PCB-8	8.929	bV	5909			
5 PCB-9	9.134	vV	2297			
6 PCB-10	9.272	BV	1573			
7 DCBP	26.015	bb	100214	50.802		101.6

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A 1016	13040	37.442	-25.12		
2 A 1232	11504	70.839	41.68		
3 A 1232-8/9	3298	43.935	-12.13		
4 A 1242	13040	45.237	-9.53	X	





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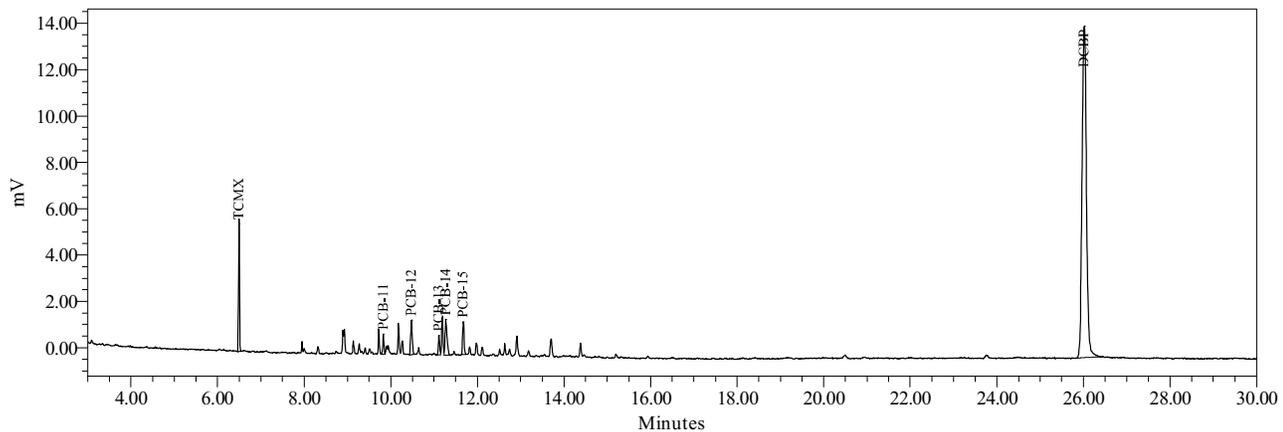
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Sample Set Name:	GC23B_CCV_061509a	User Name:	Jaime Frattellone (JaimeF)
Processing Method:	GC23B_CCLL_040709	Current Date:	6/16/2009
Run Time:	30.0 Minutes	Current Time:	2:11:58 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-89-7

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.495	bb	9046	4.903	98.1	
2 PCB-11	9.829	BV	1723			
3 PCB-12	10.477	bb	3610			
4 PCB-13	11.113	bV	1907			
5 PCB-14	11.273	Vb	4597			
6 PCB-15	11.674	bV	3363			
7 DCBP	26.016	bb	100857	51.138		102.3

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A 1248	15200	52.736	5.47	X	
2 A 1248-11/15	10114	54.175	8.35		
3 A 1248-14/15	7240	53.920	7.84		





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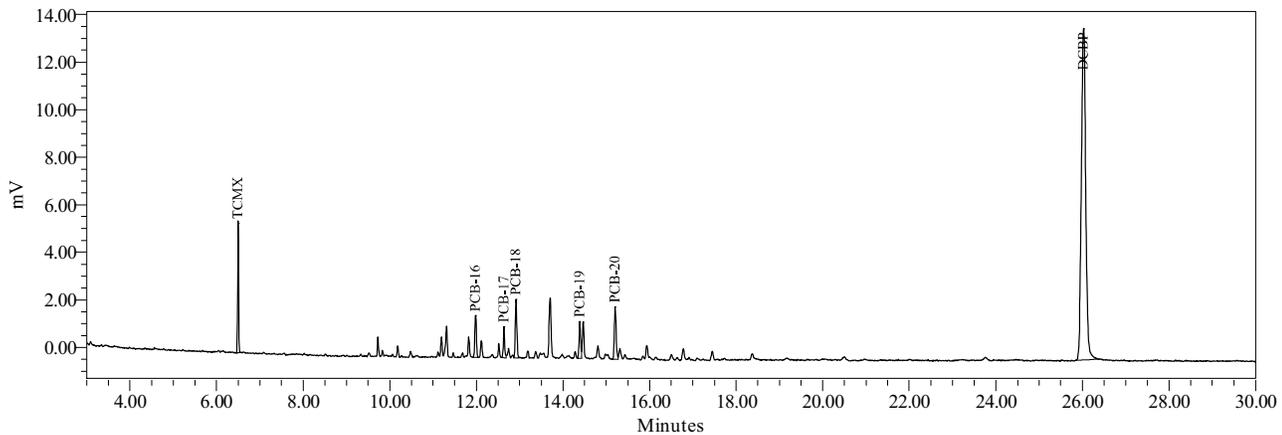
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Project Name:	GC23B_Apr_2009	Date Processed:	6/15/2009 6:40:34 PM EDT
Sample Set Name:	GC23B_CCV_061509a	User Name:	Jaime Frattellone (JaimeF)
Processing Method:	GC23B_CCLL_040709	Current Date:	6/16/2009
Run Time:	30.0 Minutes	Current Time:	2:12:00 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-89-8

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.498	bb	8771	4.750	95.0	
2 PCB-16	11.982	vv	4200			
3 PCB-17	12.637	Vv	3245			
4 PCB-18	12.917	VV	6160			
5 PCB-19	14.389	VV	4225			
6 PCB-20	15.204	bV	6645			
7 DCBP	26.024	bb	98317	49.809		99.6

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A 1254	24475	51.037	2.07	X	
2 A 1254-17/18	15069	51.695	3.39		
3 A 1254-19/20	13605	50.117	0.23		
4 A 1254-20	17830	50.334	0.67		
5 A 1260	6645	9.634	-80.73		
6 A 1260-23/24	6645	11.733	-76.53		





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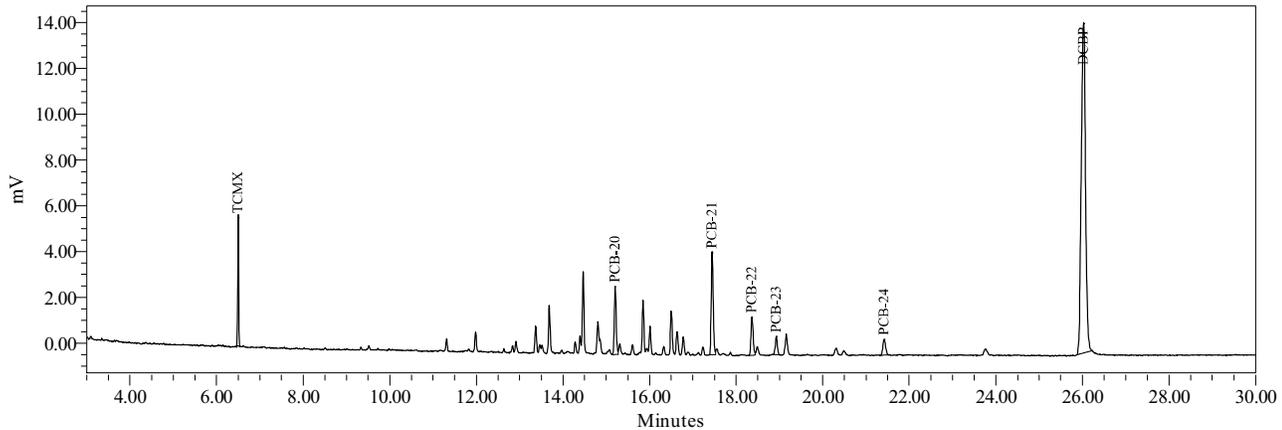
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Project Name:	GC23B_Apr_2009	Date Processed:	6/15/2009 11:20:18 PM EDT
Sample Set Name:	GC23B_CCV_061509a	User Name:	Jaime Frattellone (JaimeF)
Processing Method:	GC23B_CCLL_040709	Current Date:	6/16/2009
Run Time:	30.0 Minutes	Current Time:	2:12:02 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-89-9

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.499	bb	8936	4.842	96.8	
2 PCB-20	15.205	bV	9246			
3 PCB-21	17.448	bV	13779			
4 PCB-22	18.366	bV	5765			
5 PCB-23	18.926	bb	2618			
6 PCB-24	21.422	bb	3077			
7 DCBP	26.025	bb	98350	49.827		99.7

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A 1254	9246	19.497	-61.01		
2 A 1254-17/18	9246	31.915	-36.17		
3 A 1260	34486	54.208	8.42	X	
4 A 1260-20	25240	53.842	7.68		
5 A 1260-23/24	28791	53.473	6.95		





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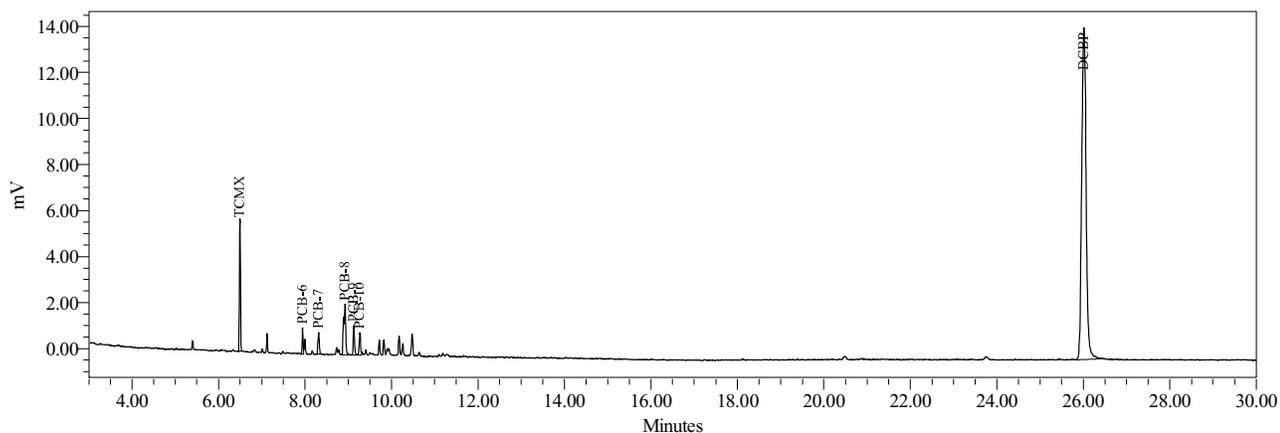
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Date Acquired:	6/24/2009 8:25:40 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	6/24/2009 9:04:24 AM EDT
Sample Set Name:	GC23B_CCV_062409	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23B_CCLL_040709	Current Date:	6/24/2009
Run Time:	30.0 Minutes	Current Time:	12:11:03 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-100-4

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.495	bb	9042	4.901	98.0	
2 PCB-6	7.947	bV	1933			
3 PCB-7	8.317	BB	1923			
4 PCB-8	8.928	bV	7223			
5 PCB-9	9.133	vv	2769			
6 PCB-10	9.271	vV	1944			
7 DCBP	26.014	bb	101794	51.628		103.3

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1016	15792	45.446	-9.11	X	
2 A1232	13859	85.604	71.21		
3 A1232-8/9	3867	51.795	3.59		
4 A1242	15792	55.058	10.12		





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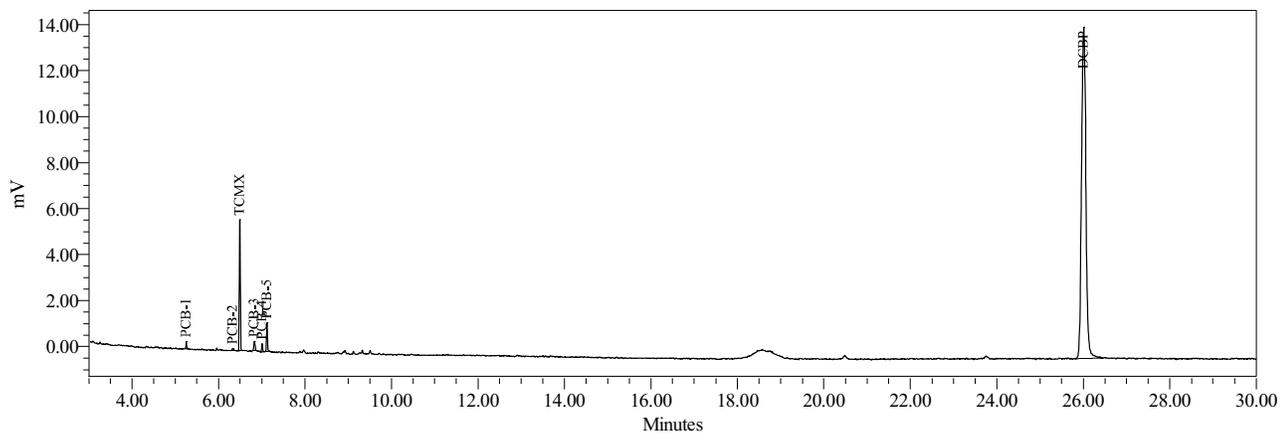
Sample Name:	CS210624A	Sample Amount:	1
Sample ID:	A1221 50 PPB	Dilution:	1
Date Acquired:	6/24/2009 11:58:14 AM EDT	Extract Volume:	1
Project Name:	GC23B_Apr_2009	Date Processed:	6/24/2009 12:33:02 PM EDT
Sample Set Name:	GC23B_W_062409A	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23B_CCLL_040709	Current Date:	6/24/2009
Run Time:	30.0 Minutes	Current Time:	12:36:42 PM US/Eastern
Report Name:	ChkStd_Rpt_Plt_50	LIMS File ID:	GC23B-100-10

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 PCB-1	5.253	bb	487			
2 PCB-2	6.333	bb	225			
3 TCMX	6.492	bb	8925	4.835	96.7	
4 PCB-3	6.832	bb	787			
5 PCB-4	7.010	bb	617			
6 PCB-5	7.120	bb	2139			
7 DCBP	26.009	bb	100771	51.093		102.2

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Cont. Check % Diff.	Report	Note
1 A1221	4256	47.580	-4.84	X	
2 A1221-2	4031	48.259	-3.48		
3 A1221-4	3639	47.338	-5.32		
4 A1221-5	2117	45.622	-8.76		
5 A1232	2139	12.118	-75.76		
6 A1232-8/9	2139	27.924	-44.15		



# QC Sample Raw Data

**1D-1  
PCB ANALYSIS DATA SHEET**

Laboratory Name: <u>Northeast Analytical, Inc.</u>	SDG No: <u>09060293</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>PBLK-82</u>
Matrix: <u>Water</u>	Client ID: <u>METHOD BLANK</u>
Sample wt(Dry)/vol: <u>1000 mL</u>	Lab Sample ID: <u>AM08528B</u>
Percent Moisture: <u>100</u>	Date Received: _____
Extraction: <u>Solid Phase Extraction - 1L</u>	Date Extracted: <u>06/24/2009</u>
Conc. Extract Volume: <u>5000 uL</u>	Date Analyzed: <u>06/24/2009</u>
Method: <u>NE273_01 (Quick TAT Aroclor Method)</u>	Dilution Factor: <u>1</u>
	Sulfur Cleanup: <u>YES</u>

**Column 1 Information:**

GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm  
 Injection Volume: 1.0 uL  
 Lab File ID: GC23B-100-7

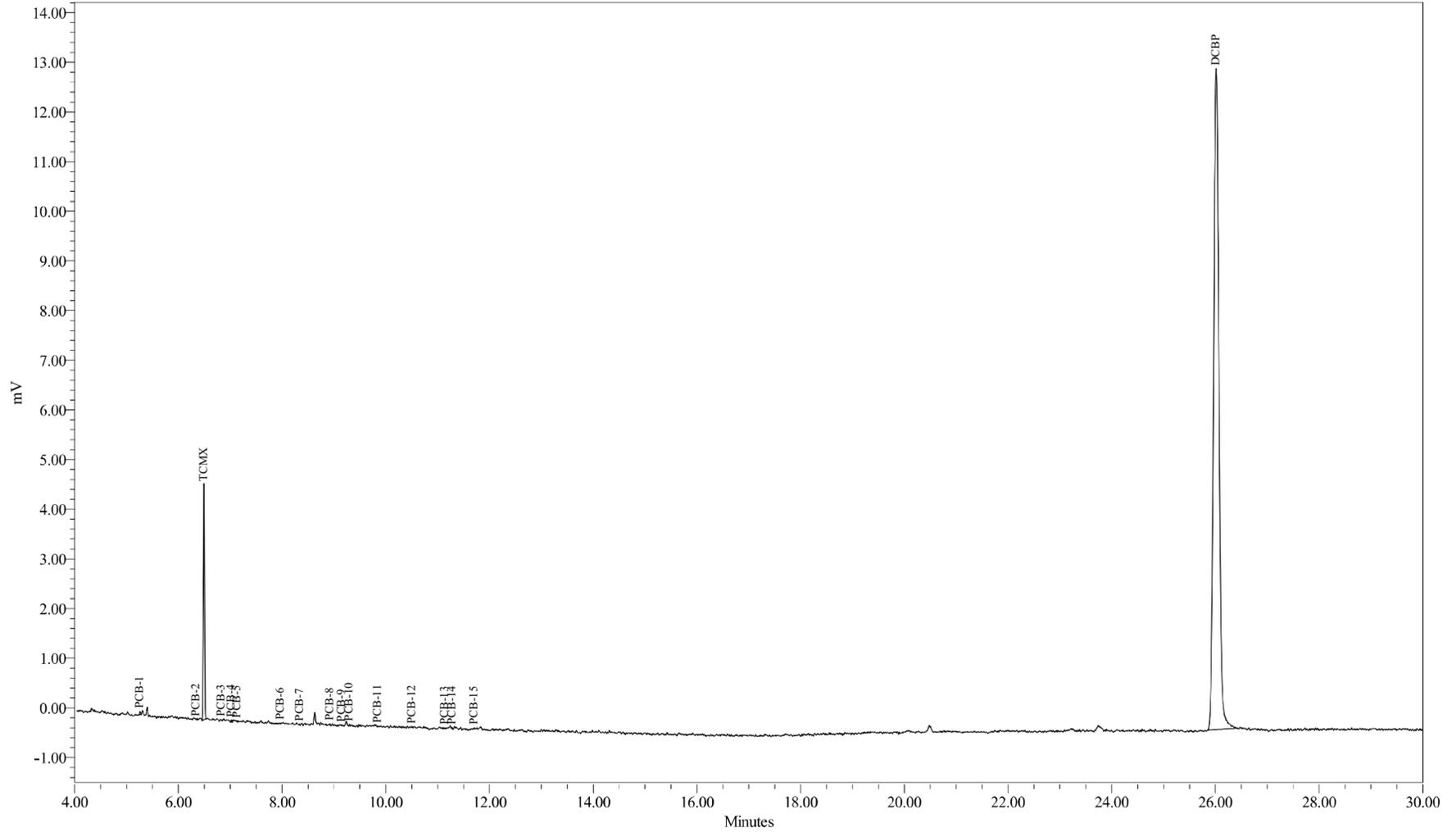
**Column 2 Information:**

GC Column: NA  
 Injection Volume: NA  
 Lab File ID: NA

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0250	U
1	11104-28-2	Aroclor 1221	0.0250	U
1	11141-16-5	Aroclor 1232	0.0250	U
1	53469-21-9	Aroclor 1242	0.0250	U
1	12672-29-6	Aroclor 1248	0.0250	U
1	11097-69-1	Aroclor 1254	0.0250	U
1	11096-82-5	Aroclor 1260	0.0250	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.



Sample Name: AM08528B  
Sample ID: METHOD BLANK  
Date Acquired: 6/24/2009 10:20:32 AM EDT

Sample Amount (L): 1.0000  
Dilution: 5  
Processing Method: GC23B\_CCLL\_040709  
LIMS File ID: GC23B-100-7

Sample Name: AM08528B

1 of 1



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name:	AM08528B	Sample Amount (L) :	1.0000
Sample ID:	METHOD BLANK	Dilution:	5
Date Acquired:	6/24/2009 10:20:32 AM EDT	Extract Volume:	5
Project Name:	GC23B_Apr_2009	Date Processed:	6/24/2009 10:54:45 AM EDT
Sample Set Name:	GC23B_W_062409	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23B_CCLL_040709	Current Date:	6/24/2009
Run Time:	30.0 Minutes	Current Time:	12:11:37 PM US/Eastern
Report Name:	H2O_rpt_LIMS2_ugL	LIMS File ID:	GC23B-100-7

Peak Results

	Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1	PCB-1	5.260	bb	82			
2	PCB-2	6.341	bb	1			
3	TCMX	6.491	bb	7507	4.045	80.6	
4	PCB-3	6.826	bb	4			
5	PCB-4	7.024	bb	24			
6	PCB-5	7.130	bb	7			
7	PCB-6	7.969	bb	5			
8	PCB-7	8.336	bb	9			
9	PCB-8	8.924	bb	28			
10	PCB-9	9.148	bb	9			
11	PCB-10	9.298	bb	37			
12	PCB-11	9.839	bb	7			
13	PCB-12	10.506	bb	20			
14	PCB-13	11.140	bb	17			
15	PCB-14	11.276	bb	20			
16	PCB-15	11.706	bb	30			
17	DCBP	26.014	bb	95042	48.096		95.8

Group Results

	Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Amount ug/L	PQL ug/L	MDL ug/L	Report	Note
1	A1016	88.0014			0.0250	0.00609	NR	
2	A1221	118.0859	0.614	0.00307	0.0250	0.00609	NR	
3	A1221-2	117.0695	0.897	0.00448	0.0250	0.00609	NR	
4	A1221-4	93.8482	0.996	0.00498	0.0250	0.00609	NR	
5	A1221-5	111.5591	1.058	0.00529	0.0250	0.00609	NR	
6	A1232	89.6817			0.0250	0.00609	NR	
7	A1232-8/9	52.6394			0.0250	0.00609	NR	
8	A1242	88.0014			0.0250	0.00609	NR	

Group Results

	Group Name	Group Area (uV*sec)	SolutionConc. ng/mL	Amount ug/L	PQL ug/L	MDL ug/L	Report	Note
9	A1248	94.5072			0.0250	0.00609	NR	
10	A1248-11/15	57.2501			0.0250	0.00609	NR	
11	A1248-14/15	44.3380			0.0250	0.00609	NR	

**1D-1  
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09060293</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>LCS-82</u>
Matrix:	<u>Water</u>	Client ID:	<u>LAB CONTROL SPIKE</u>
Sample wt(Dry)/vol:	<u>1000 mL</u>	Lab Sample ID:	<u>AM08528L</u>
Percent Moisture:	<u>100</u>	Date Received:	<u></u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Extracted:	<u>06/24/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Analyzed:	<u>06/24/2009</u>
Method:	<u>NE273_01 (Quick TAT Aroclor Method)</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

**Column 1 Information:**

GC Column: J&W, NARROWBORE CAPILLARY, DB-1, 30M; ID: 0.25 mm  
 Injection Volume: 1.0 uL  
 Lab File ID: GC23B-100-8

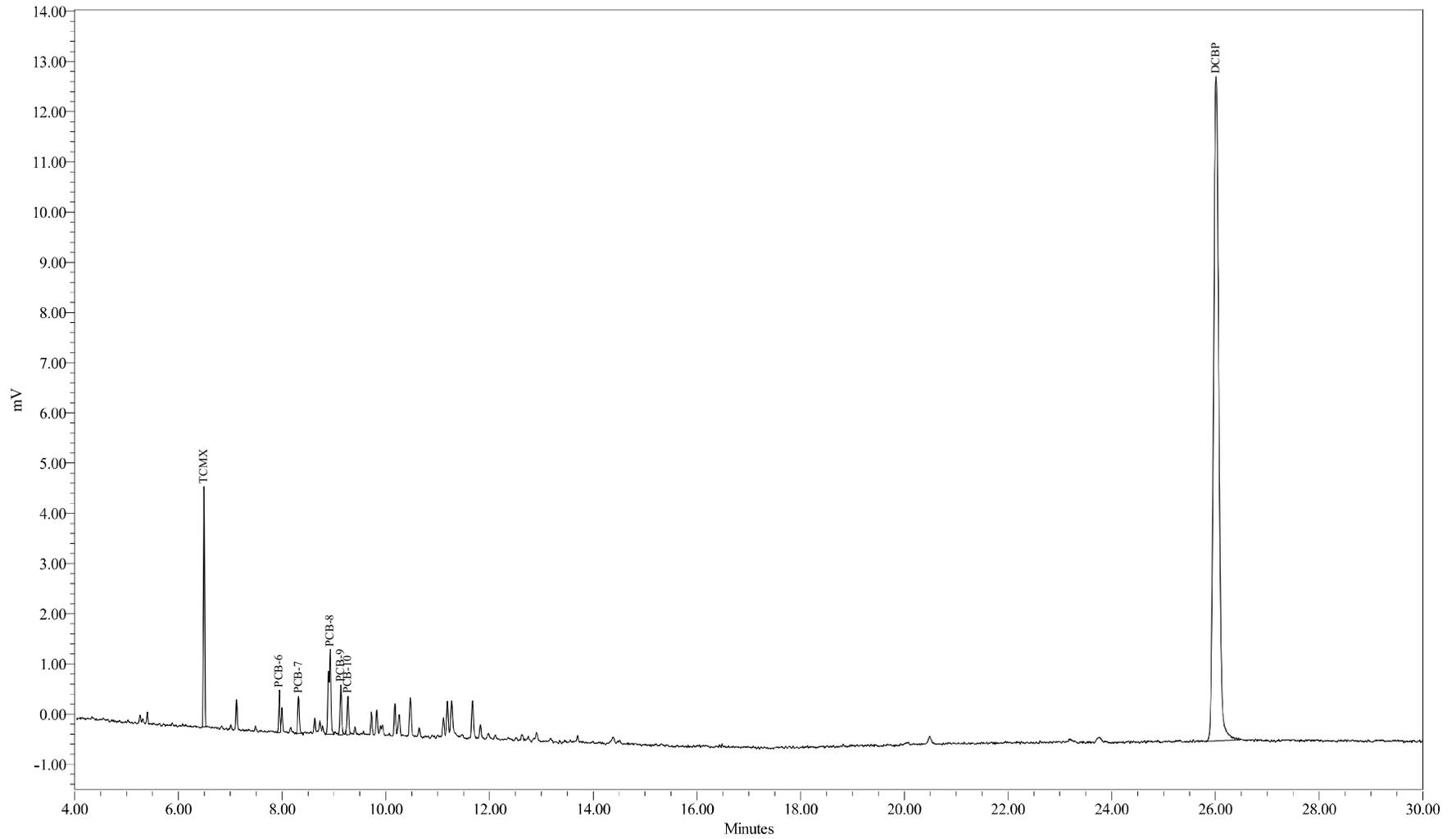
**Column 2 Information:**

GC Column: NA  
 Injection Volume: NA  
 Lab File ID: NA

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	Q
			UG/L	
1	12674-11-2	Aroclor 1016	0.0250	U
1	11104-28-2	Aroclor 1221	0.0250	U
1	11141-16-5	Aroclor 1232	0.0250	U
1	53469-21-9	Aroclor 1242	0.215	
1	12672-29-6	Aroclor 1248	0.0250	U
1	11097-69-1	Aroclor 1254	0.0250	U
1	11096-82-5	Aroclor 1260	0.0250	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.



Sample Name: AM08528L  
Sample ID: LAB CONTROL SPIKE  
Date Acquired: 6/24/2009 10:53:06 AM EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: GC23B\_CLL\_040709  
LIMS File ID: GC23B-100-8

Sample Name: AM08528L

1 of 1



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Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name:	AM08528L	Sample Amount (L) :	1.0000
Sample ID:	LAB CONTROL SPIKE	Dilution:	5
Date Acquired:	6/24/2009 10:53:06 AM EDT	Extract Volume:	5
Project Name:	GC23B_Apr_2009	Date Processed:	6/24/2009 11:35:05 AM EDT
Sample Set Name:	GC23B_W_062409	User Name:	Anthony Maiello (TonyM)
Processing Method:	GC23B_CCLL_040709	Current Date:	6/24/2009
Run Time:	30.0 Minutes	Current Time:	12:11:47 PM US/Eastern
Report Name:	H2O_rpt_LIMS2_ugL	LIMS File ID:	GC23B-100-8

Peak Results

Peak Name	Ret Time (min)	Integration Type	Area (uV*sec)	Solution Conc. ng/mL	TCMX % Rec.	DCBP % Rec.
1 TCMX	6.493	bb	7438	4.007	79.8	
2 PCB-6	7.946	bV	1439			
3 PCB-7	8.316	bb	1597			
4 PCB-8	8.927	bb	5592			
5 PCB-9	9.132	bv	2112			
6 PCB-10	9.270	vV	1647			
7 DCBP	26.012	bb	94274	47.694		95.0

Group Results

Group Name	Group Area (uV*sec)	Solution Conc. ng/mL	Amount ug/L	PQL ug/L	MDL ug/L	Report	Note
1 A1016	12385.8683	35.538	0.17769	0.0250	0.00609	NR	
2 A1232	10947.0345	67.344	0.33672	0.0250	0.00609	NR	
3 A1232-8/9	3243.5409	43.177	0.21589	0.0250	0.00609	NR	
4 A1242	12385.8683	42.901	0.21450	0.0250	0.00609	X	

# Certificates of Analysis



**CERTIFICATE OF ANALYSIS**  
**6/29/2009**  
**GENERAL ELECTRIC COMPANY**  
**300 GREAT OAKS OFFICE PARK**  
**SUITE 319**  
**ALBANY, NY 12203**  
**CONTACT: ROBERT GIBSON**



**CUSTOMER ID:** WFF-THIS-090624-AT001      **NEA ID:** AM08570      **NEA LRF:** 09060293-03  
**MATRIX:** WATER      **DATE SAMPLED:** 06/24/2009      **TIME:** 08:27  
**DATE RECEIVED:** 6/24/2009      **TIME:** 19:05      **PROJECT:** HUDSON RIVER RAMP  
**SAMPLED BY:** J. ROCHE      **LOCATION:** NY  
**CUSTOMER PO:** N/A      **LAB ELAP#:** 11078

<b>PARAMETER PERFORMED</b>	<b>RESULTS</b>	<b>PQL</b>	<b>UNITS</b>	<b>DATE ANALYZED</b>	<b>FLAGS</b>
<b>NE273_01 (Quick TAT Aroclor Method)</b>					
Aroclor 1016	ND	0.0260	ug/L	06/25/2009	U
Aroclor 1221	0.153	0.0260	ug/L	06/25/2009	PB
Aroclor 1232	ND	0.0260	ug/L	06/25/2009	U
Aroclor 1242	0.0164	0.0260	ug/L	06/25/2009	AD,J
Aroclor 1248	ND	0.0260	ug/L	06/25/2009	U
Aroclor 1254	ND	0.0260	ug/L	06/25/2009	U
Aroclor 1260	ND	0.0260	ug/L	06/25/2009	U
Total PCB Amount > Reporting Limit	0.1694				

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.  
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.  
J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

**AUTHORIZED SIGNATURE:**

William A. Kotas  
Sr. Laboratory Representative  
Robert E. Wagner  
Laboratory Director



**CERTIFICATE OF ANALYSIS**  
**6/29/2009**  
**GENERAL ELECTRIC COMPANY**  
**300 GREAT OAKS OFFICE PARK**  
**SUITE 319**  
**ALBANY, NY 12203**  
**CONTACT: ROBERT GIBSON**



**CUSTOMER ID:** WFF-TIDA-090624-AT001  
**MATRIX:** WATER  
**DATE RECEIVED:** 6/24/2009 **TIME:** 19:05  
**SAMPLED BY:** J. ROCHE  
**CUSTOMER PO:** N/A

**NEA ID:** AM08571 **NEA LRF:** 09060293-04  
**DATE SAMPLED:** 06/24/2009 **TIME:** 08:30  
**PROJECT:** HUDSON RIVER RAMP  
**LOCATION:** NY  
**LAB ELAP#:** 11078

<b>PARAMETER PERFORMED</b>	<b>RESULTS</b>	<b>PQL</b>	<b>UNITS</b>	<b>DATE ANALYZED</b>	<b>FLAGS</b>
<b>NE273_01 (Quick TAT Aroclor Method)</b>					
Aroclor 1016	ND	0.0250	ug/L	06/25/2009	U
Aroclor 1221	0.139	0.0250	ug/L	06/25/2009	PB
Aroclor 1232	ND	0.0250	ug/L	06/25/2009	U
Aroclor 1242	0.0144	0.0250	ug/L	06/25/2009	AD,J
Aroclor 1248	ND	0.0250	ug/L	06/25/2009	U
Aroclor 1254	ND	0.0250	ug/L	06/25/2009	U
Aroclor 1260	ND	0.0250	ug/L	06/25/2009	U
Total PCB Amount > Reporting Limit	0.1534				

Notes: ND (Not Detected). Denotes analyte not detected at a concentration greater than the PQL.  
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.  
J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

**AUTHORIZED SIGNATURE:**

William A. Kotas  
Sr. Laboratory Representative  
Robert E. Wagner  
Laboratory Director

PCB SAMPLE DATA SUMMARY PACKAGE FOR:

ANCHOR QUANTITATIVE ENVIRONMENTAL ANALYSIS, LLC  
305 WEST GRAND AVENUE  
MONTVALE, NEW JERSEY 07645

TOTAL PCB: GREEN BAY METHOD (NE207\_03.DOC)

DATE: June, 2009-B

LRF: 09060293

PROVIDED BY : NORTHEAST ANALYTICAL, INC.  
2190 TECHNOLOGY DRIVE  
SCHENECTADY, NEW YORK 12308  
518-346-4592



TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
CASE NARRATIVE .....	4
SAMPLE CHAIN OF CUSTODY .....	6
INTERNAL SAMPLE TRACKING RECORD .....	8
SURROGATE RECOVERY SUMMARY .....	11
LABORATORY CONTROL SPIKE SUMMARY .....	21
METHOD BLANK SUMMARY .....	23
SAMPLE ANALYSIS DATA .....	25
SAMPLE GC INJECTION LOG.....	78
STANDARDS SUMMARY TABLES .....	83
CALIBRATION COMPONENT SUMMARY TABLES .....	134
STANDARDS RAW DATA .....	138
QC SAMPLE RAW DATA .....	194
MDL STUDIES .....	214

# Case Narrative

June 29, 2009

CASE NARRATIVE

This data package (NEA SDG ID: 09060293) consists of 4 water samples received on 6/24/2009. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AM08568	WFF-LOC5-090624-AT001	6/24/2009 08:45
AM08569	WFF-SCHU-090624-AT001	6/24/2009 09:29
AM08572	WFF-WAFA-090624-AT001	6/24/2009 11:54
AM08573	WFF-WAFO-090624-AT001	6/24/2009 11:46

Sample Delivery and Receipt Conditions

- (1.) Northeast Analytical provided sample pickup service on 6/24/2009.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 5.2 degrees Celsius. Please see Chain of Custody for details.

Total PCBs by Green Bay Method (1L)

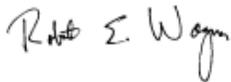
Analysis for Total PCBs was performed by NEA SOP NE207\_03. Samples were extracted by USEPA SW-846 Method 3535 Solid Phase Extraction. One-liter water samples were extracted by NEA SOP NE178\_03. The following technical and administrative items were noted for the analysis:

- (1.) Note: Hudson River Bias Correction applied (v09/23/2004) to GC Column peaks 5, 8, and 14 (which are comprised of congeners IUPAC 4 and 10; IUPAC 5 and 8; and IUPAC 15 and 18, respectively). Please see SOP NE207\_03 for details.
- (2.) Peak 15, Peak 16, Peak 21, Peak 22, Peak 5, Peak 57, Peak 63, Peak 65, Peak 66, and Peak 67 were observed in the Method Blank sample. All associated positive sample concentration results have been flagged (B) to denote the observed contamination.
- (3.) Sample AM08568 required additional analysis at a dilution for Peak 5 and Peak 10 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a NEA ID suffix of DL1. The concentration for Peak 5 and Peak 10 are included in the original analysis to provide the correct PCB total concentration.
- (4.) Sample AM08569 required additional analysis at a dilution for Peak 10 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a NEA ID suffix of DL1. The concentration for Peak 10 is included in the original analysis to provide the correct PCB total concentration

Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the PQL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



Robert E. Wagner  
Laboratory Director & Founder

# Sample Chain Of Custody



305 West Grand Avenue Morristown, NJ 07965 Ph: 201-930-9890

Client: General Electric Company

### ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC090624-ANEA-01

Sample Custodian: JR

Lab: NEA

COC Sample Number	Field Sample ID	QA/QC	MS	MSD	LD	Matrix	Date Collected	Time Collected	Media	# Containers	4degC	4degC							
											Aroclor PCBs EPA 508	CS PCBs NEZ07_08							
001	WFF-LOC5-090624-AT001	ENV	N	N	N	W	06/24/2009	08:45	W	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
002	WFF-SCHU-090624-AT001	ENV	N	N	N	W	06/24/2009	09:29	W	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
003	WFF-THIS-090624-AT001	ENV	N	N	N	W	06/24/2009	08:27	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
004	WFF-TIDA-090624-AT001	ENV	N	N	N	W	06/24/2009	08:30	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
005	WFF-WAFA-090624-AT001	ENV	N	N	N	W	06/24/2009	11:54	W	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
006	WFF-WAFO-090624-AT001	ENV	N	N	N	W	06/24/2009	11:46	W	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						

AM08568  
 AM08569  
 AM08570  
 AM08571  
 AM08572  
 AM08573

Comments: cooler temp = 5.2°C

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature: <i>JPR</i>	Signature: <i>Michael Conway</i>	Signature: <i>M. Conway</i>	Signature: <i>K. Scherby</i>	Signature:	Signature:
Print Name: John Rock	Print Name: Michael Conway	Print Name: M. Conway	Print Name: K. Scherby	Print Name:	Print Name:
Company: AG	Company: NEA	Company: NEA	Company: NEA	Company:	Company:
Date/Time: 6/24/09 14:15	Date/Time: 6/24/09 19:05	Date/Time: 6/24/09 19:05	Date/Time: 6/24/09 19:05	Date/Time:	Date/Time:

Date Printed: 6/24/2009

\* S = SEDIMENT, W= WATER \*\* T = Total, D = Dissolved, R = Residue  
 \*\*\* Air Tight Container; preserved at lab if not analyzed within 48 hrs.

# Internal Sample Tracking Record

AQUEOUS EXTRACTION LOG



**Prep Date: 06/24/2009**

**Batch ID: 8300**

Initial for required Clean Up Steps

Prep ID	NEA Sample ID	Alt Sample ID	Client	Extraction Type	Matrix	Sample Amount (g or mL)	TS %	Final Ext. Vol (mL)	Date Ext (MM/DD)	Extract Time On	Extract Time Off	Date Conc (MM/DD)	TJL		TJL	TJL	Cell / Unit #	Job	pH	Comments	
													Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)	Date Hg Shake (MM/DD)					
1	80292	CEBLK-15	AM08526B	GE	SPE-1L	Water	1000	NA	5	06/24	NA	NA	06/24	06/24	NA	06/24	06/24	L4	E CON1L	5	
2	80293	LCS-15	AM08526L	GE	SPE-1L	Water	1000	NA	5	06/24	NA	NA	06/24	06/24	NA	06/24	06/24	L5	E CON1L	5	
5	80418	09060293-01	AM08568	GE	SPE-1L	Water	1040	NA	5	06/24	NA	NA	06/24	06/24	NA	06/24	06/24	L8	E CON1L	5	
6	80419	09060293-02	AM08569	GE	SPE-1L	Water	960	NA	5	06/24	NA	NA	06/24	06/24	NA	06/24	06/24	I7	E CON1L	5	
7	80420	09060293-05	AM08572	GE	SPE-1L	Water	1030	NA	5	06/24	NA	NA	06/24	06/24	NA	06/24	06/24	L6	E CON1L	5	
8	80421	09060293-06	AM08573	GE	SPE-1L	Water	940	NA	5	06/24	NA	NA	06/24	06/24	NA	06/24	06/24	L5	E CON1L	5	

**Solvent, Surrogate, Spike, and Acid Information**

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	050815	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane (current)	CY224	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (SPE only)	090304F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone	041409B27P21C	200	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (current)	CY140	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone	042309B27P38A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane (current)	CY891	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only) current	090507A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk	H03N27	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol	49093	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SPIKED BY: Heather Gansky

WITNESSED BY: Tara Snay

SIGNATURE: *Hgansky*

SIGNATURE: *Tsnay*

# CONGENER AQUEOUS SCREEN SHEET

Batch ID: 8300

Prepared by: Kelly Ryan

NEA Sample ID	Alt Sample ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Dilution Sequence	Final Multiplier
CEBLK-15	AM08526B	Water	06/24/09	1000	5	NA		N/A	5x
LCS-15	AM08526L	Water	06/24/09	1000	5	NA		N/A	5x
09060293-01	AM08568	Water	06/24/09	1040	5	NA		N/A / 0.1-1	5x / 50x
09060293-02	AM08569	Water	06/24/09	960	5	NA		N/A / 0.1-1	5x / 50x
09060293-05	AM08572	Water	06/24/09	1030	5	NA		N/A	5x
09060293-06	AM08573	Water	06/24/09	940	5	NA		N/A	5x

**Solvent, Surrogate, Spike, and Acid Information**

B=Blank, L=Lab Control Spike, LD=Lab Control Spike Duplicate, S=Sample, D=Duplicate, M=Matrix Spike, K=Matrix Spike Duplicate

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	050815	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane (current)	CY224	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (SPE only)	090304F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone	041409B27P21C	200	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (current)	CY140	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone	042309B27P38A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane (current)	CY891	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only) current	090507A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk	H03N27	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol	49093	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

JR 6/25/09

COMMENTS: \_\_\_\_\_

# Surrogate % Recovery Summary

**PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY**

Lab Name: Northeast Analytical, Inc.

SDG No: 09060293

ELAP ID No: 11078

Init. Calib. Date(s): 06/22/2009,06/23/2009

GC Column (1): Agilent DB-1; 30 meter; 0.25 micron phase thickness

Instrument ID: GC16

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS:							
IUPAC 207: <u>40.92</u>							
	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)
01	ICAL 6.25 ng/mL	ICAL0622A	GC16-711-6	06/22/2009 16:51:40			
02	ICAL 12.5 ng/mL	ICAL0622B	GC16-711-7	06/22/2009 17:59:10			
03	ICAL 125 ng/mL	ICAL0622C	GC16-711-8	06/22/2009 19:06:43			
04	ICAL 314 ng/mL	ICAL0622D	GC16-711-9	06/22/2009 20:14:11			
05	ICAL 627 ng/mL	ICAL0622E	GC16-711-10	06/22/2009 21:21:42			
06	SUP CONG STD 200/5 ng/mL	SC0622A	GC16-711-12	06/22/2009 23:36:28			
07	Surr Std (207) 2.0 ng/mL	SS0622A	GC16-711-13	06/23/2009 00:43:46			
08	Surr Std (207) 20.0 ng/mL	SS0622B	GC16-711-14	06/23/2009 01:51:08			
09	HEXANE BLANK	090624B03	GC16-712-3	06/24/2009 09:03:13			
10	CCC Std 122 ng/mL	CCCS0624A	GC16-712-4	06/24/2009 10:10:44			
11	CEBLK-15(METHOD BLANK)	AM08526B	GC16-712-5	06/24/2009 11:18:11	40.92	0.00	90.8
12	LCS-15(LAB CONTROL SPIKE)	AM08526L	GC16-712-6	06/24/2009 12:25:50	40.93	0.01	90.5
13	CCC Std 122 ng/mL	CCCS0624B	GC16-712-9	06/24/2009 15:48:25			
14	Surr TCMX/DCBP 5/50 ppb	TD0624A	GC16-712-11	06/24/2009 18:42:13			
15	CCC Std 122 ng/mL	CCCS0624D	GC16-712-15	06/24/2009 23:11:55			
16	WFF-LOC5-090624-AT001	AM08568	GC16-713-2	06/25/2009 03:10:36	40.94	0.02	73.7
17	WFF-LOC5-090624-AT001	AM08568DL1	GC16-713-3	06/25/2009 04:18:02	40.92	0.00	92.5
18	WFF-SCHU-090624-AT001	AM08569	GC16-713-4	06/25/2009 05:25:28	40.92	0.00	73.9
19	WFF-SCHU-090624-AT001	AM08569DL1	GC16-713-5	06/25/2009 06:32:55	40.92	0.00	96.2
20	CCC Std 122 ng/mL	CCCS0625A	GC16-713-6	06/25/2009 07:40:14			
21	WFF-WAFA-090624-AT001	AM08572	GC16-713-7	06/25/2009 08:47:28	40.93	0.01	72.8
22	WFF-WAFO-090624-AT001	AM08573	GC16-713-9	06/25/2009 11:02:06	40.93	0.01	75.9
23	CCC Std 122 ng/mL	CCCS0625B	GC16-713-11	06/25/2009 13:16:58			



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Sample Name:	AM08526B	Sample Amount:	1.000 L
Sample ID:	METHOD BLANK	Dilution:	5
Date Acquired:	06/24/2009 11:18:11	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	06/24/2009 18:39:14
Sample Set Name:	GC16_062409a	User Name:	Kari Lantiegne
Processing Method:	CSGB_LL1X_062209	Current Time:	19:30:26
Run Time:	60 Minutes	Current Date:	06/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-712-5

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.92	130677	18.151	90.8
2	I.S. (OCN)	46.96	103159	3.636	

AM08526B

1 of 1

Print Date:06/25/2009  
Nea Lims Version : 4.4.4.4



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Sample Name:	AM08526L	Sample Amount:	1.000 L
Sample ID:	LAB CONTROL SPIKE	Dilution:	5
Date Acquired:	06/24/2009 12:25:50	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	06/24/2009 18:41:32
Sample Set Name:	GC16_062409a	User Name:	Kari Lantiegne
Processing Method:	CSGB_LL1X_062209	Current Time:	19:30:26
Run Time:	60 Minutes	Current Date:	06/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-712-6

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.93	134474	18.091	90.5
2	I.S. (OCN)	46.96	106512	3.636	

AM08526L

1 of 1

Print Date:06/25/2009  
Nea Lims Version : 4.4.4.4



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Sample Name:	AM08568	Sample Amount:	1.040 L
Sample ID:	WFF-LOC5-090624-AT001	Dilution:	5
Date Acquired:	06/25/2009 03:10:36	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	06/25/2009 16:42:02
Sample Set Name:	GC16_GE_062509	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062209	Current Time:	19:30:26
Run Time:	60 Minutes	Current Date:	06/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-713-2

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.94	114088	14.742	73.7
2	I.S. (OCN)	46.96	110892	3.781	



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Sample Name:	AM08568DL1	Sample Amount:	1.040 L
Sample ID:	WFF-LOC5-090624-AT001	Dilution:	50
Date Acquired:	06/25/2009 04:18:02	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	06/25/2009 11:02:35
Sample Set Name:	GC16_GE_062509	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_062209	Current Time:	19:30:26
Run Time:	60 Minutes	Current Date:	06/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-713-3

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.92	13929	1.849	92.5
2	I.S. (OCN)	46.95	107916	0.378	



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Sample Name:	AM08569	Sample Amount:	0.960 L
Sample ID:	WFF-SCHU-090624-AT001	Dilution:	5
Date Acquired:	06/25/2009 05:25:28	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	06/25/2009 16:45:29
Sample Set Name:	GC16_GE_062509	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062209	Current Time:	19:30:26
Run Time:	60 Minutes	Current Date:	06/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-713-4

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.92	126674	14.786	73.9
2	I.S. (OCN)	46.95	122755	3.491	



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Sample Name: AM08569DL1 Sample Amount: 0.960 L  
Sample ID: WFF-SCHU-090624-AT001 Dilution: 50  
Date Acquired: 06/25/2009 06:32:55 Extract Volume: 5 mL  
Project Name: GC16\_May\_2009 Date Processed: 06/25/2009 11:02:50  
Sample Set Name: GC16\_GE\_062509 User Name: Amy Jo Arndt  
Processing Method: CSGB\_S\_20\_062209 Current Time: 19:30:26  
Run Time: 60 Minutes Current Date: 06/25/2009  
Report Name: CSGB\_Surrogate(NeaLims) LIMS File ID: GC16-713-5

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.92	14225	1.925	96.2
2	I.S. (OCN)	46.96	105911	0.349	



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Sample Name:	AM08572	Sample Amount:	1.030 L
Sample ID:	WFF-WAFA-090624-AT001	Dilution:	5
Date Acquired:	06/25/2009 08:47:28	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	06/25/2009 16:47:52
Sample Set Name:	GC16_GE_062509	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062209	Current Time:	19:30:26
Run Time:	60 Minutes	Current Date:	06/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-713-7

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.93	130918	14.552	72.8
2	I.S. (OCN)	46.95	128910	3.745	



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Sample Name:	AM08573	Sample Amount:	0.940 L
Sample ID:	WFF-WAFO-090624-AT001	Dilution:	5
Date Acquired:	06/25/2009 11:02:06	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	06/25/2009 16:49:37
Sample Set Name:	GC16_GE_062509	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062209	Current Time:	19:30:26
Run Time:	60 Minutes	Current Date:	06/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-713-9

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.93	135877	15.184	75.9
2	I.S. (OCN)	46.95	128223	3.418	

# Laboratory Control Spike Summary

## PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Northeast Analytical, Inc.

ELAP ID No: 11078

SDG No: 09060293

LCS ID: LCS-15

Blank Sample ID: CEBLK-15

LCS File ID: GC16-712-6

Method Blank File ID: GC16-712-5

LCS Inj Date: 06/24/2009 12:25:50

Method Blank Inj Date: 06/24/2009 11:18:11

LCS NEA ID No: AM08526L

Method Blank NEA ID No: AM08526B

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS PERCENT RECOVERY #	QC LIMITS PERCENT RECOVERY
Total PCBs	200	185	92.4	60.0-140

# Column to be used to flag recovery values.

\* Value outside of QC limits.

Comments: \_\_\_\_\_  
 \_\_\_\_\_

# Method Blank Summary

**PCB METHOD BLANK SUMMARY**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09060293</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>CEBLK-15</u>
Matrix:	<u>ORGANIC FREE WATER</u>	Client ID:	<u>CEBLK-15(METHOD BLANK)</u>
Sample Wt(Dry)/Vol:	<u>1000 mL</u>	Lab Sample ID:	<u>AM08526B</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC16-712-5</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>06/24/2009</u>
Injection Volume:	<u>0.5 uL</u>	Date/Time Analyzed:	<u>06/24/2009 11:18</u>
Analytical SOP Reference:	<u>SOP NE207_03.DOC</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>Agilent DB-1; 30 meter; 0.25 micron phase thickness</u>		

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

# Sample Analysis Data

PCB SAMPLE ANALYSIS DATA SHEET

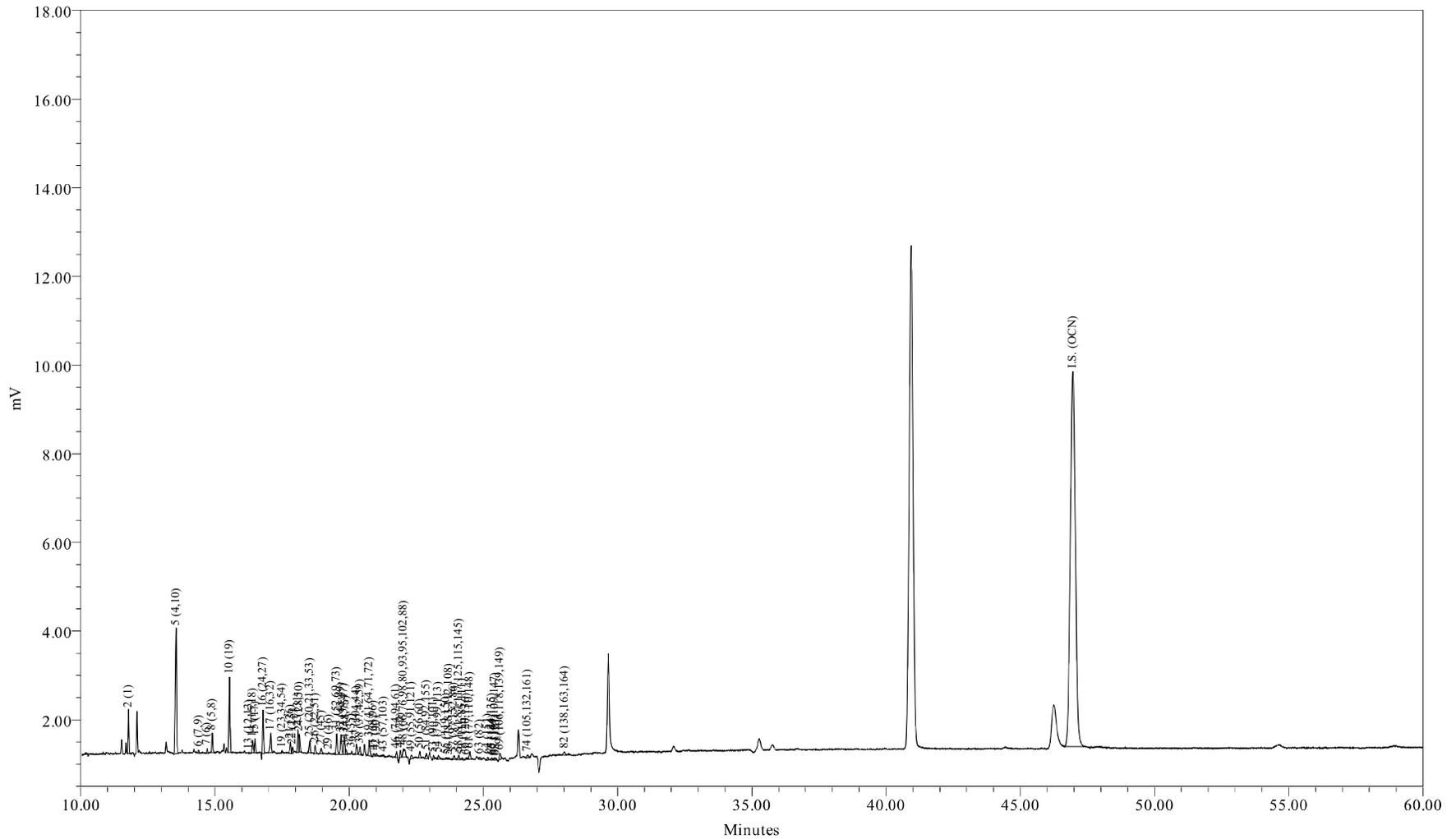
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09060293
ELAP ID No:	11078	LRF ID:	09060293-01
Matrix:	Water	Client ID:	WFF-LOC5-090624-AT001
Sample Wt(Dry)/Vol:	1040 mL	Lab Sample ID:	AM08568
% Moisture:	100	Lab File ID:	GC16-713-2
Extraction:	Solid Phase Extraction - 1L	Date Received:	06/24/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	06/24/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	06/25/2009 03:10
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 110892

Percent Recovery (50 - 150 %): 117

SAMPLE TOTAL PCB CONCENTRATION: 116 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM08568  
Sample ID: WFF-LOC5-090624-AT001  
Date Acquired: 6/25/2009 3:10:36 AM EDT

Sample Amount (L) : 1.0400  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-713-2

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 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 03:10:36  
 Lab Sample ID: AM08568  
 LRF ID: 09060293-01  
 Lab File ID: GC16-713-2

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 116 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	27.19	32.16
Di	45.14	45.13
Tri	18.01	15.61
Tetra	6.42	4.93
Penta	2.60	1.78
Hexa	0.64	0.41
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	31.5057	92.3	92.3
A1242	23+24/31+28	2.2388	6.56	6.56
A1254SED	61/100	0.3717	1.09	
A1254BIO	69+75+82/149+153+138	0.3744		1.10
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.67

Meta + Para Cl / biphenyl Residue = 0.33

Total Cl / biphenyl Residue = 2.00

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 03:10:36  
 Lab Sample ID: AM08568  
 LRF ID: 09060293-01  
 Lab File ID: GC16-713-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.78	188.7	1745	31.5	167	0.529	2.19	
3	12.82	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.55	223.1	1052	49.8	223	1.34	6.21	B
6	14.39	223.1	159	0.176	0.787	0.0721	0.219	J
7	14.71	223.1	219	0.445	1.99	0.158	0.347	
8	14.90	223.1	1066	1.48	6.65	0.542	2.56	J
9	15.46	223.1				0.294	25.0	U
10	15.54	257.5	532	7.53	29.3	0.604	1.02	
11	16.01	257.5				0.198	25.0	U
12	16.08	223.1				0.306	25.0	U
13	16.27	223.1	28	0.0578	0.259	0.0559	0.0975	J
14	16.41	249.0	805	1.33	5.36	0.128	0.676	
15	16.49	257.5	814	2.10	8.14	0.143	0.676	B
16	16.79	257.5	2403	2.19	8.49	0.0374	0.0475	B
17	17.08	257.5	1301	2.07	8.05	0.166	0.713	
19	17.50	267.9	111	0.149	0.556	0.128	25.0	J
20	17.69	257.5				0.0108	0.0194	U
21	17.81	257.5	677	0.912	3.54	0.0606	0.132	B
22	17.89	257.5	380	0.364	1.42	0.0426	0.0585	B
23	18.10	257.5	1434	1.45	5.63	0.487	0.753	
24	18.14	257.5	1045	0.788	3.06	0.211	0.964	J
25	18.53	259.5	947	1.07	4.14	0.105	0.726	
26	18.73	258.7	545	0.687	2.65	0.120	0.530	
27	18.96	292.0	379	0.408	1.40	0.0367	0.163	
28	19.10	257.5				0.375	25.0	U
29	19.23	292.0	91			0.127	0.127	U
30	19.36	257.5				0.120	25.0	U
31	19.53	292.0	1452	2.09	7.16	0.204	0.872	
32	19.70	292.0	1424	1.00	3.44	0.0978	0.420	
33	19.82	292.0	1258	0.685	2.35	0.0656	0.183	
34	19.86	292.0	358	0.217	0.743	0.0579	0.183	
35	20.02	292.0				0.205	25.0	U
36	20.10	257.5	170	0.301	1.17	0.144	25.0	J

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.27	292.0	678	0.547	1.87	0.160	0.786	J
38	20.40	272.4	606	0.668	2.45	0.115	0.475	
39	20.75	292.0	1182	0.835	2.86	0.121	0.749	
41	20.91	326.4	212	0.260	0.797	0.115	25.0	J
42	21.01	292.0	205	0.211	0.723	0.0968	0.172	
43	21.29	298.9	74			0.152	25.0	U
44	21.44	298.9				0.0225	0.0402	U
45	21.60	292.0				0.0299	0.0384	U
46	21.76	292.0	361	0.177	0.606	0.0821	0.347	J
47	21.90	292.0	413			0.164	0.621	U
48	22.02	293.5	1109	0.875	2.98	0.243	1.32	J
49	22.31	324.7	292	0.259	0.799	0.0376	0.0932	
50	22.63	292.0	456			0.359	0.640	U
51	22.88	326.4	447	0.782	2.40	0.0888	0.329	
52	22.97	326.4				0.0384	0.0384	U
53	23.13	326.4	249	0.132	0.405	0.0691	0.329	J
54	23.32	326.4	318	0.161	0.494	0.101	0.135	
55	23.60	326.4	47	0.0186	0.0568	0.00644	0.0102	
56	23.71	326.4	51			0.0647	0.0647	U
57	23.90	326.4	368	0.231	0.709	0.0435	0.102	B
58	24.08	326.4	368	0.271	0.830	0.0841	0.212	
59	24.21	326.4	113	0.0646	0.198	0.0484	0.128	J
60	24.36	360.9	174	0.156	0.433	0.0772	0.137	
61	24.49	326.4	531	0.372	1.14	0.0668	0.389	J
62	24.77	360.9				0.113	25.0	U
63	24.86	326.4	178	0.108	0.331	0.0201	0.0804	B
64	25.16	360.9	184	0.0921	0.255	0.0518	0.311	J
65	25.31	350.5	158	0.0711	0.203	0.0149	0.0530	B
66	25.36	360.9	46	0.0623	0.173	0.0541	0.110	JB
67	25.42	336.8	174	0.167	0.497	0.0348	0.0475	B
68	25.48	326.4	46			0.125	25.0	U
69	25.62	337.5	504	0.196	0.581	0.0938	0.731	J
70	25.73	360.9				0.0829	25.0	U
71	26.02	347.8				0.0348	0.0369	U
72	26.22	336.8				0.00638	0.0106	U
73	26.52	360.9				0.0320	0.0713	U
74	26.64	347.8	294	0.152	0.438	0.0721	0.248	J
75	26.81	360.9				0.109	0.538	U
76	26.92	360.9				0.107	25.0	U
77	27.34	360.9				0.0637	0.311	U
78	27.42	395.3				0.0470	0.267	U
79	27.63	360.9				0.0501	0.0501	U
80	27.78	360.9				0.0151	0.0475	U
82	28.03	360.9	370	0.178	0.494	0.108	0.493	J
83	28.19	360.9				0.0450	0.0457	U
84	28.40	360.9				0.00310	0.00473	U
85	28.75	395.3				0.0677	0.201	U
87	29.06	395.3				0.0156	0.0731	U
88	29.21	395.3				0.102	0.658	U
89	29.34	360.9				0.0199	0.0366	U
90	29.52	395.3				0.0679	0.311	U
91	29.81	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.14	394.3				0.0225	0.0859	U
93	30.51	394.3				0.102	0.585	U
94	30.79	394.3				0.0936	0.311	U
95	31.09	382.2				0.0871	0.144	U
96	31.36	429.8				0.00942	0.0121	U
98	31.52	395.3				0.0133	0.0139	U
99	31.90	429.8				0.0863	0.0863	U
100	32.16	395.3				0.127	0.127	U
101	32.46	429.8				0.217	0.217	U
102	32.65	395.3				0.150	1.11	U
103	32.90	395.3				0.0640	0.0768	U
104	33.20	395.3				0.0374	0.0438	U
105	33.56	429.8				0.0460	0.0786	U
106	34.74	395.3				0.0538	0.234	U
107	35.02	395.3				0.0213	0.0768	U
108	35.90	429.8				0.0324	0.0438	U
109	36.14	429.8				0.116	0.768	U
110	36.69	429.8				0.184	0.786	U
111	37.86	395.3				0.0231	0.0231	U
112	39.45	429.8				0.0368	0.101	U
113	39.97	464.2				0.0438	0.0903	U
114	40.93	464.2				0.0154	0.0340	U
115	42.37	429.8				0.0969	0.329	U
116	43.27	429.8				0.0838	0.0838	U
117	48.49	464.2				0.0384	0.124	U
118	54.65	498.6				0.0126	0.0126	U

Total Concentration = 116 ng/L

10.8 38.7

Total Nanomoles = 0.519

Average Molecular Weight = 223.2

Number of Calibrated Peaks Found = 55

Internal Standard Retention Time = 46.96 minutes

Internal Standard Peak Area = 110892.3

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 03:10:36  
 Lab Sample ID: AM08568  
 LRF ID: 09060293-01  
 Lab File ID: GC16-713-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	0.2509	2	27.188	32.158
3	12.82	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.55	2:2	004 010	0.2885	2-2; 26	42.985	43.004
6	14.39	2:1	007 009	0.3064	24; 25	0.152	0.152
7	14.71	2:1	006	0.3132	2-3	0.384	0.384
8	14.90	2:1	005 008	0.3173	23; 2-4	1.281	1.281
9	15.46	2:0	014		35	-	-
10	15.54	3:3	019	0.3309	26-2	6.502	5.635
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.27	2:0	012 013	0.3465	34; 3-4	0.050	0.050
14	16.41	2:0 3:2	015 018	0.3494	4-4; 25-2	1.152	1.032
15	16.49	3:2	017	0.3511	24-2	1.808	1.567
16	16.79	3:2	024 027	0.3575	236; 26-3	1.886	1.635
17	17.08	3:2	016 032	0.3637	23-2; 26-4	1.788	1.550
19	17.50	3:1 4:4	023 034 054	0.3727	235; 35-2; 26-26	0.128	0.107
20	17.69	3:1	029		245	-	-
21	17.81	3:1	026	0.3793	25-3	0.787	0.682
22	17.89	3:1	025	0.3810	24-3	0.314	0.273
23	18.10	3:1	031	0.3854	25-4	1.252	1.085
24	18.14	3:1 4:3	028 050	0.3863	24-4; 246-2	0.680	0.589
25	18.53	3:1 4:3	020 021 033 053	0.3946	23-3; 234; 34-2; 25-26	0.927	0.797
26	18.73	3:1 4:3	022 051	0.3989	23-4; 24-26	0.593	0.511
27	18.96	4:3	045	0.4037	236-2	0.352	0.269
28	19.10	3:0	036		35-3	-	-
29	19.23	4:3	046		23-26	-	-
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073	0.4159	25-25; 246-3; 26-35	1.804	1.379
32	19.70	4:2	043 049	0.4195	235-2; 24-25	0.867	0.663
33	19.82	4:2	038 047	0.4221	345; 24-24	0.591	0.452
34	19.86	4:2	048 075	0.4229	245-2; 246-4	0.187	0.143
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.10	3:0	035	0.4280	34-3	0.259	0.225
37	20.27	5:4 4:2	104 044	0.4316	246-26; 23-25	0.472	0.361
38	20.40	3:0 4:2	037 042 059	0.4344	34-4; 23-24; 236-3	0.576	0.472
39	20.75	4:2	041 064 071 072	0.4419	234-2; 236-4; 26-34; 25-35	0.721	0.551

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.91	5:4	068 096	0.4453	24-35; 236-26	0.224	0.153
42	21.01	4:2	040	0.4474	23-23	0.182	0.139
43	21.29	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.44	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.60	4:1	063		235-4	-	-
46	21.76	4:1 5:3	074 094 061	0.4634	245-4; 235-26; 2345	0.153	0.117
47	21.90	4:1	070		25-34	-	-
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.755	0.574
49	22.31	4:1 5:3	055 091 121	0.4751	234-3; 236-24; 246-35	0.224	0.154
50	22.63	4:1	056 060		23-34; 234-4	-	-
51	22.88	5:3 6:4	084 092 155	0.4872	236-23; 235-25; 246-246	0.675	0.461
52	22.97	5:3	089		234-26	-	-
53	23.13	5:2	090 101	0.4925	235-24; 245-25	0.114	0.078
54	23.32	5:2	079 099 113	0.4966	34-35; 245-24; 236-35	0.139	0.095
55	23.60	5:2 6:4	119 150	0.5026	246-34; 236-246	0.016	0.011
56	23.71	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.90	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	0.200	0.137
58	24.08	5:2	081 087 117 125 115 145	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.234	0.160
59	24.21	5:2	116 085 111	0.5155	23456; 234-24; 235-35	0.056	0.038
60	24.36	6:4	120 136	0.5187	245-35; 236-236	0.135	0.083
61	24.49	5:2	077 110 148	0.5215	34-34; 236-34; 235-246	0.321	0.219
62	24.77	6:3	154		245-246	-	-
63	24.86	5:2	082	0.5294	234-23	0.093	0.064
64	25.16	6:3	151	0.5358	2356-25	0.079	0.049
65	25.31	5:1 6:3	124 135	0.5390	345-25; 235-236	0.061	0.039
66	25.36	6:3	144	0.5400	2346-25	0.054	0.033
67	25.42	5:1 6:3	107 109 147	0.5413	234-35; 235-34; 2356-24	0.144	0.096
68	25.48	5:1	123		345-24	-	-
69	25.62	5:1 6:3	106 118 139 149	0.5456	2345-3; 245-34; 2346-24; 236-245	0.169	0.112
70	25.73	6:3	140		234-246	-	-
71	26.02	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.22	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.64	5:1 6:3	105 132 161	0.5673	234-34; 234-236; 2346-35	0.132	0.084
75	26.81	6:2	153		245-245	-	-
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.34	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.63	6:2	137		2345-24	-	-
80	27.78	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.03	6:2	138 163 164	0.5969	234-245; 2356-34; 236-345	0.154	0.095
83	28.19	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.40	6:2	126 129		345-34; 2345-23	-	-
85	28.75	7:3	166 178		23456-4; 2356-235	-	-
87	29.06	7:3	175 159		2346-235; 2345-35	-	-
88	29.21	7:3	182 187		2345-246; 2356-245	-	-
89	29.34	6:2	128 162		234-234; 235-345	-	-
90	29.52	7:3	183		2346-245	-	-
91	29.81	6:1	167		245-345	-	-
92	30.14	7:3	185		23456-25	-	-
93	30.51	7:3	174 181		2345-236; 23456-24	-	-
94	30.79	7:3	177		2356-234	-	-
95	31.09	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.36	8:4	157 202		234-345; 2356-2356	-	-
98	31.52	7:3	173		23456-23	-	-
99	31.90	8:4	201		2346-2356	-	-
100	32.16	7:2	172 204		2345-235; 23456-246	-	-
101	32.46	8:4	192 197		23456-35; 2346-2346	-	-
102	32.65	7:2	180		2345-245	-	-
103	32.90	7:2	193		2356-345	-	-
104	33.20	7:2	191		2346-345	-	-
105	33.56	8:4	200 169		23456-236; 345-345	-	-
106	34.74	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.02	7:2	<b>190</b>		23456-34	-	-
108	35.90	8:3	<b>198</b>		23456-235	-	-
109	36.14	8:3	<b>199</b>		2345-2356	-	-
110	36.69	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.86	7:1	<b>189</b>		2345-345	-	-
112	39.45	8:3	<b>195</b>		23456-234	-	-
113	39.97	9:4	<b>208</b>		23456-2356	-	-
114	40.93	9:4	<b>207</b>		23456-2346	-	-
115	42.37	8:2	<b>194</b>		2345-2345	-	-
116	43.27	8:2	<b>205</b>		23456-345	-	-
117	48.49	9:3	<b>206</b>		23456-2345	-	-
118	54.65	10:4	<b>209</b>		23456-23456	-	-

Concentration = 116 ng/L

Total Nanomoles = 0.519

Average Molecular Weight = 223.2

Number of Calibrated Peaks Found = 55

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

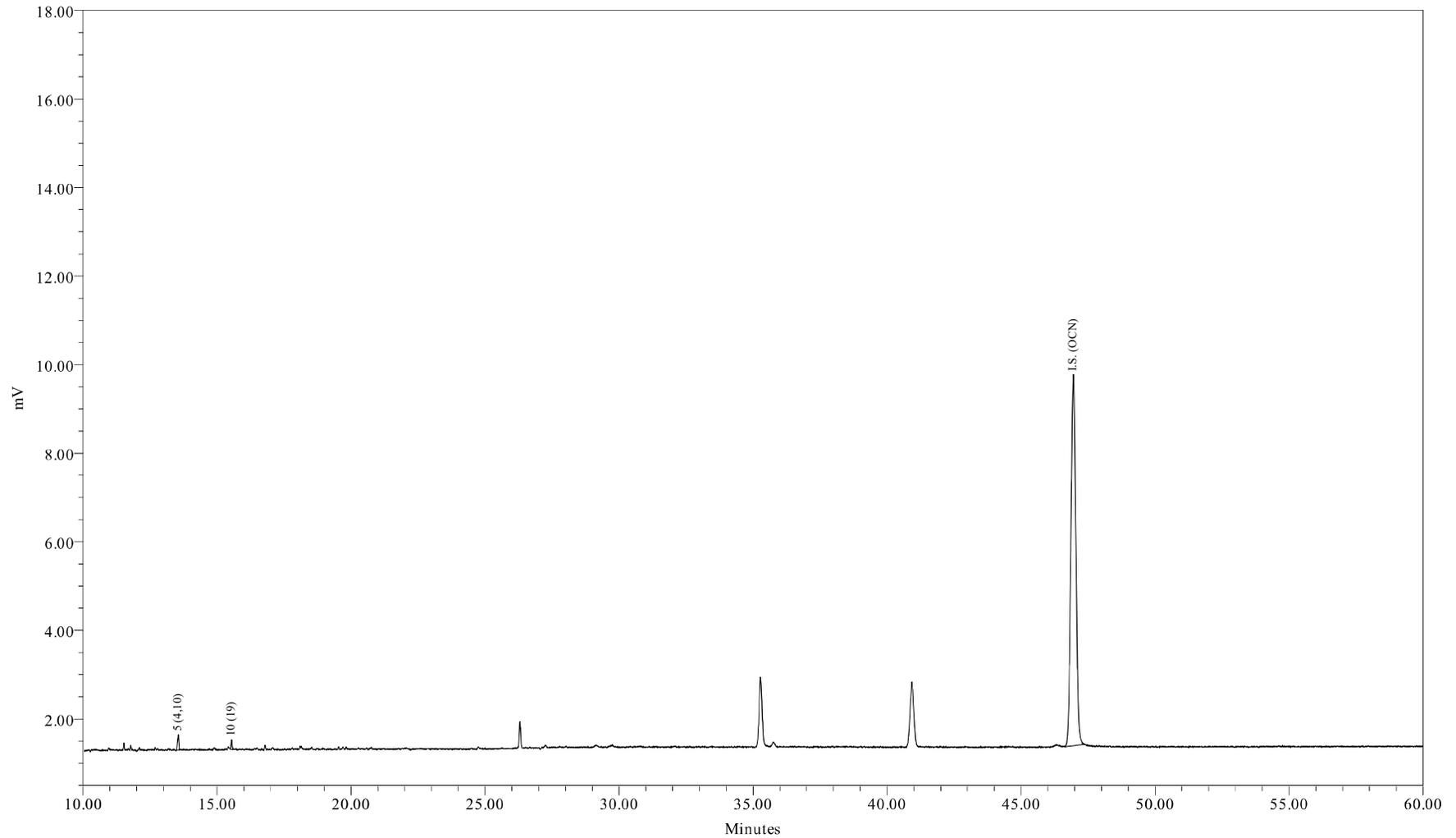
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM08568DL1  
Sample ID: WFF-LOC5-090624-AT001  
Date Acquired: 6/25/2009 4:18:02 AM EDT

Sample Amount (L) : 1.0400  
Dilution: 50  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-713-3

Sample Name: AM08568DL1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 04:18:02  
 Lab Sample ID: AM08568DL1  
 LRF ID: 09060293-01DL1  
 Lab File ID: GC16-713-3

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 57.3 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	86.86	88.41
Tri	13.14	11.59
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.12

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.12

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 04:18:02  
 Lab Sample ID: AM08568DL1  
 LRF ID: 09060293-01DL1  
 Lab File ID: GC16-713-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.78	188.7				5.29	21.9	U
3	12.82	188.7				66.3	10000	U
4	12.93	188.7				3.55	12.8	U
5	13.55	223.1	1052	49.8	223	1.34	6.21	B
6	14.40	223.1				0.721	2.19	U
7	14.71	223.1				1.58	3.47	U
8	14.90	223.1				5.42	25.6	U
9	15.46	223.1				2.94	250	U
10	15.54	257.5	532	7.53	29.3	0.604	1.02	
11	16.01	257.5				1.98	250	U
12	16.08	223.1				3.06	250	U
13	16.28	223.1				0.559	0.975	U
14	16.40	249.0				1.28	6.76	U
15	16.49	257.5				1.43	6.76	U
16	16.79	257.5				0.374	0.475	U
17	17.04	257.5				1.66	7.13	U
19	17.51	267.9				1.28	250	U
20	17.69	257.5				0.108	0.194	U
21	17.82	257.5				0.606	1.32	U
22	17.90	257.5				0.426	0.585	U
23	18.10	257.5				4.87	7.53	U
24	18.14	257.5				2.11	9.64	U
25	18.50	259.5				1.05	7.26	U
26	18.73	258.7				1.20	5.30	U
27	18.96	292.0				0.367	1.63	U
28	19.10	257.5				3.75	250	U
29	19.23	292.0				1.27	1.27	U
30	19.36	257.5				1.20	250	U
31	19.53	292.0				2.04	8.72	U
32	19.70	292.0				0.978	4.20	U
33	19.82	292.0				0.656	1.83	U
34	19.88	292.0				0.579	1.83	U
35	20.02	292.0				2.05	250	U
36	20.10	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.27	292.0				1.60	7.86	U
38	20.40	272.4				1.15	4.75	U
39	20.75	292.0				1.21	7.49	U
41	20.92	326.4				1.15	250	U
42	21.02	292.0				0.968	1.72	U
43	21.27	298.9				1.52	250	U
44	21.44	298.9				0.225	0.402	U
45	21.60	292.0				0.299	0.384	U
46	21.77	292.0				0.821	3.47	U
47	21.90	292.0				1.64	6.21	U
48	22.02	293.5				2.43	13.2	U
49	22.32	324.7				0.376	0.932	U
50	22.63	292.0				3.59	6.40	U
51	22.87	326.4				0.888	3.29	U
52	22.97	326.4				0.384	0.384	U
53	23.12	326.4				0.691	3.29	U
54	23.32	326.4				1.01	1.35	U
55	23.60	326.4				0.0644	0.102	U
56	23.69	326.4				0.647	0.647	U
57	23.91	326.4				0.435	1.02	U
58	24.08	326.4				0.841	2.12	U
59	24.24	326.4				0.484	1.28	U
60	24.36	360.9				0.772	1.37	U
61	24.49	326.4				0.668	3.89	U
62	24.77	360.9				1.13	250	U
63	24.86	326.4				0.201	0.804	U
64	25.15	360.9				0.518	3.11	U
65	25.29	350.5				0.149	0.530	U
66	25.36	360.9				0.541	1.10	U
67	25.42	336.8				0.348	0.475	U
68	25.52	326.4				1.25	250	U
69	25.61	337.5				0.938	7.31	U
70	25.73	360.9				0.829	250	U
71	26.02	347.8				0.348	0.369	U
72	26.22	336.8				0.0638	0.106	U
73	26.52	360.9				0.320	0.713	U
74	26.65	347.8				0.721	2.48	U
75	26.81	360.9				1.09	5.38	U
76	26.92	360.9				1.07	250	U
77	27.34	360.9				0.637	3.11	U
78	27.42	395.3				0.470	2.67	U
79	27.63	360.9				0.501	0.501	U
80	27.78	360.9				0.151	0.475	U
82	28.01	360.9				1.08	4.93	U
83	28.19	360.9				0.450	0.457	U
84	28.40	360.9				0.0310	0.0473	U
85	28.75	395.3				0.677	2.01	U
87	29.06	395.3				0.156	0.731	U
88	29.21	395.3				1.02	6.58	U
89	29.34	360.9				0.199	0.366	U
90	29.52	395.3				0.679	3.11	U
91	29.81	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.14	394.3				0.225	0.859	U
93	30.51	394.3				1.02	5.85	U
94	30.79	394.3				0.936	3.11	U
95	31.09	382.2				0.871	1.44	U
96	31.36	429.8				0.0942	0.121	U
98	31.52	395.3				0.133	0.139	U
99	31.90	429.8				0.863	0.863	U
100	32.16	395.3				1.27	1.27	U
101	32.46	429.8				2.17	2.17	U
102	32.65	395.3				1.50	11.1	U
103	32.90	395.3				0.640	0.768	U
104	33.20	395.3				0.374	0.438	U
105	33.56	429.8				0.460	0.786	U
106	34.74	395.3				0.538	2.34	U
107	35.02	395.3				0.213	0.768	U
108	35.90	429.8				0.324	0.438	U
109	36.14	429.8				1.16	7.68	U
110	36.69	429.8				1.84	7.86	U
111	37.86	395.3				0.231	0.231	U
112	39.45	429.8				0.368	1.01	U
113	39.97	464.2				0.438	0.903	U
114	40.93	464.2				0.154	0.340	U
115	42.37	429.8				0.969	3.29	U
116	43.27	429.8				0.838	0.838	U
117	48.49	464.2				0.384	1.24	U
118	54.65	498.6				0.126	0.126	U

Total Concentration = 57.3 ng/L

91.0

322

Total Nanomoles = 0.253

Average Molecular Weight = 227.1

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 46.95 minutes

Internal Standard Peak Area = 107915.6

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 04:18:02  
 Lab Sample ID: AM08568DL1  
 LRF ID: 09060293-01DL1  
 Lab File ID: GC16-713-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001		2	-	-
3	12.82	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.55	2:2	004 010	0.2886	2-2; 26	86.862	88.414
6	14.40	2:1	007 009		24; 25	-	-
7	14.71	2:1	006		2-3	-	-
8	14.90	2:1	005 008		23; 2-4	-	-
9	15.46	2:0	014		35	-	-
10	15.54	3:3	019	0.3310	26-2	13.138	11.586
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.28	2:0	012 013		34; 3-4	-	-
14	16.40	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.49	3:2	017		24-2	-	-
16	16.79	3:2	024 027		236; 26-3	-	-
17	17.04	3:2	016 032		23-2; 26-4	-	-
19	17.51	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.69	3:1	029		245	-	-
21	17.82	3:1	026		25-3	-	-
22	17.90	3:1	025		24-3	-	-
23	18.10	3:1	031		25-4	-	-
24	18.14	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.50	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.73	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.96	4:3	045		236-2	-	-
28	19.10	3:0	036		35-3	-	-
29	19.23	4:3	046		23-26	-	-
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.70	4:2	043 049		235-2; 24-25	-	-
33	19.82	4:2	038 047		345; 24-24	-	-
34	19.88	4:2	048 075		245-2; 246-4	-	-
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.10	3:0	035		34-3	-	-
37	20.27	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.40	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.75	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.92	5:4	068 096		24-35; 236-26	-	-
42	21.02	4:2	040		23-23	-	-
43	21.27	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.44	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.60	4:1	063		235-4	-	-
46	21.77	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.90	4:1	070		25-34	-	-
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.32	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.63	4:1	056 060		23-34; 234-4	-	-
51	22.87	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.97	5:3	089		234-26	-	-
53	23.12	5:2	090 101		235-24; 245-25	-	-
54	23.32	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.60	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.69	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.91	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	24.08	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.24	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.36	6:4	120 136		245-35; 236-236	-	-
61	24.49	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.77	6:3	154		245-246	-	-
63	24.86	5:2	082		234-23	-	-
64	25.15	6:3	151		2356-25	-	-
65	25.29	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.36	6:3	144		2346-25	-	-
67	25.42	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.52	5:1	123		345-24	-	-
69	25.61	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.73	6:3	140		234-246	-	-
71	26.02	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.22	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.65	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.81	6:2	153		245-245	-	-
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.34	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.63	6:2	137		2345-24	-	-
80	27.78	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.01	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.19	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.40	6:2	126 129		345-34; 2345-23	-	-
85	28.75	7:3	166 178		23456-4; 2356-235	-	-
87	29.06	7:3	175 159		2346-235; 2345-35	-	-
88	29.21	7:3	182 187		2345-246; 2356-245	-	-
89	29.34	6:2	128 162		234-234; 235-345	-	-
90	29.52	7:3	183		2346-245	-	-
91	29.81	6:1	167		245-345	-	-
92	30.14	7:3	185		23456-25	-	-
93	30.51	7:3	174 181		2345-236; 23456-24	-	-
94	30.79	7:3	177		2356-234	-	-
95	31.09	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.36	8:4	157 202		234-345; 2356-2356	-	-
98	31.52	7:3	173		23456-23	-	-
99	31.90	8:4	201		2346-2356	-	-
100	32.16	7:2	172 204		2345-235; 23456-246	-	-
101	32.46	8:4	192 197		23456-35; 2346-2346	-	-
102	32.65	7:2	180		2345-245	-	-
103	32.90	7:2	193		2356-345	-	-
104	33.20	7:2	191		2346-345	-	-
105	33.56	8:4	200 169		23456-236; 345-345	-	-
106	34.74	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.02	7:2	<b>190</b>		23456-34	-	-
108	35.90	8:3	<b>198</b>		23456-235	-	-
109	36.14	8:3	<b>199</b>		2345-2356	-	-
110	36.69	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.86	7:1	<b>189</b>		2345-345	-	-
112	39.45	8:3	<b>195</b>		23456-234	-	-
113	39.97	9:4	<b>208</b>		23456-2356	-	-
114	40.93	9:4	<b>207</b>		23456-2346	-	-
115	42.37	8:2	<b>194</b>		2345-2345	-	-
116	43.27	8:2	<b>205</b>		23456-345	-	-
117	48.49	9:3	<b>206</b>		23456-2345	-	-
118	54.65	10:4	<b>209</b>		23456-23456	-	-

Concentration = 57.3 ng/L

Total Nanomoles = 0.253

Average Molecular Weight = 227.1

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 960 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 0.5 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: Agilent DB-1; 30 meter; 0.25 micron phase thickness

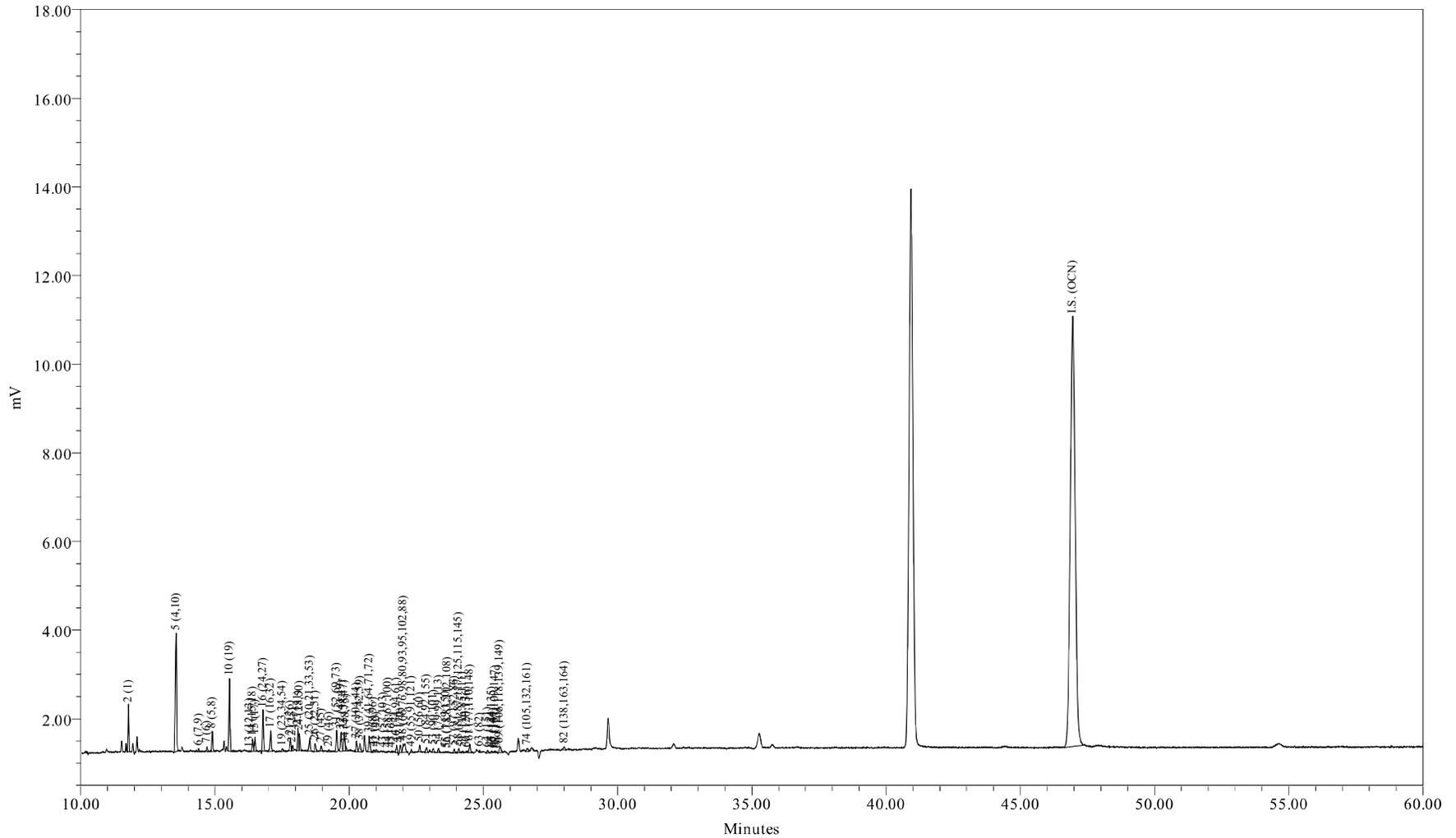
SDG No: 09060293  
LRF ID: 09060293-02  
Client ID: WFF-SCHU-090624-AT001  
Lab Sample ID: AM08569  
Lab File ID: GC16-713-4  
Date Received: 06/24/2009  
Date Extracted: 06/24/2009  
Date/Time Analyzed: 06/25/2009 05:25  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 122755

Percent Recovery (50 - 150 %): 129

SAMPLE TOTAL PCB CONCENTRATION: 106 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM08569  
Sample ID: WFF-SCHU-090624-AT001  
Date Acquired: 6/25/2009 5:25:28 AM EDT

Sample Amount (L): 0.9600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-713-4

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 05:25:28  
 Lab Sample ID: AM08569  
 LRF ID: 09060293-02  
 Lab File ID: GC16-713-4

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 106 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	31.74	37.33
Di	39.10	38.86
Tri	18.92	16.29
Tetra	7.06	5.39
Penta	2.62	1.78
Hexa	0.56	0.35
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	33.6377	92.8	93.1
A1242	23+24/31+28	2.1394	5.90	5.92
A1254SED	61/100	0.4668	1.29	
A1254BIO	69+75+82/149+153+138	0.3572		0.989
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.62

Meta + Para Cl / biphenyl Residue = 0.35

Total Cl / biphenyl Residue = 1.96

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 05:25:28  
 Lab Sample ID: AM08569  
 LRF ID: 09060293-02  
 Lab File ID: GC16-713-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.78	188.7	1903	33.6	178	0.551	2.28	
3	12.82	188.7				6.90	1040	U
4	12.93	188.7				0.370	1.33	U
5	13.55	223.1	8613	38.9	174	0.140	0.647	B
6	14.39	223.1	146	0.157	0.702	0.0751	0.228	J
7	14.71	223.1	218	0.425	1.91	0.165	0.362	
8	14.90	223.1	1145	1.56	6.97	0.565	2.66	J
9	15.46	223.1				0.306	26.0	U
10	15.54	257.5	462	7.21	28.0	0.629	1.07	
11	16.01	257.5				0.207	26.0	U
12	16.08	223.1				0.319	26.0	U
13	16.29	223.1	53	0.0983	0.441	0.0582	0.102	J
14	16.40	249.0	731	1.16	4.66	0.133	0.704	
15	16.49	257.5	849	2.14	8.29	0.149	0.704	B
16	16.79	257.5	2354	2.09	8.13	0.0390	0.0495	B
17	17.08	257.5	1349	2.10	8.15	0.173	0.742	
19	17.51	267.9	176	0.231	0.863	0.134	26.0	J
20	17.69	257.5				0.0112	0.0202	U
21	17.81	257.5	749	0.987	3.83	0.0631	0.137	B
22	17.89	257.5	314	0.295	1.14	0.0444	0.0609	B
23	18.10	257.5	1435	1.40	5.45	0.508	0.785	
24	18.15	257.5	1022	0.736	2.86	0.220	1.00	J
25	18.53	259.5	957	1.05	4.06	0.110	0.756	
26	18.73	258.7	535	0.657	2.54	0.125	0.552	
27	18.96	292.0	305	0.314	1.08	0.0382	0.169	
28	19.10	257.5				0.391	26.0	U
29	19.24	292.0	125	0.160	0.549	0.132	0.132	
30	19.36	257.5				0.125	26.0	U
31	19.53	292.0	1387	1.93	6.61	0.212	0.908	
32	19.70	292.0	1303	0.876	3.00	0.102	0.438	
33	19.82	292.0	1328	0.704	2.41	0.0683	0.190	
34	19.88	292.0	224	0.106	0.364	0.0603	0.190	J
35	20.02	292.0				0.213	26.0	U
36	20.10	257.5				0.150	26.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.27	292.0	712	0.553	1.89	0.167	0.819	J
38	20.40	272.4	687	0.744	2.73	0.119	0.495	
39	20.75	292.0	1192	0.814	2.79	0.127	0.780	
41	20.91	326.4	191	0.230	0.703	0.119	26.0	J
42	21.02	292.0	169	0.174	0.595	0.101	0.179	J
43	21.27	298.9	39			0.159	26.0	U
44	21.44	298.9	26			0.0235	0.0419	U
45	21.59	292.0	78	0.0555	0.190	0.0312	0.0400	
46	21.77	292.0	450	0.219	0.751	0.0855	0.362	J
47	21.90	292.0	510	0.200	0.684	0.170	0.647	J
48	22.02	293.5	1211	0.931	3.17	0.254	1.37	J
49	22.32	324.7	182	0.165	0.510	0.0392	0.0971	
50	22.63	292.0	415			0.374	0.666	U
51	22.88	326.4	403	0.689	2.11	0.0925	0.343	
52	22.97	326.4				0.0400	0.0400	U
53	23.13	326.4	248	0.121	0.372	0.0719	0.343	J
54	23.33	326.4	273	0.133	0.408	0.106	0.141	J
55	23.60	326.4	68	0.0266	0.0816	0.00671	0.0107	
56	23.67	326.4	67			0.0674	0.0674	U
57	23.91	326.4	291	0.175	0.536	0.0453	0.107	B
58	24.08	326.4	353	0.252	0.771	0.0877	0.221	
59	24.23	326.4	124	0.0695	0.213	0.0504	0.133	J
60	24.39	360.9	168	0.149	0.414	0.0804	0.143	
61	24.49	326.4	667	0.467	1.43	0.0696	0.405	
62	24.77	360.9				0.118	26.0	U
63	24.85	326.4	125	0.0680	0.208	0.0209	0.0837	JB
64	25.16	360.9	221	0.114	0.315	0.0540	0.324	J
65	25.31	350.5	152	0.0661	0.188	0.0156	0.0552	B
66	25.37	360.9	69	0.0895	0.248	0.0563	0.114	JB
67	25.43	336.8	182	0.171	0.509	0.0363	0.0495	B
68	25.51	326.4	48			0.130	26.0	U
69	25.62	337.5	607	0.246	0.728	0.0977	0.761	J
70	25.73	360.9				0.0863	26.0	U
71	26.02	347.8				0.0363	0.0384	U
72	26.22	336.8				0.00665	0.0111	U
73	26.52	360.9				0.0333	0.0743	U
74	26.64	347.8	224	0.110	0.315	0.0751	0.258	J
75	26.81	360.9				0.114	0.561	U
76	26.92	360.9				0.112	26.0	U
77	27.34	360.9				0.0664	0.324	U
78	27.42	395.3				0.0490	0.278	U
79	27.63	360.9				0.0522	0.0522	U
80	27.78	360.9				0.0157	0.0495	U
82	28.01	360.9	282			0.112	0.514	U
83	28.19	360.9				0.0468	0.0476	U
84	28.40	360.9				0.00322	0.00493	U
85	28.75	395.3				0.0706	0.209	U
87	29.06	395.3				0.0163	0.0762	U
88	29.21	395.3				0.106	0.685	U
89	29.34	360.9				0.0208	0.0381	U
90	29.52	395.3				0.0707	0.324	U
91	29.81	360.9				0.0363	0.0363	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.14	394.3				0.0234	0.0894	U
93	30.51	394.3				0.107	0.609	U
94	30.79	394.3				0.0975	0.324	U
95	31.09	382.2				0.0908	0.150	U
96	31.36	429.8				0.00981	0.0126	U
98	31.52	395.3				0.0139	0.0145	U
99	31.90	429.8				0.0899	0.0899	U
100	32.16	395.3				0.132	0.132	U
101	32.46	429.8				0.226	0.226	U
102	32.65	395.3				0.157	1.16	U
103	32.90	395.3				0.0666	0.0799	U
104	33.20	395.3				0.0390	0.0457	U
105	33.56	429.8				0.0480	0.0818	U
106	34.74	395.3				0.0561	0.244	U
107	35.02	395.3				0.0222	0.0799	U
108	35.90	429.8				0.0337	0.0457	U
109	36.14	429.8				0.120	0.799	U
110	36.69	429.8				0.192	0.819	U
111	37.86	395.3				0.0240	0.0240	U
112	39.45	429.8				0.0383	0.105	U
113	39.97	464.2				0.0456	0.0941	U
114	40.93	464.2				0.0160	0.0354	U
115	42.37	429.8				0.101	0.343	U
116	43.27	429.8				0.0873	0.0873	U
117	48.49	464.2				0.0400	0.129	U
118	54.65	498.6				0.0131	0.0131	U

Total Concentration = 106 ng/L

10.0 34.5

Total Nanomoles = 0.478

Average Molecular Weight = 221.9

Number of Calibrated Peaks Found = 56

Internal Standard Retention Time = 46.95 minutes

Internal Standard Peak Area = 122755.4

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
2190 Technology Drive  
Schenectady, NY 12308  
(518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 05:25:28  
 Lab Sample ID: AM08569  
 LRF ID: 09060293-02  
 Lab File ID: GC16-713-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	0.2509	2	31.744	37.329
3	12.82	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.55	2:2	004 010	0.2886	2-2; 26	36.716	36.518
6	14.39	2:1	007 009	0.3065	24; 25	0.148	0.147
7	14.71	2:1	006	0.3133	2-3	0.401	0.399
8	14.90	2:1	005 008	0.3174	23; 2-4	1.468	1.460
9	15.46	2:0	014		35	-	-
10	15.54	3:3	019	0.3310	26-2	6.803	5.862
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.29	2:0	012 013	0.3470	34; 3-4	0.093	0.092
14	16.40	2:0 3:2	015 018	0.3493	4-4; 25-2	1.096	0.977
15	16.49	3:2	017	0.3512	24-2	2.016	1.737
16	16.79	3:2	024 027	0.3576	236; 26-3	1.976	1.703
17	17.08	3:2	016 032	0.3638	23-2; 26-4	1.980	1.706
19	17.51	3:1 4:4	023 034 054	0.3729	235; 35-2; 26-26	0.218	0.181
20	17.69	3:1	029		245	-	-
21	17.81	3:1	026	0.3793	25-3	0.931	0.803
22	17.89	3:1	025	0.3810	24-3	0.278	0.240
23	18.10	3:1	031	0.3855	25-4	1.325	1.142
24	18.15	3:1 4:3	028 050	0.3866	24-4; 246-2	0.694	0.598
25	18.53	3:1 4:3	020 021 033 053	0.3947	23-3; 234; 34-2; 25-26	0.994	0.850
26	18.73	3:1 4:3	022 051	0.3989	23-4; 24-26	0.620	0.532
27	18.96	4:3	045	0.4038	236-2	0.297	0.225
28	19.10	3:0	036		35-3	-	-
29	19.24	4:3	046	0.4098	23-26	0.151	0.115
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	1.822	1.385
32	19.70	4:2	043 049	0.4196	235-2; 24-25	0.827	0.628
33	19.82	4:2	038 047	0.4222	345; 24-24	0.665	0.505
34	19.88	4:2	048 075	0.4234	245-2; 246-4	0.100	0.076
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.10	3:0	035		34-3	-	-
37	20.27	5:4 4:2	104 044	0.4317	246-26; 23-25	0.522	0.396
38	20.40	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	0.702	0.572
39	20.75	4:2	041 064 071 072	0.4420	234-2; 236-4; 26-34; 25-35	0.768	0.584

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.91	5:4	068 096	0.4454	24-35; 236-26	0.217	0.147
42	21.02	4:2	040	0.4477	23-23	0.164	0.125
43	21.27	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.44	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.59	4:1	063	0.4599	235-4	0.052	0.040
46	21.77	4:1 5:3	074 094 061	0.4637	245-4; 235-26; 2345	0.207	0.157
47	21.90	4:1	070	0.4665	25-34	0.188	0.143
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088	0.4690	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.879	0.665
49	22.32	4:1 5:3	055 091 121	0.4754	234-3; 236-24; 246-35	0.156	0.107
50	22.63	4:1	056 060		23-34; 234-4	-	-
51	22.88	5:3 6:4	084 092 155	0.4873	236-23; 235-25; 246-246	0.651	0.442
52	22.97	5:3	089		234-26	-	-
53	23.13	5:2	090 101	0.4927	235-24; 245-25	0.114	0.078
54	23.33	5:2	079 099 113	0.4969	34-35; 245-24; 236-35	0.126	0.085
55	23.60	5:2 6:4	119 150	0.5027	246-34; 236-246	0.025	0.017
56	23.67	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.91	5:2 6:4	097 152 086	0.5093	245-23; 2356-26; 2345-2	0.165	0.112
58	24.08	5:2	081 087 117 125 115 145	0.5129	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.237	0.161
59	24.23	5:2	116 085 111	0.5161	23456; 234-24; 235-35	0.066	0.045
60	24.39	6:4	120 136	0.5195	245-35; 236-236	0.141	0.087
61	24.49	5:2	077 110 148	0.5216	34-34; 236-34; 235-246	0.441	0.300
62	24.77	6:3	154		245-246	-	-
63	24.85	5:2	082	0.5293	234-23	0.064	0.044
64	25.16	6:3	151	0.5359	2356-25	0.107	0.066
65	25.31	5:1 6:3	124 135	0.5391	345-25; 235-236	0.062	0.039
66	25.37	6:3	144	0.5404	2346-25	0.084	0.052
67	25.43	5:1 6:3	107 109 147	0.5416	234-35; 235-34; 2356-24	0.162	0.107
68	25.51	5:1	123		345-24	-	-
69	25.62	5:1 6:3	106 118 139 149	0.5457	2345-3; 245-34; 2346-24; 236-245	0.232	0.153
70	25.73	6:3	140		234-246	-	-
71	26.02	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.22	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.64	5:1 6:3	105 132 161	0.5674	234-34; 234-236; 2346-35	0.103	0.066
75	26.81	6:2	153		245-245	-	-
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.34	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.63	6:2	137		2345-24	-	-
80	27.78	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.01	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.19	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.40	6:2	126 129		345-34; 2345-23	-	-
85	28.75	7:3	166 178		23456-4; 2356-235	-	-
87	29.06	7:3	175 159		2346-235; 2345-35	-	-
88	29.21	7:3	182 187		2345-246; 2356-245	-	-
89	29.34	6:2	128 162		234-234; 235-345	-	-
90	29.52	7:3	183		2346-245	-	-
91	29.81	6:1	167		245-345	-	-
92	30.14	7:3	185		23456-25	-	-
93	30.51	7:3	174 181		2345-236; 23456-24	-	-
94	30.79	7:3	177		2356-234	-	-
95	31.09	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.36	8:4	157 202		234-345; 2356-2356	-	-
98	31.52	7:3	173		23456-23	-	-
99	31.90	8:4	201		2346-2356	-	-
100	32.16	7:2	172 204		2345-235; 23456-246	-	-
101	32.46	8:4	192 197		23456-35; 2346-2346	-	-
102	32.65	7:2	180		2345-245	-	-
103	32.90	7:2	193		2356-345	-	-
104	33.20	7:2	191		2346-345	-	-
105	33.56	8:4	200 169		23456-236; 345-345	-	-
106	34.74	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.02	7:2	<b>190</b>		23456-34	-	-
108	35.90	8:3	<b>198</b>		23456-235	-	-
109	36.14	8:3	<b>199</b>		2345-2356	-	-
110	36.69	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.86	7:1	<b>189</b>		2345-345	-	-
112	39.45	8:3	<b>195</b>		23456-234	-	-
113	39.97	9:4	<b>208</b>		23456-2356	-	-
114	40.93	9:4	<b>207</b>		23456-2346	-	-
115	42.37	8:2	<b>194</b>		2345-2345	-	-
116	43.27	8:2	<b>205</b>		23456-345	-	-
117	48.49	9:3	<b>206</b>		23456-2345	-	-
118	54.65	10:4	<b>209</b>		23456-23456	-	-

Concentration = 106 ng/L

Total Nanomoles = 0.478

Average Molecular Weight = 221.9

Number of Calibrated Peaks Found = 56

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

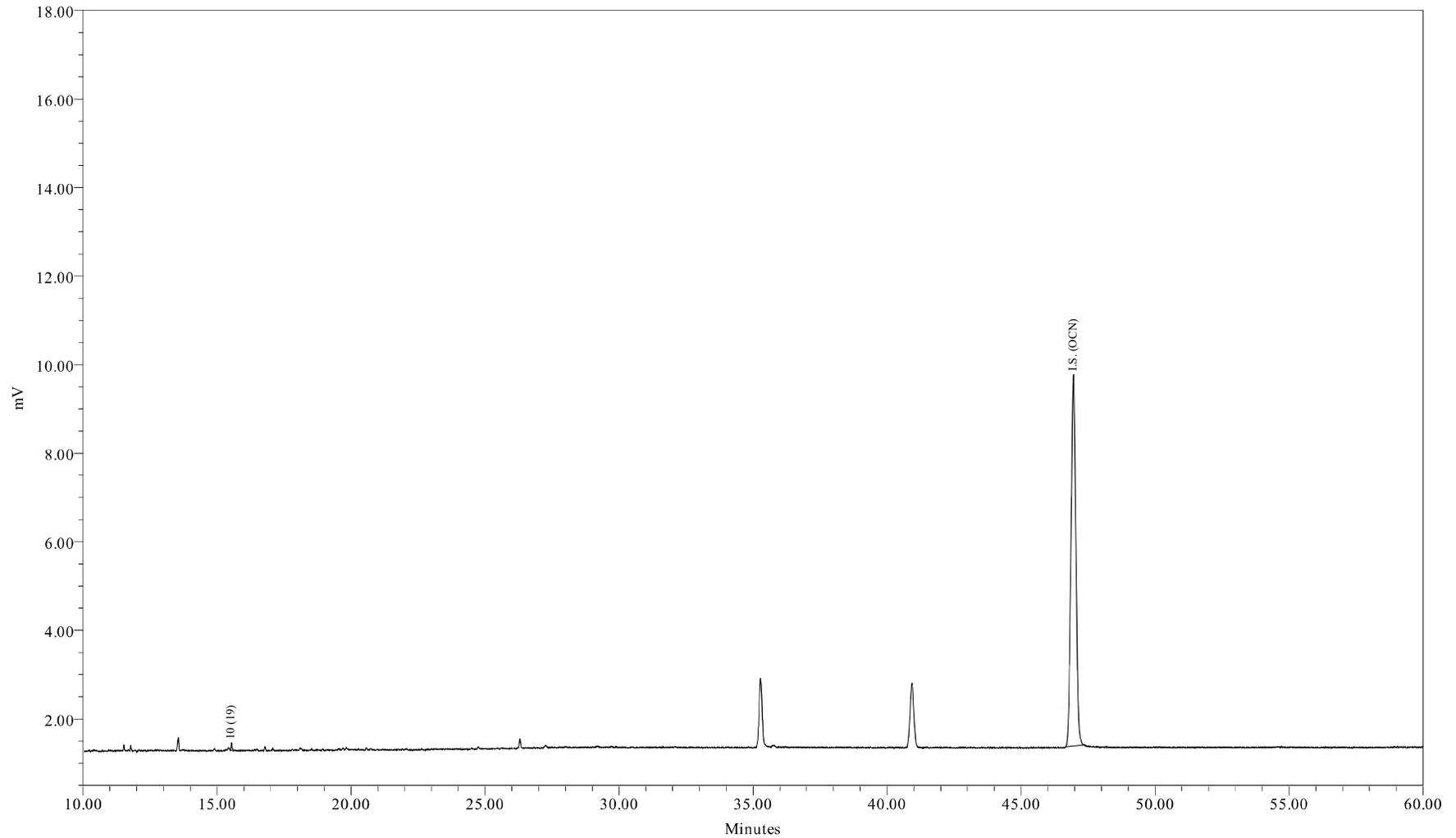
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM08569DL1  
Sample ID: WFF-SCHU-090624-AT001  
Date Acquired: 6/25/2009 6:32:55 AM EDT

Sample Amount (L) : 0.9600  
Dilution: 50  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-713-5

Sample Name: AM08569DL1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 06:32:55  
 Lab Sample ID: AM08569DL1  
 LRF ID: 09060293-02DL1  
 Lab File ID: GC16-713-5

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 7.21 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	0.00	0.00
Tri	100.00	100.00
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 3.00

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 3.00

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Not applicable

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 06:32:55  
 Lab Sample ID: AM08569DL1  
 LRF ID: 09060293-02DL1  
 Lab File ID: GC16-713-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.78	188.7				5.51	22.8	U
3	12.82	188.7				69.0	10400	U
4	12.93	188.7				3.70	13.3	U
5	13.53	223.1				1.40	6.47	U
6	14.40	223.1				0.751	2.28	U
7	14.71	223.1				1.65	3.62	U
8	14.90	223.1				5.65	26.6	U
9	15.46	223.1				3.06	260	U
10	15.54	257.5	462	7.21	28.0	0.629	1.07	
11	16.01	257.5				2.07	260	U
12	16.08	223.1				3.19	260	U
13	16.28	223.1				0.582	1.02	U
14	16.40	249.0				1.33	7.04	U
15	16.49	257.5				1.49	7.04	U
16	16.79	257.5				0.390	0.495	U
17	17.04	257.5				1.73	7.42	U
19	17.51	267.9				1.34	260	U
20	17.69	257.5				0.112	0.202	U
21	17.82	257.5				0.631	1.37	U
22	17.90	257.5				0.444	0.609	U
23	18.10	257.5				5.08	7.85	U
24	18.14	257.5				2.20	10.0	U
25	18.50	259.5				1.10	7.56	U
26	18.73	258.7				1.25	5.52	U
27	18.96	292.0				0.382	1.69	U
28	19.10	257.5				3.91	260	U
29	19.23	292.0				1.32	1.32	U
30	19.36	257.5				1.25	260	U
31	19.53	292.0				2.12	9.08	U
32	19.70	292.0				1.02	4.38	U
33	19.82	292.0				0.683	1.90	U
34	19.88	292.0				0.603	1.90	U
35	20.02	292.0				2.13	260	U
36	20.10	257.5				1.50	260	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.27	292.0				1.67	8.19	U
38	20.40	272.4				1.19	4.95	U
39	20.75	292.0				1.27	7.80	U
41	20.92	326.4				1.19	260	U
42	21.02	292.0				1.01	1.79	U
43	21.27	298.9				1.59	260	U
44	21.44	298.9				0.235	0.419	U
45	21.60	292.0				0.312	0.400	U
46	21.77	292.0				0.855	3.62	U
47	21.90	292.0				1.70	6.47	U
48	22.02	293.5				2.54	13.7	U
49	22.32	324.7				0.392	0.971	U
50	22.63	292.0				3.74	6.66	U
51	22.87	326.4				0.925	3.43	U
52	22.97	326.4				0.400	0.400	U
53	23.12	326.4				0.719	3.43	U
54	23.32	326.4				1.06	1.41	U
55	23.60	326.4				0.0671	0.107	U
56	23.69	326.4				0.674	0.674	U
57	23.91	326.4				0.453	1.07	U
58	24.08	326.4				0.877	2.21	U
59	24.24	326.4				0.504	1.33	U
60	24.36	360.9				0.804	1.43	U
61	24.49	326.4				0.696	4.05	U
62	24.77	360.9				1.18	260	U
63	24.86	326.4				0.209	0.837	U
64	25.15	360.9				0.540	3.24	U
65	25.29	350.5				0.156	0.552	U
66	25.36	360.9				0.563	1.14	U
67	25.42	336.8				0.363	0.495	U
68	25.52	326.4				1.30	260	U
69	25.61	337.5				0.977	7.61	U
70	25.73	360.9				0.863	260	U
71	26.02	347.8				0.363	0.384	U
72	26.22	336.8				0.0665	0.111	U
73	26.52	360.9				0.333	0.743	U
74	26.65	347.8				0.751	2.58	U
75	26.81	360.9				1.14	5.61	U
76	26.92	360.9				1.12	260	U
77	27.34	360.9				0.664	3.24	U
78	27.42	395.3				0.490	2.78	U
79	27.63	360.9				0.522	0.522	U
80	27.78	360.9				0.157	0.495	U
82	28.01	360.9				1.12	5.14	U
83	28.19	360.9				0.468	0.476	U
84	28.40	360.9				0.0322	0.0493	U
85	28.75	395.3				0.706	2.09	U
87	29.06	395.3				0.163	0.762	U
88	29.21	395.3				1.06	6.85	U
89	29.34	360.9				0.208	0.381	U
90	29.52	395.3				0.707	3.24	U
91	29.81	360.9				0.362	0.362	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.14	394.3				0.234	0.894	U
93	30.51	394.3				1.07	6.09	U
94	30.79	394.3				0.975	3.24	U
95	31.09	382.2				0.908	1.50	U
96	31.36	429.8				0.0981	0.126	U
98	31.52	395.3				0.139	0.145	U
99	31.90	429.8				0.899	0.899	U
100	32.16	395.3				1.32	1.32	U
101	32.46	429.8				2.26	2.26	U
102	32.65	395.3				1.57	11.6	U
103	32.90	395.3				0.666	0.799	U
104	33.20	395.3				0.390	0.457	U
105	33.56	429.8				0.480	0.818	U
106	34.74	395.3				0.561	2.44	U
107	35.02	395.3				0.222	0.799	U
108	35.90	429.8				0.337	0.457	U
109	36.14	429.8				1.20	7.99	U
110	36.69	429.8				1.92	8.19	U
111	37.86	395.3				0.240	0.240	U
112	39.45	429.8				0.383	1.05	U
113	39.97	464.2				0.456	0.941	U
114	40.93	464.2				0.160	0.354	U
115	42.37	429.8				1.01	3.43	U
116	43.27	429.8				0.873	0.873	U
117	48.49	464.2				0.400	1.29	U
118	54.65	498.6				0.131	0.131	U

Total Concentration = 7.21 ng/L

94.8

335

Total Nanomoles = 0.028

Average Molecular Weight = 257.5

Number of Calibrated Peaks Found = 1

Internal Standard Retention Time = 46.96 minutes

Internal Standard Peak Area = 105910.7

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Not applicable

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 06:32:55  
 Lab Sample ID: AM08569DL1  
 LRF ID: 09060293-02DL1  
 Lab File ID: GC16-713-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001		2	-	-
3	12.82	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.53	2:2	004 010		2-2; 26	-	-
6	14.40	2:1	007 009		24; 25	-	-
7	14.71	2:1	006		2-3	-	-
8	14.90	2:1	005 008		23; 2-4	-	-
9	15.46	2:0	014		35	-	-
10	15.54	3:3	019	0.3309	26-2	100.000	100.000
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.28	2:0	012 013		34; 3-4	-	-
14	16.40	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.49	3:2	017		24-2	-	-
16	16.79	3:2	024 027		236; 26-3	-	-
17	17.04	3:2	016 032		23-2; 26-4	-	-
19	17.51	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.69	3:1	029		245	-	-
21	17.82	3:1	026		25-3	-	-
22	17.90	3:1	025		24-3	-	-
23	18.10	3:1	031		25-4	-	-
24	18.14	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.50	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.73	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.96	4:3	045		236-2	-	-
28	19.10	3:0	036		35-3	-	-
29	19.23	4:3	046		23-26	-	-
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.70	4:2	043 049		235-2; 24-25	-	-
33	19.82	4:2	038 047		345; 24-24	-	-
34	19.88	4:2	048 075		245-2; 246-4	-	-
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.10	3:0	035		34-3	-	-
37	20.27	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.40	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.75	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.92	5:4	068 096		24-35; 236-26	-	-
42	21.02	4:2	040		23-23	-	-
43	21.27	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.44	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.60	4:1	063		235-4	-	-
46	21.77	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.90	4:1	070		25-34	-	-
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.32	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.63	4:1	056 060		23-34; 234-4	-	-
51	22.87	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.97	5:3	089		234-26	-	-
53	23.12	5:2	090 101		235-24; 245-25	-	-
54	23.32	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.60	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.69	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.91	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	24.08	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.24	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.36	6:4	120 136		245-35; 236-236	-	-
61	24.49	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.77	6:3	154		245-246	-	-
63	24.86	5:2	082		234-23	-	-
64	25.15	6:3	151		2356-25	-	-
65	25.29	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.36	6:3	144		2346-25	-	-
67	25.42	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.52	5:1	123		345-24	-	-
69	25.61	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.73	6:3	140		234-246	-	-
71	26.02	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.22	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.65	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.81	6:2	153		245-245	-	-
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.34	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.63	6:2	137		2345-24	-	-
80	27.78	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.01	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.19	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.40	6:2	126 129		345-34; 2345-23	-	-
85	28.75	7:3	166 178		23456-4; 2356-235	-	-
87	29.06	7:3	175 159		2346-235; 2345-35	-	-
88	29.21	7:3	182 187		2345-246; 2356-245	-	-
89	29.34	6:2	128 162		234-234; 235-345	-	-
90	29.52	7:3	183		2346-245	-	-
91	29.81	6:1	167		245-345	-	-
92	30.14	7:3	185		23456-25	-	-
93	30.51	7:3	174 181		2345-236; 23456-24	-	-
94	30.79	7:3	177		2356-234	-	-
95	31.09	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.36	8:4	157 202		234-345; 2356-2356	-	-
98	31.52	7:3	173		23456-23	-	-
99	31.90	8:4	201		2346-2356	-	-
100	32.16	7:2	172 204		2345-235; 23456-246	-	-
101	32.46	8:4	192 197		23456-35; 2346-2346	-	-
102	32.65	7:2	180		2345-245	-	-
103	32.90	7:2	193		2356-345	-	-
104	33.20	7:2	191		2346-345	-	-
105	33.56	8:4	200 169		23456-236; 345-345	-	-
106	34.74	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.02	7:2	<b>190</b>		23456-34	-	-
108	35.90	8:3	<b>198</b>		23456-235	-	-
109	36.14	8:3	<b>199</b>		2345-2356	-	-
110	36.69	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.86	7:1	<b>189</b>		2345-345	-	-
112	39.45	8:3	<b>195</b>		23456-234	-	-
113	39.97	9:4	<b>208</b>		23456-2356	-	-
114	40.93	9:4	<b>207</b>		23456-2346	-	-
115	42.37	8:2	<b>194</b>		2345-2345	-	-
116	43.27	8:2	<b>205</b>		23456-345	-	-
117	48.49	9:3	<b>206</b>		23456-2345	-	-
118	54.65	10:4	<b>209</b>		23456-23456	-	-

Concentration = 7.21 ng/L

Total Nanomoles = 0.028

Average Molecular Weight = 257.5

Number of Calibrated Peaks Found = 1

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Not applicable

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 1030 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 0.5 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: Agilent DB-1; 30 meter; 0.25 micron phase thickness

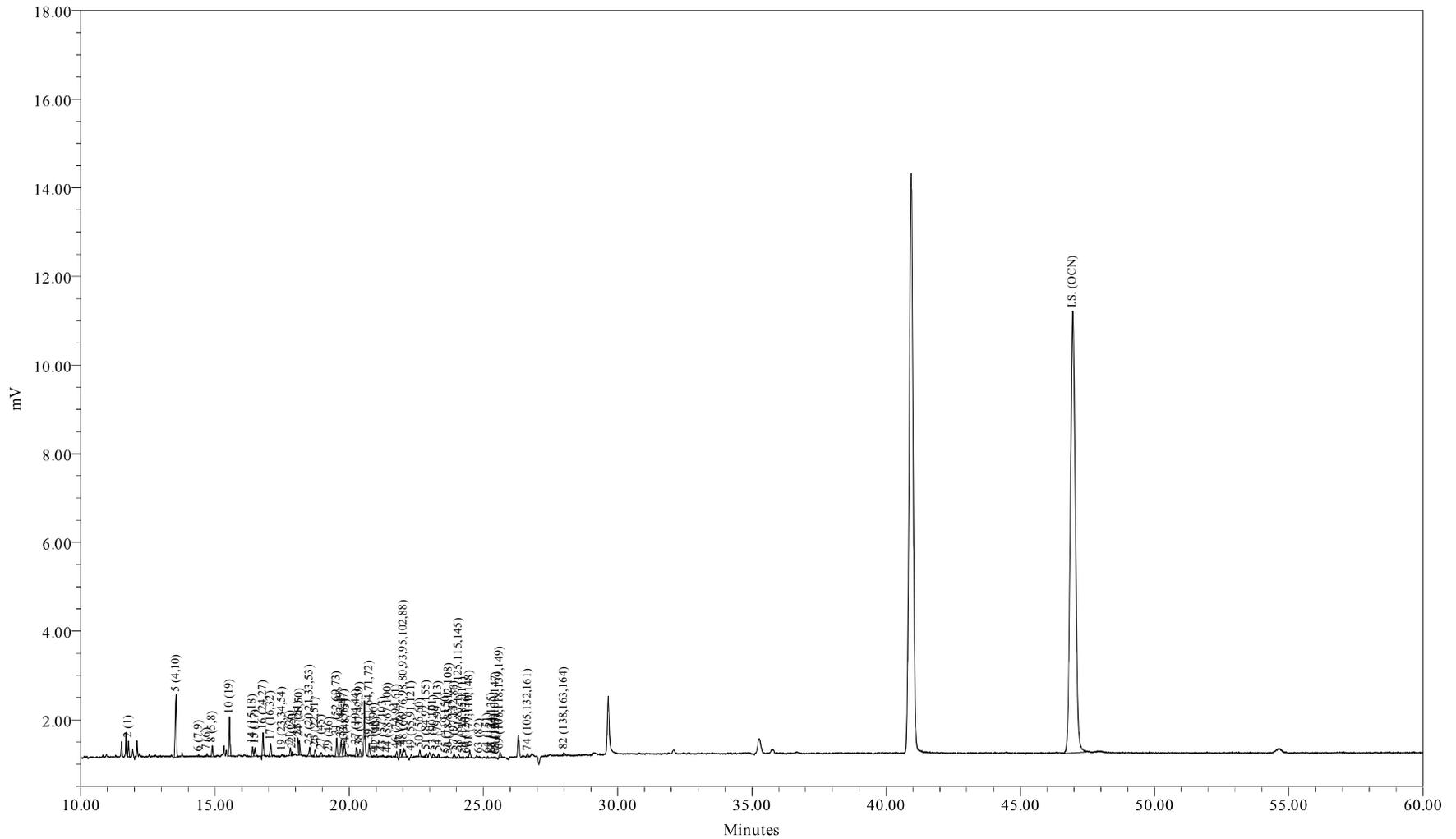
SDG No: 09060293  
LRF ID: 09060293-05  
Client ID: WFF-WAFA-090624-AT001  
Lab Sample ID: AM08572  
Lab File ID: GC16-713-7  
Date Received: 06/24/2009  
Date Extracted: 06/24/2009  
Date/Time Analyzed: 06/25/2009 08:47  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 128910

Percent Recovery (50 - 150 %): 135

SAMPLE TOTAL PCB CONCENTRATION: 47.1 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM08572  
Sample ID: WFF-WAFA-090624-AT001  
Date Acquired: 6/25/2009 8:47:28 AM EDT

Sample Amount (L): 1.0300  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-713-7

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 08:47:28  
 Lab Sample ID: AM08572  
 LRF ID: 09060293-05  
 Lab File ID: GC16-713-7

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 47.1 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	20.90	25.62
Di	40.22	41.65
Tri	21.82	19.60
Tetra	12.32	9.80
Penta	4.32	3.06
Hexa	0.42	0.28
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	9.8467	85.4	85.9
A1242	23+24/31+28	1.4117	12.2	12.3
A1254SED	61/100	0.2698	2.34	
A1254BIO	69+75+82/149+153+138	0.2112		1.84
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.70

Meta + Para Cl / biphenyl Residue = 0.54

Total Cl / biphenyl Residue = 2.24

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 08:47:28  
 Lab Sample ID: AM08572  
 LRF ID: 09060293-05  
 Lab File ID: GC16-713-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.78	188.7	620	9.85	52.2	0.529	2.19	
3	12.82	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.55	223.1	4480	18.0	80.5	0.134	0.621	B
6	14.40	223.1	109	0.102	0.455	0.0721	0.219	J
7	14.70	223.1	111			0.158	0.347	U
8	14.90	223.1	640	0.684	3.07	0.542	2.56	J
9	15.46	223.1				0.294	25.0	U
10	15.54	257.5	2177	2.64	10.3	0.0604	0.102	
11	16.01	257.5				0.198	25.0	U
12	16.08	223.1				0.306	25.0	U
13	16.28	223.1				0.0559	0.0975	U
14	16.40	249.0	623	0.856	3.44	0.128	0.676	
15	16.49	257.5	543	1.19	4.63	0.143	0.676	B
16	16.79	257.5	1228	0.965	3.75	0.0374	0.0475	B
17	17.08	257.5	899	1.22	4.72	0.166	0.713	
19	17.50	267.9	84			0.128	25.0	U
20	17.69	257.5				0.0108	0.0194	U
21	17.81	257.5	421	0.491	1.91	0.0606	0.132	B
22	17.89	257.5	203	0.170	0.660	0.0426	0.0585	B
23	18.09	257.5	1103	0.914	3.55	0.487	0.753	
24	18.15	257.5	832	0.497	1.93	0.211	0.964	J
25	18.53	259.5	771	0.733	2.82	0.105	0.726	
26	18.73	258.7	509	0.554	2.14	0.120	0.530	
27	18.95	292.0	300	0.273	0.935	0.0367	0.163	
28	19.10	257.5				0.375	25.0	U
29	19.25	292.0	145	0.165	0.566	0.127	0.127	
30	19.36	257.5				0.120	25.0	U
31	19.53	292.0	1206	1.46	5.01	0.204	0.872	
32	19.70	292.0	1160	0.673	2.31	0.0978	0.420	
33	19.82	292.0	1079	0.496	1.70	0.0656	0.183	
34	19.87	292.0	299	0.141	0.484	0.0579	0.183	J
35	20.02	292.0				0.205	25.0	U
36	20.10	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.27	292.0	646	0.424	1.45	0.160	0.786	J
38	20.40	272.4	612	0.573	2.10	0.115	0.475	
39	20.75	292.0	1048	0.617	2.11	0.121	0.749	J
41	20.93	326.4	117	0.125	0.381	0.115	25.0	J
42	21.02	292.0	194	0.176	0.603	0.0968	0.172	
43	21.26	298.9	49			0.152	25.0	U
44	21.44	298.9	43	0.0291	0.0974	0.0225	0.0402	J
45	21.60	292.0				0.0299	0.0384	U
46	21.77	292.0	367	0.152	0.521	0.0821	0.347	J
47	21.90	292.0	517	0.175	0.599	0.164	0.621	J
48	22.03	293.5	1136	0.748	2.55	0.243	1.32	J
49	22.31	324.7	188	0.152	0.468	0.0376	0.0932	
50	22.63	292.0	419			0.359	0.640	U
51	22.88	326.4	386	0.585	1.79	0.0888	0.329	
52	22.97	326.4				0.0384	0.0384	U
53	23.13	326.4	289	0.134	0.410	0.0691	0.329	J
54	23.32	326.4	226			0.101	0.135	U
55	23.61	326.4	24	0.00811	0.0248	0.00644	0.0102	J
56	23.71	326.4	14			0.0647	0.0647	U
57	23.91	326.4	396	0.215	0.659	0.0435	0.102	B
58	24.07	326.4	344	0.216	0.662	0.0841	0.212	
59	24.24	326.4	179	0.0912	0.279	0.0484	0.128	J
60	24.36	360.9	80			0.0772	0.137	U
61	24.49	326.4	470	0.270	0.827	0.0668	0.389	J
62	24.77	360.9				0.113	25.0	U
63	24.84	326.4	87	0.0363	0.111	0.0201	0.0804	JB
64	25.15	360.9	129			0.0518	0.311	U
65	25.31	350.5	81	0.0282	0.0803	0.0149	0.0530	JB
66	25.39	360.9	60	0.0698	0.194	0.0541	0.110	JB
67	25.45	336.8	84	0.0740	0.220	0.0348	0.0475	B
68	25.47	326.4	50			0.125	25.0	U
69	25.62	337.5	456	0.119	0.353	0.0938	0.731	J
70	25.73	360.9				0.0829	25.0	U
71	26.02	347.8				0.0348	0.0369	U
72	26.22	336.8				0.00638	0.0106	U
73	26.52	360.9				0.0320	0.0713	U
74	26.65	347.8	186	0.0784	0.225	0.0721	0.248	J
75	26.81	360.9				0.109	0.538	U
76	26.92	360.9				0.107	25.0	U
77	27.34	360.9				0.0637	0.311	U
78	27.42	395.3				0.0470	0.267	U
79	27.63	360.9				0.0501	0.0501	U
80	27.78	360.9				0.0151	0.0475	U
82	28.00	360.9	276			0.108	0.493	U
83	28.19	360.9				0.0450	0.0457	U
84	28.40	360.9				0.00310	0.00473	U
85	28.75	395.3				0.0677	0.201	U
87	29.06	395.3				0.0156	0.0731	U
88	29.21	395.3				0.102	0.658	U
89	29.34	360.9				0.0199	0.0366	U
90	29.52	395.3				0.0679	0.311	U
91	29.81	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.14	394.3				0.0225	0.0859	U
93	30.51	394.3				0.102	0.585	U
94	30.79	394.3				0.0936	0.311	U
95	31.09	382.2				0.0871	0.144	U
96	31.36	429.8				0.00942	0.0121	U
98	31.52	395.3				0.0133	0.0139	U
99	31.90	429.8				0.0863	0.0863	U
100	32.16	395.3				0.127	0.127	U
101	32.46	429.8				0.217	0.217	U
102	32.65	395.3				0.150	1.11	U
103	32.90	395.3				0.0640	0.0768	U
104	33.20	395.3				0.0374	0.0438	U
105	33.56	429.8				0.0460	0.0786	U
106	34.74	395.3				0.0538	0.234	U
107	35.02	395.3				0.0213	0.0768	U
108	35.90	429.8				0.0324	0.0438	U
109	36.14	429.8				0.116	0.768	U
110	36.69	429.8				0.184	0.786	U
111	37.86	395.3				0.0231	0.0231	U
112	39.45	429.8				0.0368	0.101	U
113	39.97	464.2				0.0438	0.0903	U
114	40.93	464.2				0.0154	0.0340	U
115	42.37	429.8				0.0969	0.329	U
116	43.27	429.8				0.0838	0.0838	U
117	48.49	464.2				0.0384	0.124	U
118	54.65	498.6				0.0126	0.0126	U

Total Concentration = 47.1 ng/L

9.10 32.2

Total Nanomoles = 0.204

Average Molecular Weight = 231.3

Number of Calibrated Peaks Found = 54

Internal Standard Retention Time = 46.95 minutes

Internal Standard Peak Area = 128909.9

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 08:47:28  
 Lab Sample ID: AM08572  
 LRF ID: 09060293-05  
 Lab File ID: GC16-713-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	0.2509	2	20.895	25.615
3	12.82	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.55	2:2	004 010	0.2886	2-2; 26	38.104	39.508
6	14.40	2:1	007 009	0.3067	24; 25	0.216	0.223
7	14.70	2:1	006		2-3	-	-
8	14.90	2:1	005 008	0.3174	23; 2-4	1.451	1.505
9	15.46	2:0	014		35	-	-
10	15.54	3:3	019	0.3310	26-2	5.603	5.034
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.28	2:0	012 013		34; 3-4	-	-
14	16.40	2:0 3:2	015 018	0.3493	4-4; 25-2	1.817	1.688
15	16.49	3:2	017	0.3512	24-2	2.530	2.273
16	16.79	3:2	024 027	0.3576	236; 26-3	2.047	1.839
17	17.08	3:2	016 032	0.3638	23-2; 26-4	2.579	2.317
19	17.50	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.69	3:1	029		245	-	-
21	17.81	3:1	026	0.3793	25-3	1.042	0.936
22	17.89	3:1	025	0.3810	24-3	0.361	0.324
23	18.09	3:1	031	0.3853	25-4	1.941	1.743
24	18.15	3:1 4:3	028 050	0.3866	24-4; 246-2	1.055	0.948
25	18.53	3:1 4:3	020 021 033 053	0.3947	23-3; 234; 34-2; 25-26	1.555	1.386
26	18.73	3:1 4:3	022 051	0.3989	23-4; 24-26	1.175	1.050
27	18.95	4:3	045	0.4036	236-2	0.580	0.459
28	19.10	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4100	23-26	0.351	0.278
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.106	2.461
32	19.70	4:2	043 049	0.4196	235-2; 24-25	1.428	1.132
33	19.82	4:2	038 047	0.4222	345; 24-24	1.053	0.834
34	19.87	4:2	048 075	0.4232	245-2; 246-4	0.300	0.237
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.10	3:0	035		34-3	-	-
37	20.27	5:4 4:2	104 044	0.4317	246-26; 23-25	0.899	0.713
38	20.40	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.216	1.033
39	20.75	4:2	041 064 071 072	0.4420	234-2; 236-4; 26-34; 25-35	1.309	1.037

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
41	20.93	5:4	068 096	0.4458	24-35; 236-26	0.264	0.187
42	21.02	4:2	040	0.4477	23-23	0.374	0.296
43	21.26	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.44	4:1 5:3	058 067 100	0.4567	23-35; 245-3; 246-24	0.062	0.048
45	21.60	4:1	063		235-4	-	-
46	21.77	4:1 5:3	074 094 061	0.4637	245-4; 235-26; 2345	0.323	0.256
47	21.90	4:1	070	0.4665	25-34	0.371	0.294
48	22.03	4:1 5:3	066 076 098 080 093 095 102 088	0.4692	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	1.587	1.251
49	22.31	4:1 5:3	055 091 121	0.4752	234-3; 236-24; 246-35	0.322	0.230
50	22.63	4:1	056 060		23-34; 234-4	-	-
51	22.88	5:3 6:4	084 092 155	0.4873	236-23; 235-25; 246-246	1.241	0.880
52	22.97	5:3	089		234-26	-	-
53	23.13	5:2	090 101	0.4927	235-24; 245-25	0.284	0.201
54	23.32	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.61	5:2 6:4	119 150	0.5029	246-34; 236-246	0.017	0.012
56	23.71	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.91	5:2 6:4	097 152 086	0.5093	245-23; 2356-26; 2345-2	0.457	0.324
58	24.07	5:2	081 087 117 125 115 145	0.5127	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.459	0.325
59	24.24	5:2	116 085 111	0.5163	23456; 234-24; 235-35	0.194	0.137
60	24.36	6:4	120 136		245-35; 236-236	-	-
61	24.49	5:2	077 110 148	0.5216	34-34; 236-34; 235-246	0.573	0.406
62	24.77	6:3	154		245-246	-	-
63	24.84	5:2	082	0.5291	234-23	0.077	0.055
64	25.15	6:3	151		2356-25	-	-
65	25.31	5:1 6:3	124 135	0.5391	345-25; 235-236	0.060	0.039
66	25.39	6:3	144	0.5408	2346-25	0.148	0.095
67	25.45	5:1 6:3	107 109 147	0.5421	234-35; 235-34; 2356-24	0.157	0.108
68	25.47	5:1	123		345-24	-	-
69	25.62	5:1 6:3	106 118 139 149	0.5457	2345-3; 245-34; 2346-24; 236-245	0.253	0.173
70	25.73	6:3	140		234-246	-	-
71	26.02	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.22	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.65	5:1 6:3	105 132 161	0.5676	234-34; 234-236; 2346-35	0.166	0.111
75	26.81	6:2	153		245-245	-	-
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.34	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.63	6:2	137		2345-24	-	-
80	27.78	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.00	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.19	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.40	6:2	126 129		345-34; 2345-23	-	-
85	28.75	7:3	166 178		23456-4; 2356-235	-	-
87	29.06	7:3	175 159		2346-235; 2345-35	-	-
88	29.21	7:3	182 187		2345-246; 2356-245	-	-
89	29.34	6:2	128 162		234-234; 235-345	-	-
90	29.52	7:3	183		2346-245	-	-
91	29.81	6:1	167		245-345	-	-
92	30.14	7:3	185		23456-25	-	-
93	30.51	7:3	174 181		2345-236; 23456-24	-	-
94	30.79	7:3	177		2356-234	-	-
95	31.09	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.36	8:4	157 202		234-345; 2356-2356	-	-
98	31.52	7:3	173		23456-23	-	-
99	31.90	8:4	201		2346-2356	-	-
100	32.16	7:2	172 204		2345-235; 23456-246	-	-
101	32.46	8:4	192 197		23456-35; 2346-2346	-	-
102	32.65	7:2	180		2345-245	-	-
103	32.90	7:2	193		2356-345	-	-
104	33.20	7:2	191		2346-345	-	-
105	33.56	8:4	200 169		23456-236; 345-345	-	-
106	34.74	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.02	7:2	<b>190</b>		23456-34	-	-
108	35.90	8:3	<b>198</b>		23456-235	-	-
109	36.14	8:3	<b>199</b>		2345-2356	-	-
110	36.69	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.86	7:1	<b>189</b>		2345-345	-	-
112	39.45	8:3	<b>195</b>		23456-234	-	-
113	39.97	9:4	<b>208</b>		23456-2356	-	-
114	40.93	9:4	<b>207</b>		23456-2346	-	-
115	42.37	8:2	<b>194</b>		2345-2345	-	-
116	43.27	8:2	<b>205</b>		23456-345	-	-
117	48.49	9:3	<b>206</b>		23456-2345	-	-
118	54.65	10:4	<b>209</b>		23456-23456	-	-

Concentration = 47.1 ng/L

Total Nanomoles = 0.204

Average Molecular Weight = 231.3

Number of Calibrated Peaks Found = 54

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09060293</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>09060293-06</u>
Matrix:	<u>Water</u>	Client ID:	<u>WFF-WAFO-090624-AT001</u>
Sample Wt(Dry)/Vol:	<u>940 mL</u>	Lab Sample ID:	<u>AM08573</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC16-713-9</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u>06/24/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>06/24/2009</u>
Injection Volume:	<u>0.5 uL</u>	Date/Time Analyzed:	<u>06/25/2009 11:02</u>
Analytical SOP Reference:	<u>SOP NE207_03</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>Agilent DB-1; 30 meter; 0.25 micron phase thickness</u>		

OCN (I.S.) Peak Area: 128223

Percent Recovery (50 - 150 %): 135

SAMPLE TOTAL PCB CONCENTRATION: 48.7 ng/L

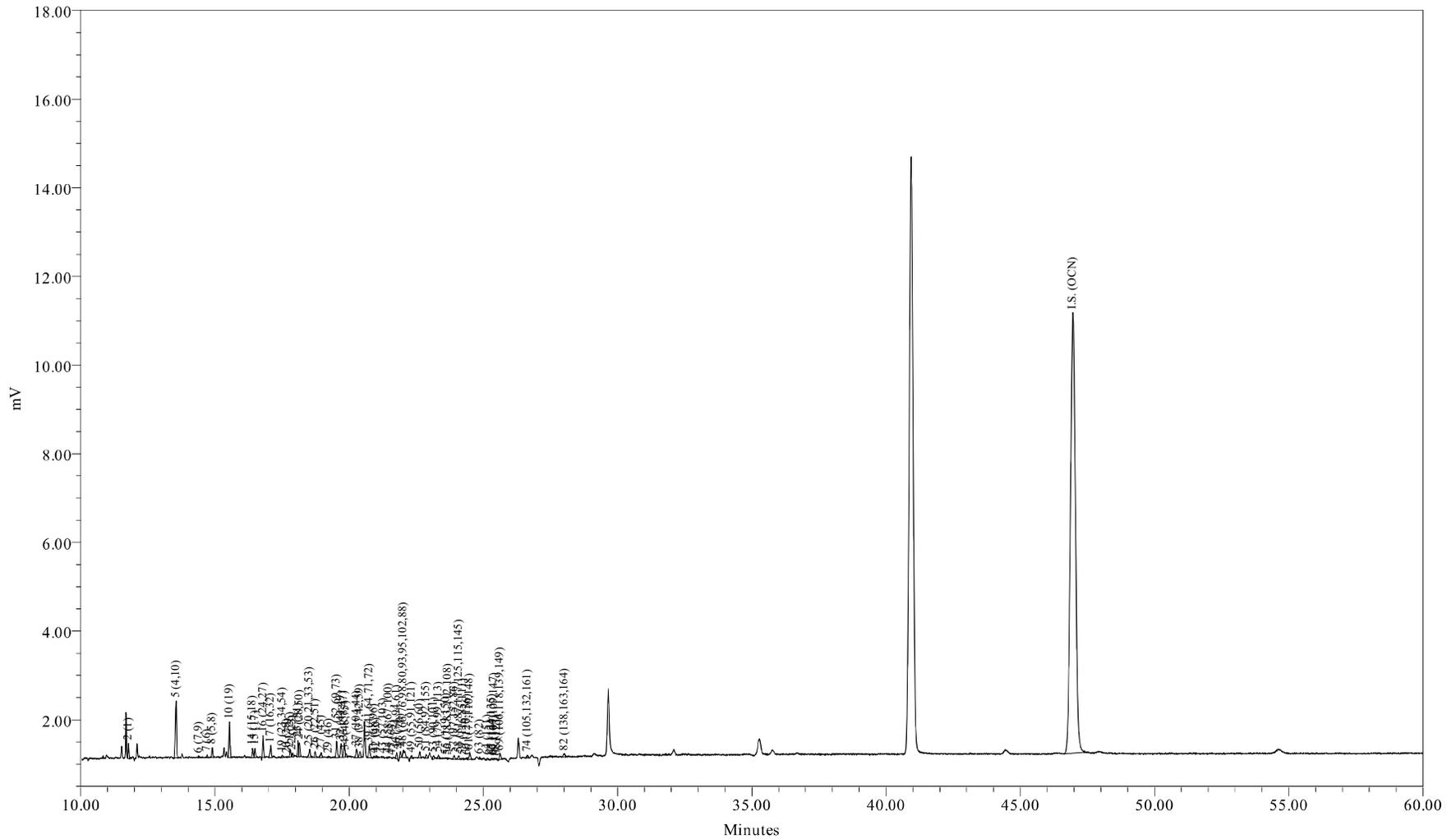
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM08573  
Sample ID: WFF-WAFO-090624-AT001  
Date Acquired: 6/25/2009 11:02:06 AM EDT

Sample Amount (L) : 0.9400  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-713-9

Sample Name: AM08573

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 11:02:06  
 Lab Sample ID: AM08573  
 LRF ID: 09060293-06  
 Lab File ID: GC16-713-9

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 48.7 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	23.46	28.66
Di	37.39	38.58
Tri	22.25	19.91
Tetra	11.44	9.06
Penta	4.48	3.16
Hexa	0.98	0.64
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	11.4203	86.3	86.6
A1242	23+24/31+28	1.4665	11.1	11.1
A1254SED	61/100	0.3475	2.63	
A1254BIO	69+75+82/149+153+138	0.3037		2.30
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.69

Meta + Para Cl / biphenyl Residue = 0.52

Total Cl / biphenyl Residue = 2.21

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 11:02:06  
 Lab Sample ID: AM08573  
 LRF ID: 09060293-06  
 Lab File ID: GC16-713-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.78	188.7	653	11.4	60.5	0.562	2.33	
3	12.82	188.7				7.05	1060	U
4	12.93	188.7				0.378	1.36	U
5	13.55	223.1	4010	17.7	79.4	0.143	0.661	B
6	14.40	223.1	94	0.0957	0.429	0.0767	0.233	J
7	14.71	223.1	114	0.177	0.794	0.168	0.369	J
8	14.90	223.1	508			0.577	2.72	U
9	15.46	223.1				0.313	26.6	U
10	15.54	257.5	2035	2.72	10.6	0.0642	0.109	
11	16.01	257.5				0.211	26.6	U
12	16.08	223.1				0.326	26.6	U
13	16.28	223.1				0.0594	0.104	U
14	16.40	249.0	592	0.890	3.57	0.136	0.719	
15	16.49	257.5	544	1.32	5.12	0.152	0.719	B
16	16.79	257.5	1190	1.03	4.00	0.0398	0.0505	B
17	17.08	257.5	835	1.24	4.81	0.176	0.758	
19	17.51	267.9	163	0.210	0.783	0.136	26.6	J
20	17.68	257.5	23	0.0205	0.0796	0.0115	0.0206	J
21	17.81	257.5	456	0.586	2.28	0.0645	0.140	B
22	17.89	257.5	236	0.218	0.846	0.0453	0.0622	B
23	18.10	257.5	981	0.877	3.41	0.519	0.802	
24	18.15	257.5	880	0.589	2.29	0.224	1.03	J
25	18.53	259.5	695	0.719	2.77	0.112	0.772	J
26	18.73	258.7	402	0.477	1.84	0.127	0.564	J
27	18.95	292.0	330	0.334	1.14	0.0390	0.173	
28	19.10	257.5				0.399	26.6	U
29	19.23	292.0	111	0.140	0.479	0.135	0.135	
30	19.36	257.5				0.128	26.6	U
31	19.53	292.0	1106	1.47	5.02	0.217	0.927	
32	19.70	292.0	1006	0.625	2.14	0.104	0.447	
33	19.82	292.0	952	0.476	1.63	0.0698	0.194	
34	19.87	292.0	218	0.0976	0.334	0.0615	0.194	J
35	20.02	292.0				0.218	26.6	U
36	20.10	257.5				0.154	26.6	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.28	292.0	633	0.455	1.56	0.171	0.836	J
38	20.40	272.4	496	0.492	1.81	0.122	0.505	J
39	20.75	292.0	980	0.628	2.15	0.129	0.797	J
41	20.92	326.4	136	0.160	0.491	0.122	26.6	J
42	21.02	292.0	199	0.199	0.681	0.103	0.183	
43	21.27	298.9	86			0.162	26.6	U
44	21.48	298.9	57	0.0417	0.139	0.0240	0.0428	J
45	21.61	292.0	7			0.0318	0.0408	U
46	21.77	292.0	384	0.177	0.607	0.0873	0.369	J
47	21.91	292.0	338			0.174	0.661	U
48	22.02	293.5	930	0.625	2.13	0.259	1.40	J
49	22.33	324.7	160	0.145	0.446	0.0400	0.0992	
50	22.63	292.0	453			0.382	0.680	U
51	22.87	326.4	318	0.529	1.62	0.0945	0.350	
52	22.97	326.4				0.0408	0.0408	U
53	23.14	326.4	242	0.110	0.337	0.0735	0.350	J
54	23.32	326.4	276	0.131	0.401	0.108	0.144	J
55	23.61	326.4	24	0.00900	0.0276	0.00685	0.0109	J
56	23.68	326.4	47			0.0688	0.0688	U
57	23.91	326.4	324	0.192	0.587	0.0462	0.109	B
58	24.09	326.4	300	0.205	0.628	0.0895	0.226	J
59	24.24	326.4	114	0.0617	0.189	0.0515	0.136	J
60	24.40	360.9	138	0.122	0.338	0.0821	0.146	J
61	24.49	326.4	534	0.348	1.06	0.0711	0.414	J
62	24.77	360.9				0.120	26.6	U
63	24.85	326.4	126	0.0664	0.203	0.0214	0.0855	JB
64	25.15	360.9	129			0.0551	0.330	U
65	25.31	350.5	58	0.0200	0.0571	0.0159	0.0564	JB
66	25.37	360.9	63	0.0805	0.223	0.0575	0.117	JB
67	25.40	336.8	66	0.0652	0.194	0.0371	0.0505	B
68	25.50	326.4	31			0.133	26.6	U
69	25.62	337.5	503	0.164	0.485	0.0998	0.778	J
70	25.73	360.9				0.0882	26.6	U
71	26.02	347.8				0.0370	0.0393	U
72	26.22	336.8				0.00679	0.0113	U
73	26.52	360.9				0.0340	0.0758	U
74	26.64	347.8	171	0.0785	0.226	0.0767	0.263	J
75	26.81	360.9				0.116	0.573	U
76	26.92	360.9				0.114	26.6	U
77	27.34	360.9				0.0678	0.330	U
78	27.42	395.3				0.0500	0.284	U
79	27.63	360.9				0.0533	0.0533	U
80	27.78	360.9				0.0160	0.0505	U
82	28.01	360.9	337	0.140	0.388	0.115	0.525	J
83	28.19	360.9				0.0478	0.0486	U
84	28.40	360.9				0.00329	0.00503	U
85	28.75	395.3				0.0721	0.214	U
87	29.06	395.3				0.0166	0.0778	U
88	29.21	395.3				0.108	0.700	U
89	29.34	360.9				0.0212	0.0389	U
90	29.52	395.3				0.0722	0.330	U
91	29.81	360.9				0.0370	0.0370	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.14	394.3				0.0239	0.0913	U
93	30.51	394.3				0.109	0.622	U
94	30.79	394.3				0.0996	0.330	U
95	31.09	382.2				0.0927	0.154	U
96	31.36	429.8				0.0100	0.0129	U
98	31.52	395.3				0.0142	0.0148	U
99	31.90	429.8				0.0918	0.0918	U
100	32.16	395.3				0.135	0.135	U
101	32.46	429.8				0.231	0.231	U
102	32.65	395.3				0.160	1.19	U
103	32.90	395.3				0.0680	0.0816	U
104	33.20	395.3				0.0398	0.0466	U
105	33.56	429.8				0.0490	0.0836	U
106	34.74	395.3				0.0573	0.249	U
107	35.02	395.3				0.0226	0.0816	U
108	35.90	429.8				0.0344	0.0466	U
109	36.14	429.8				0.123	0.816	U
110	36.69	429.8				0.196	0.836	U
111	37.86	395.3				0.0245	0.0245	U
112	39.45	429.8				0.0391	0.107	U
113	39.97	464.2				0.0466	0.0961	U
114	40.93	464.2				0.0164	0.0362	U
115	42.37	429.8				0.103	0.350	U
116	43.27	429.8				0.0892	0.0892	U
117	48.49	464.2				0.0408	0.132	U
118	54.65	498.6				0.0134	0.0134	U

Total Concentration = 48.7 ng/L

9.69 34.2

Total Nanomoles = 0.211

Average Molecular Weight = 230.5

Number of Calibrated Peaks Found = 56

Internal Standard Retention Time = 46.95 minutes

Internal Standard Peak Area = 128223.4

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090624-AT001  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 11:02:06  
 Lab Sample ID: AM08573  
 LRF ID: 09060293-06  
 Lab File ID: GC16-713-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	0.2509	2	23.464	28.658
3	12.82	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.55	2:2	004 010	0.2886	2-2; 26	36.377	37.579
6	14.40	2:1	007 009	0.3067	24; 25	0.197	0.203
7	14.71	2:1	006	0.3133	2-3	0.364	0.376
8	14.90	2:1	005 008		23; 2-4	-	-
9	15.46	2:0	014		35	-	-
10	15.54	3:3	019	0.3310	26-2	5.585	4.998
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.28	2:0	012 013		34; 3-4	-	-
14	16.40	2:0 3:2	015 018	0.3493	4-4; 25-2	1.829	1.693
15	16.49	3:2	017	0.3512	24-2	2.708	2.423
16	16.79	3:2	024 027	0.3576	236; 26-3	2.116	1.894
17	17.08	3:2	016 032	0.3638	23-2; 26-4	2.545	2.278
19	17.51	3:1 4:4	023 034 054	0.3729	235; 35-2; 26-26	0.431	0.371
20	17.68	3:1	029	0.3766	245	0.042	0.038
21	17.81	3:1	026	0.3793	25-3	1.205	1.078
22	17.89	3:1	025	0.3810	24-3	0.447	0.401
23	18.10	3:1	031	0.3855	25-4	1.802	1.613
24	18.15	3:1 4:3	028 050	0.3866	24-4; 246-2	1.211	1.084
25	18.53	3:1 4:3	020 021 033 053	0.3947	23-3; 234; 34-2; 25-26	1.477	1.312
26	18.73	3:1 4:3	022 051	0.3989	23-4; 24-26	0.980	0.873
27	18.95	4:3	045	0.4036	236-2	0.687	0.542
28	19.10	3:0	036		35-3	-	-
29	19.23	4:3	046	0.4096	23-26	0.287	0.227
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.011	2.377
32	19.70	4:2	043 049	0.4196	235-2; 24-25	1.285	1.014
33	19.82	4:2	038 047	0.4222	345; 24-24	0.978	0.772
34	19.87	4:2	048 075	0.4232	245-2; 246-4	0.201	0.158
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.10	3:0	035		34-3	-	-
37	20.28	5:4 4:2	104 044	0.4319	246-26; 23-25	0.935	0.738
38	20.40	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.010	0.855
39	20.75	4:2	041 064 071 072	0.4420	234-2; 236-4; 26-34; 25-35	1.290	1.019

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
41	20.92	5:4	068 096	0.4456	24-35; 236-26	0.329	0.232
42	21.02	4:2	040	0.4477	23-23	0.408	0.322
43	21.27	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.48	4:1 5:3	058 067 100	0.4575	23-35; 245-3; 246-24	0.086	0.066
45	21.61	4:1	063		235-4	-	-
46	21.77	4:1 5:3	074 094 061	0.4637	245-4; 235-26; 2345	0.364	0.287
47	21.91	4:1	070		25-34	-	-
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088	0.4690	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	1.284	1.008
49	22.33	4:1 5:3	055 091 121	0.4756	234-3; 236-24; 246-35	0.298	0.211
50	22.63	4:1	056 060		23-34; 234-4	-	-
51	22.87	5:3 6:4	084 092 155	0.4871	236-23; 235-25; 246-246	1.087	0.768
52	22.97	5:3	089		234-26	-	-
53	23.14	5:2	090 101	0.4929	235-24; 245-25	0.226	0.160
54	23.32	5:2	079 099 113	0.4967	34-35; 245-24; 236-35	0.269	0.190
55	23.61	5:2 6:4	119 150	0.5029	246-34; 236-246	0.018	0.013
56	23.68	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.91	5:2 6:4	097 152 086	0.5093	245-23; 2356-26; 2345-2	0.394	0.278
58	24.09	5:2	081 087 117 125 115 145	0.5131	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.421	0.297
59	24.24	5:2	116 085 111	0.5163	23456; 234-24; 235-35	0.127	0.090
60	24.40	6:4	120 136	0.5197	245-35; 236-236	0.251	0.160
61	24.49	5:2	077 110 148	0.5216	34-34; 236-34; 235-246	0.714	0.504
62	24.77	6:3	154		245-246	-	-
63	24.85	5:2	082	0.5293	234-23	0.136	0.096
64	25.15	6:3	151		2356-25	-	-
65	25.31	5:1 6:3	124 135	0.5391	345-25; 235-236	0.041	0.027
66	25.37	6:3	144	0.5404	2346-25	0.165	0.106
67	25.40	5:1 6:3	107 109 147	0.5410	234-35; 235-34; 2356-24	0.134	0.092
68	25.50	5:1	123		345-24	-	-
69	25.62	5:1 6:3	106 118 139 149	0.5457	2345-3; 245-34; 2346-24; 236-245	0.336	0.230
70	25.73	6:3	140		234-246	-	-
71	26.02	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.22	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.64	5:1 6:3	105 132 161	0.5674	234-34; 234-236; 2346-35	0.161	0.107
75	26.81	6:2	153		245-245	-	-
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.34	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.63	6:2	137		2345-24	-	-
80	27.78	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.01	6:2	138 163 164	0.5966	234-245; 2356-34; 236-345	0.288	0.184
83	28.19	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.40	6:2	126 129		345-34; 2345-23	-	-
85	28.75	7:3	166 178		23456-4; 2356-235	-	-
87	29.06	7:3	175 159		2346-235; 2345-35	-	-
88	29.21	7:3	182 187		2345-246; 2356-245	-	-
89	29.34	6:2	128 162		234-234; 235-345	-	-
90	29.52	7:3	183		2346-245	-	-
91	29.81	6:1	167		245-345	-	-
92	30.14	7:3	185		23456-25	-	-
93	30.51	7:3	174 181		2345-236; 23456-24	-	-
94	30.79	7:3	177		2356-234	-	-
95	31.09	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.36	8:4	157 202		234-345; 2356-2356	-	-
98	31.52	7:3	173		23456-23	-	-
99	31.90	8:4	201		2346-2356	-	-
100	32.16	7:2	172 204		2345-235; 23456-246	-	-
101	32.46	8:4	192 197		23456-35; 2346-2346	-	-
102	32.65	7:2	180		2345-245	-	-
103	32.90	7:2	193		2356-345	-	-
104	33.20	7:2	191		2346-345	-	-
105	33.56	8:4	200 169		23456-236; 345-345	-	-
106	34.74	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.02	7:2	<b>190</b>		23456-34	-	-
108	35.90	8:3	<b>198</b>		23456-235	-	-
109	36.14	8:3	<b>199</b>		2345-2356	-	-
110	36.69	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.86	7:1	<b>189</b>		2345-345	-	-
112	39.45	8:3	<b>195</b>		23456-234	-	-
113	39.97	9:4	<b>208</b>		23456-2356	-	-
114	40.93	9:4	<b>207</b>		23456-2346	-	-
115	42.37	8:2	<b>194</b>		2345-2345	-	-
116	43.27	8:2	<b>205</b>		23456-345	-	-
117	48.49	9:3	<b>206</b>		23456-2345	-	-
118	54.65	10:4	<b>209</b>		23456-23456	-	-

Concentration = 48.7 ng/L

Total Nanomoles = 0.211

Average Molecular Weight = 230.5

Number of Calibrated Peaks Found = 56

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

# Sample GC Injection Log



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
Phone: (518) 346-4592 Fax: (518) 381-6055  
www.nealab.com

Sample Set Name: GC16\_CC\_062209  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 06/22/2009 14:29:34 EDT  
Current Date: 06/24/2009  
Report Name: CSGB\_SSReport

### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090622B03	1.000	1.00	1	06/22/2009 14:36:30 EDT
2	HEXANE BLANK	Unknown	090622B04	1.000	1.00	1	06/22/2009 15:44:04 EDT
3	ICAL 6.25 ng/mL	Standard	ICAL0622A	1.000	1.00	1	06/22/2009 16:51:40 EDT
4	ICAL 12.5 ng/mL	Standard	ICAL0622B	1.000	1.00	1	06/22/2009 17:59:10 EDT
5	ICAL 125 ng/mL	Standard	ICAL0622C	1.000	1.00	1	06/22/2009 19:06:43 EDT
6	ICAL 314 ng/mL	Standard	ICAL0622D	1.000	1.00	1	06/22/2009 20:14:11 EDT
7	ICAL 627 ng/mL	Standard	ICAL0622E	1.000	1.00	1	06/22/2009 21:21:42 EDT
8	HEXANE BLANK	Unknown	090622B05	1.000	1.00	1	06/22/2009 22:29:06 EDT
9	SUP CONG STD 200/5 ng/mL	Standard	SC0622A	1.000	1.00	1	06/22/2009 23:36:28 EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0622A	1.000	1.00	1	06/23/2009 00:43:46 EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0622B	1.000	1.00	1	06/23/2009 01:51:08 EDT
12	HEXANE BLANK	Unknown	090622B06	1.000	1.00	1	06/23/2009 02:58:32 EDT
13	CCC Std 122 ng/mL	Unknown	CCCS0622B	1.000	1.00	1	06/23/2009 04:05:51 EDT



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Sample Set Name: GC16\_062409d  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 06/24/2009 09:03:13  
Date Printed: 06/25/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090624B03	1.000	1.00	1	06/24/2009 09:03:13
2	CCC Std 122 ng/mL	Unknown	CCCS0624A	1.000	1.00	1	06/24/2009 10:10:44
3	METHOD BLANK	Unknown	AM08526B	1.000	5.00	5	06/24/2009 11:18:11
4	LAB CONTROL SPIKE	Unknown	AM08526L	1.000	5.00	5	06/24/2009 12:25:50
5	ZZZZZ	Unknown	ZZZZZ	0.970	5.00	5	06/24/2009 13:33:29
6	ZZZZZ	Unknown	ZZZZZ	0.970	50.00	5	06/24/2009 14:40:56
7	CCC Std 122 ng/mL	Unknown	CCCS0624B	1.000	1.00	1	06/24/2009 15:48:25
8	HEXANE BLANK	Unknown	090624B04	1.000	1.00	1	06/24/2009 17:34:48
9	Surr TCMX/DCBP 5/50 ppb	Unknown	TD0624A	1.000	1.00	1	06/24/2009 18:42:13
10	CCC Std 122 ng/mL	Unknown	CCCS0624C	1.000	1.00	1	06/24/2009 19:49:38
11	ZZZZZ	Unknown	ZZZZZ	1.000	5.00	5	06/24/2009 20:56:59
12	CCC Std 122 ng/mL	Unknown	CCCS0624D	1.000	1.00	1	06/24/2009 23:11:55



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Sample Set Name: GC16\_QEA\_062509  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 06/25/2009 03:10:36  
Date Printed: 06/25/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	WFF-LOC5-090624-AT001	Unknown	AM08568	1.040	5.00	5	06/25/2009 03:10:36
2	WFF-LOC5-090624-AT001	Unknown	AM08568DL1	1.040	50.00	5	06/25/2009 04:18:02
3	WFF-SCHU-090624-AT001	Unknown	AM08569	0.960	5.00	5	06/25/2009 05:25:28
4	WFF-SCHU-090624-AT001	Unknown	AM08569DL1	0.960	50.00	5	06/25/2009 06:32:55
5	CCC Std 122 ng/mL	Unknown	CCCS0625A	1.000	1.00	1	06/25/2009 07:40:14
6	WFF-WAFA-090624-AT001	Unknown	AM08572	1.030	5.00	5	06/25/2009 08:47:28
7	WFF-WAFO-090624-AT001	Unknown	AM08573	0.940	5.00	5	06/25/2009 11:02:06
8	CCC Std 122 ng/mL	Unknown	CCCS0625B	1.000	1.00	1	06/25/2009 13:16:58



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Project Name: GC16\_May\_2009  
Sample Set Name: GC16\_QEA\_062509  
Date Printed: 06/25/2009

**Operating Conditions Gas Chromatography**

User Name: Keith Friedman Injection Method: Splitless  
Sample Size: 0.5 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: Agilent DB-1; 30 meter; 0.25 micron phase thickness  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 28.8 psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector 1 GC16 Detector Type: ECD Detector Range: 3

# Standards Summary Tables



**Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308**  
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Sample Set Name: GC16\_CC\_062209  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 06/22/2009 14:29:34 EDT  
Current Date: 06/24/2009  
Report Name: CSGB\_SumRpt\_OCNArea

**ICAL OCN Area Summary Report**

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0622A	ICAL 6.25 ng/mL	06/22/2009 16:51:40 EDT	94431
2	ICAL0622B	ICAL 12.5 ng/mL	06/22/2009 17:59:10 EDT	94577
3	ICAL0622C	ICAL 125 ng/mL	06/22/2009 19:06:43 EDT	98369
4	ICAL0622D	ICAL 314 ng/mL	06/22/2009 20:14:11 EDT	96408
5	ICAL0622E	ICAL 627 ng/mL	06/22/2009 21:21:42 EDT	91950
Mean				95147



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
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System Name: Instrument\_16 Date Calibrated: 06/24/2009 00:58:58 EDT  
 Sample Set Name: GC16\_CC\_062209 Method Report: CSGB CCSum by RF  
 Sample Set Date: 06/22/2009 14:29:34 EDT User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062209

**Calibration Component Summary Table  
 Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)
1	ICAL0622A	0.043671		0.021062	0.110309	0.653942	0.388473	0.214161			
2	ICAL0622B	0.037835		0.020410	0.097878	0.760309	0.385429	0.200498		0.615271	
3	ICAL0622C	0.044857		0.019749	0.108327	0.696950	0.345490	0.190219		0.608385	
4	ICAL0622D	0.043457		0.020129	0.105134	0.691910	0.332768	0.178873		0.549331	
5	ICAL0622E				0.102997					0.563531	
6	SC0622A		0.004591						0.276372		0.952986
Mean		0.042	0.005	0.020	0.105	0.701	0.363	0.196	0.276	0.584	0.953
Std. Dev.		0.003		0.001	0.005	0.044	0.028	0.015		0.033	
% RSD		7.40		2.72	4.62	6.29	7.75	7.67		5.59	

**Calibration Component Summary Table  
 Component Summary For RF**

	12 (11)	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)
1			0.578431	0.324267	1.054121	0.521547			0.638562	0.765199	0.757847
2		0.420193	0.628480	0.296533	0.938748	0.492969		0.873393	0.542095	0.854755	0.859176
3		0.446082	0.575438	0.318929	0.837022	0.505893		0.763274	0.592435	0.811600	0.743307
4		0.460869	0.540267	0.292380	0.912366	0.470872		0.824690	0.581280	0.829566	0.690201
5					0.848641						
6	0.110605						0.586656				
Mean	0.111	0.442	0.581	0.308	0.918	0.498	0.587	0.820	0.589	0.815	0.763
Std. Dev.		0.021	0.036	0.016	0.087	0.021		0.055	0.040	0.038	0.071
% RSD		4.65	6.25	5.17	9.49	4.31		6.73	6.74	4.64	9.26

**Calibration Component Summary Table  
 Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
1	0.989734	0.699186	0.585766	0.798885		0.579596		0.569765	1.258255	1.698796
2	0.963027	0.695485	0.660629	0.744266		0.605883		0.573977	1.159483	1.562727
3	0.911549	0.665626	0.622538	0.691375		0.607433		0.542380	1.058365	1.406650
4	0.869708	0.637237	0.605674	0.694752		0.621966		0.501034	0.980660	1.339268
5										
6					0.451933		0.443238			
Mean	0.934	0.674	0.619	0.732	0.452	0.604	0.443	0.547	1.114	1.502

**Calibration Component Summary Table  
Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
Std. Dev.	0.053	0.029	0.032	0.051		0.018		0.034	0.121	0.161
% RSD	5.73	4.30	5.13	6.90		2.92		6.14	10.84	10.74

**Calibration Component Summary Table  
Component Summary For RF**

	34 (48,75)	35 (62,65)	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)
1	1.289766			0.912198	0.750349	1.053375		0.756629		
2	1.259352			0.826397	0.694236	1.124865		0.781937		1.027112
3	1.083584			0.799907	0.633765	1.025781		0.803861		1.130457
4	1.032330			0.753140	0.623524	0.975038		0.818242		1.106202
5										
6		1.095427	0.445428				0.641545		0.846983	
Mean	1.166	1.095	0.445	0.823	0.675	1.045	0.642	0.790	0.847	1.088
Std. Dev.	0.127			0.067	0.059	0.062		0.027		0.054
% RSD	10.92			8.12	8.72	5.98		3.40		4.97

**Calibration Component Summary Table  
Component Summary For RF**

	45 (63)	46 (74,94,61)	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)
1	1.084955	1.404105	1.285883		0.878238	0.818506	1.237067	0.413368
2	1.096977	1.498788	1.335260		0.881876	0.850751	1.199732	0.490397
3	1.065114	1.447388	1.192906		0.814226	0.891333	1.171222	0.454881
4	1.070430	1.354097	1.114891		0.762366	0.952129	1.114013	0.442690
5								
6								
Mean	1.079	1.426	1.232		0.834	0.878	1.181	0.450
Std. Dev.	0.014	0.062	0.098		0.057	0.058	0.052	0.032
% RSD	1.34	4.32	7.95		6.84	6.56	4.40	7.08

**Calibration Component Summary Table  
Component Summary For RF**

	53 (90,101)	54 (79,99,113)	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)
1	1.079248	1.568282			1.224201		1.016283
2	1.127841	1.501569	2.013049	0.822623	1.376927		1.141953
3	0.993640	1.481599	1.945040	0.837952	1.207250		0.979407
4	0.935028	1.436982	1.975419	0.838692	1.190379		1.008282
5							
6							
Mean	1.034	1.497	1.978	0.833	1.250		1.036
Std. Dev.	0.086	0.055	0.034	0.009	0.086		0.072
% RSD	8.33	3.65	1.72	1.09	6.88		6.95

**Calibration Component Summary Table  
Component Summary For RF**

	60 (120,136)	61 (77,110,148)	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)
1	1.022952	1.117457		1.345419	1.151477	1.798124	0.586940		
2	0.774984	1.012819		1.272266	1.079986	1.737324	0.615717	0.789647	
3	0.865093	1.015216		1.124060	1.028527	1.592514	0.650866	0.751877	
4	0.953512	0.935913		1.137320	0.982764	1.623432	0.618249	0.879752	
5									
6			0.940736						1.018719
Mean	0.904	1.020	0.941	1.220	1.061	1.688	0.618	0.807	1.019
Std. Dev.	0.108	0.074		0.107	0.072	0.096	0.026	0.066	
% RSD	11.91	7.30		8.79	6.82	5.71	4.23	8.14	

**Calibration Component Summary Table  
Component Summary For RF**

	69 (106,118,139,149)	70 (140)	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)
1	1.302051		0.997188		1.267622	1.431273	1.585367
2	1.304869		0.901269	1.345170	1.196938	1.462983	1.553025
3	1.185000		0.957886	1.374036	1.125469	1.468918	1.426663
4	1.115690		1.078946	1.436971	1.052745	1.391796	1.338582
5							
6		1.107774					
Mean	1.227	1.108	0.984	1.385	1.161	1.439	1.476
Std. Dev.	0.093		0.075	0.047	0.092	0.035	0.114
% RSD	7.57		7.59	3.39	7.97	2.46	7.75

**Calibration Component Summary Table  
Component Summary For RF**

	76 (127,168,184)	77 (141)	78 (179)	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)
1		0.815890	1.141121		2.199762	1.310912	1.209759		0.585914
2		0.818422	0.981780	0.646277	2.005272	1.306393	1.230922	4.888299	0.669581
3		0.771766	1.165678	0.663318	1.990023	1.252045	1.204927	4.932500	0.618085
4		0.737086	1.091929	0.626724	2.105974	1.184809	1.370083	4.997108	0.644891
5									
6	0.871349								
Mean	0.871	0.786	1.095	0.645	2.075	1.264	1.254	4.939	0.630
Std. Dev.		0.039	0.082	0.018	0.098	0.059	0.078	0.055	0.036
% RSD		4.95	7.45	2.84	4.71	4.66	6.24	1.11	5.71

**Calibration Component Summary Table  
Component Summary For RF**

	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
1		1.319607		1.079100		1.467732	1.196084	0.877787	0.997912	7.516879
2	0.722852	1.349946	1.891891	1.272436	1.028371	1.409244	1.223513	1.121034	0.999506	7.389332
3	0.647810	1.236392	2.053575	1.156560	0.977205	1.561975	1.189738	1.037961	1.037282	7.795494
4	0.680716	1.167227	2.087645	1.128702	1.127558	1.545978	1.128890	1.014042	1.046137	7.614182

**Calibration Component Summary Table  
Component Summary For RF**

	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
5										
6										
Mean	0.684	1.268	2.011	1.159	1.044	1.496	1.185	1.013	1.020	7.579
Std. Dev.	0.038	0.083	0.105	0.082	0.076	0.071	0.040	0.101	0.025	0.171
% RSD	5.50	6.52	5.20	7.07	7.32	4.75	3.37	9.97	2.46	2.26

**Calibration Component Summary Table  
Component Summary For RF**

	98 (173)	99 (201)	100 (172,204)	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)
1		0.962338	0.870640		1.407697	1.141518		1.023146	1.726560	1.520004
2	1.583496	1.060629	0.911982	0.856408	1.463151	0.945999	0.873064	1.053399	1.854069	1.315800
3	1.543075	1.078339	0.949723	0.850107	1.339430	1.097044	0.814432	1.109606	1.962040	1.457521
4	1.550084	0.966019	0.876758	0.846390	1.271005	1.130234	0.950543	1.125586	1.899163	1.573119
5										
6										
Mean	1.559	1.017	0.902	0.851	1.370	1.079	0.879	1.078	1.860	1.467
Std. Dev.	0.022	0.061	0.037	0.005	0.083	0.090	0.068	0.048	0.100	0.111
% RSD	1.39	6.02	4.05	0.60	6.08	8.39	7.76	4.44	5.36	7.57

**Calibration Component Summary Table  
Component Summary For RF**

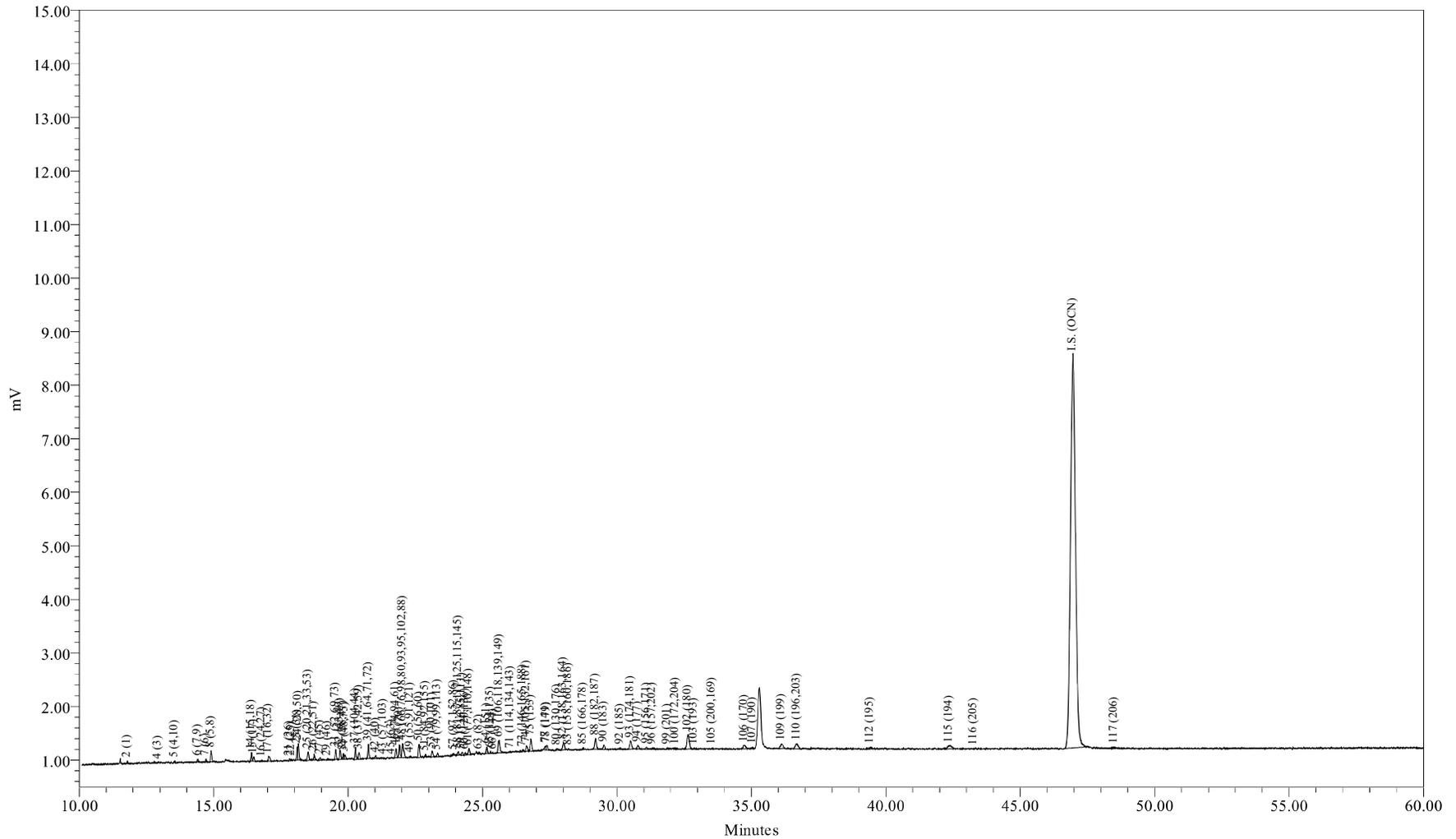
	108 (198)	109 (199)	110 (196,203)	111 (189)	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1		0.733748	0.848828		1.807381			1.731131	1.067382	1.410820	
2	1.515491	0.771738	0.902212	1.409258	1.927662	0.696854	1.569386	1.768242	1.077856	1.483996	1.007843
3	1.509841	0.767643	0.827749	1.362922	2.173343	0.704267	1.382280	1.755926	1.066322	1.537570	0.992034
4	1.347971	0.740573	0.805216	1.421028	2.106667	0.763982	1.491399	1.693212	1.075628	1.569378	1.107003
5											
6											
Mean	1.458	0.753	0.846	1.398	2.004	0.722	1.481	1.737	1.072	1.500	1.036
Std. Dev.	0.095	0.019	0.041	0.031	0.167	0.037	0.094	0.033	0.006	0.069	0.062
% RSD	6.53	2.53	4.90	2.20	8.34	5.10	6.35	1.91	0.54	4.62	6.02



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Sample Name: ICAL0622A  
Sample ID: ICAL 6.25 ng/mL  
Date Acquired: 06/22/2009 16:51:40 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSG\_B\_LL1X\_062209  
LIMS File ID: GC16-711-6

Sample Name: ICAL0622A

1 of 1



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0622A Sample Amount: 1  
 Sample ID: ICAL 6.25 ng/mL Dilution: 1  
 Date Acquired: 06/22/2009 16:51:40 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 06/24/2009 00:58:20 EDT  
 Sample Set Name: GC16\_CC\_062209 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062209 Current Date: 06/24/2009  
 Run Time: 60.0 Minutes Current Time: 17:15:02 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-711-6

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.788	99	0.439	0.439	0.043671
2	3 (2)	12.819				
3	4 (3)	12.930	28	0.256	0.256	0.021062
4	5 (4,10)	13.548	71	0.124	0.124	0.110309
5	6 (7,9)	14.412	149	0.044	0.044	0.653942
6	7 (6)	14.710	140	0.069	0.069	0.388473
7	8 (5,8)	14.904	569	0.512	0.512	0.214161
8	9 (14)	15.464				
9	10 (19)	15.541				
10	11 (30)	16.011				
11	12 (11)	16.075				
12	13 (12,13)	16.278				
13	14 (15,18)	16.408	406	0.135	0.135	0.578431
14	15 (17)	16.489	228	0.135	0.135	0.324267
15	16 (24,27)	16.791	52	0.009	0.009	1.054121
16	17 (16,32)	17.043	386	0.143	0.143	0.521547
17	19 (23,34,54)	17.512				
18	20 (29)	17.694				
19	21 (26)	17.815	87	0.026	0.026	0.638562
20	22 (25)	17.899	46	0.012	0.012	0.765199
21	23 (31)	18.101	593	0.151	0.151	0.757847
22	24 (28,50)	18.152	991	0.193	0.193	0.989734
23	25 (20,21,33,53)	18.514	527	0.145	0.145	0.699186
24	26 (22,51)	18.732	322	0.106	0.106	0.585766
25	27 (45)	18.952	135	0.033	0.033	0.798885
26	28 (36)	19.098				
27	29 (46)	19.232	44	0.015	0.015	0.579596
28	30 (39)	19.364				

**Peak Results**

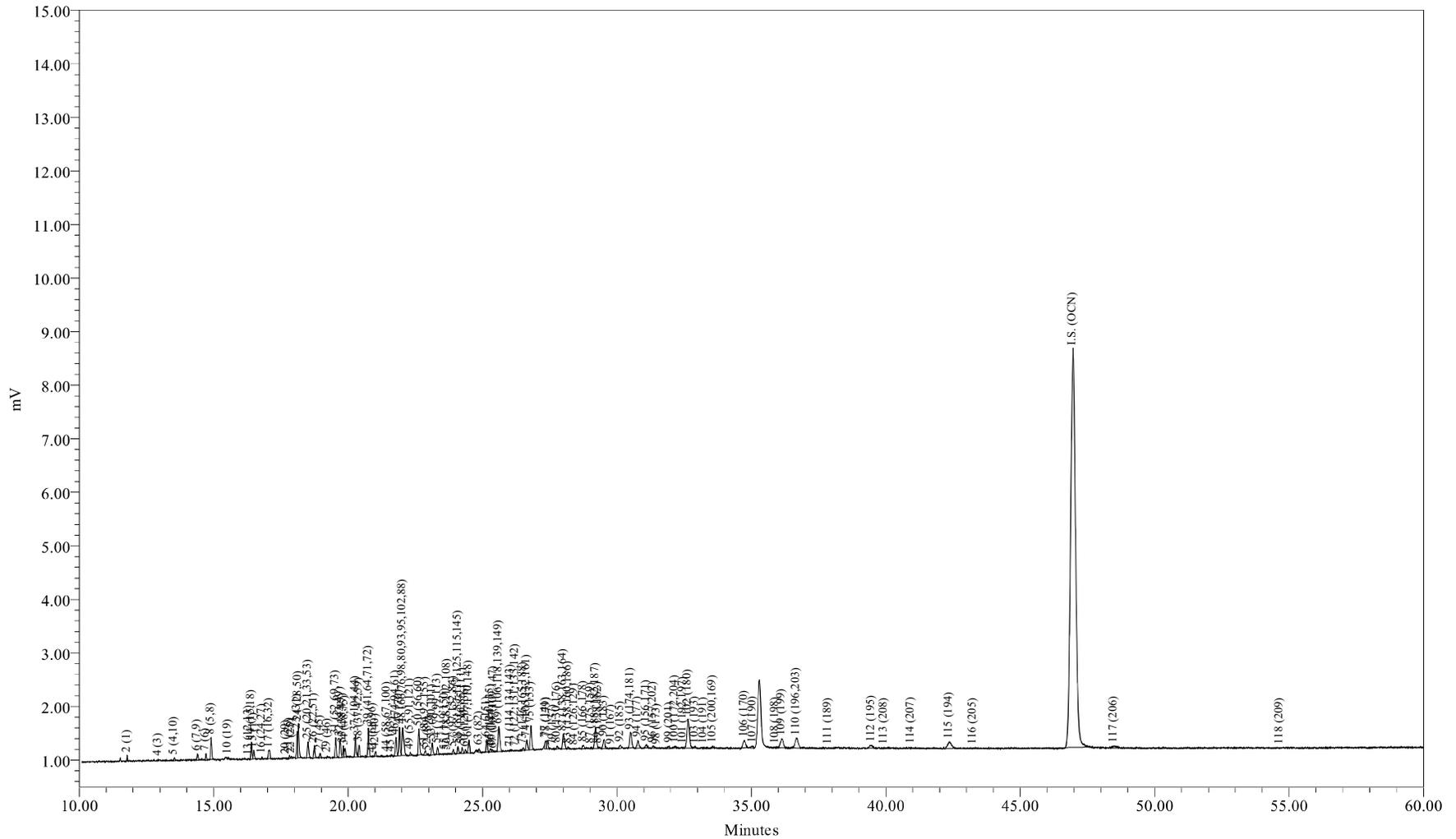
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.536	516	0.174	0.174	0.569765
30	32 (43,49)	19.702	549	0.084	0.084	1.258255
31	33 (38,47)	19.829	323	0.037	0.037	1.698796
32	34 (48,75)	19.882	245	0.037	0.037	1.289766
33	35 (62,65)	20.019				
34	36 (35)	20.102				
35	37 (104,44)	20.275	745	0.157	0.157	0.912198
36	38 (37,42,59)	20.403	370	0.095	0.095	0.750349
37	39 (41,64,71,72)	20.760	820	0.150	0.150	1.053375
38	41 (68,96)	20.919				
39	42 (40)	21.026	135	0.034	0.034	0.756629
40	43 (57,103)	21.310	57			
41	44 (58,67,100)	21.444				
42	45 (63)	21.622	43	0.008	0.008	1.084955
43	46 (74,94,61)	21.778	506	0.069	0.069	1.404105
44	47 (70)	21.905	830	0.124	0.124	1.285883
45	48 (66,76,98,80,93,95,102,88)	22.027	1200	0.263	0.263	0.878238
46	49 (55,91,121)	22.315	79	0.019	0.019	0.818506
47	50 (56,60)	22.641	822	0.128	0.128	1.237067
48	51 (84,92,155)	22.874	141	0.066	0.066	0.413368
49	52 (89)	22.971				
50	53 (90,101)	23.122	369	0.066	0.066	1.079248
51	54 (79,99,113)	23.326	220	0.027	0.027	1.568282
52	55 (119,150)	23.602				
53	56 (78,83,112,108)	23.694				
54	57 (97,152,86)	23.922	130	0.020	0.020	1.224201
55	58 (81,87,117,125,115,145)	24.098	224	0.042	0.042	1.016283
56	59 (116,85,111)	24.234	177	0.026	0.026	1.332629
57	60 (120,136)	24.357	146	0.027	0.027	1.022952
58	61 (77,110,148)	24.496	452	0.078	0.078	1.117457
59	62 (154)	24.772				
60	63 (82)	24.863	112	0.016	0.016	1.345419
61	64 (151)	25.158	372	0.062	0.062	1.151477
62	65 (124,135)	25.294	99	0.011	0.011	1.798124
63	66 (144)	25.396	67	0.022	0.022	0.586940
64	67 (107,109,147)	25.424				
65	68 (123)	25.518				
66	69 (106,118,139,149)	25.615	989	0.146	0.146	1.302051
67	70 (140)	25.727				
68	71 (114,134,143)	26.044	38	0.007	0.007	0.997188

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.224				
70	73 (146,165,188)	26.498	94	0.014	0.014	1.267622
71	74 (105,132,161)	26.639	368	0.050	0.050	1.431273
72	75 (153)	26.798	886	0.108	0.108	1.585367
73	76 (127,168,184)	26.921				
74	77 (141)	27.353	263	0.062	0.062	0.815890
75	78 (179)	27.392	316	0.053	0.053	1.141121
76	79 (137)	27.627				
77	80 (130,176)	27.769	109	0.009	0.009	2.199762
78	82 (138,163,164)	28.005	672	0.099	0.099	1.310912
79	83 (158,160,186)	28.199	57	0.009	0.009	1.209759
80	84 (126,129)	28.404				
81	85 (166,178)	28.739	122	0.040	0.040	0.585914
82	87 (175,159)	29.062				
83	88 (182,187)	29.197	902	0.132	0.132	1.319607
84	89 (128,162)	29.342				
85	90 (183)	29.506	348	0.062	0.062	1.079100
86	91 (167)	29.805				
87	92 (185)	30.118	131	0.017	0.017	1.467732
88	93 (174,181)	30.506	727	0.117	0.117	1.196084
89	94 (177)	30.777	283	0.062	0.062	0.877787
90	95 (156,171)	31.102	150	0.029	0.029	0.997912
91	96 (157,202)	31.324	94	0.002	0.002	7.516879
92	98 (173)	31.524				
93	99 (201)	31.878	71	0.014	0.014	0.962338
94	100 (172,204)	32.180	93	0.020	0.020	0.870640
95	101 (192,197)	32.458				
96	102 (180)	32.644	1630	0.223	0.223	1.407697
97	103 (193)	32.864	91	0.015	0.015	1.141518
98	104 (191)	33.204				
99	105 (200,169)	33.541	84	0.016	0.016	1.023146
100	106 (170)	34.731	420	0.047	0.047	1.726560
101	107 (190)	35.036	121	0.015	0.015	1.520004
102	108 (198)	35.895				
103	109 (199)	36.123	585	0.154	0.154	0.733748
104	110 (196,203)	36.700	693	0.157	0.157	0.848828
105	111 (189)	37.861				
106	112 (195)	39.421	190	0.020	0.020	1.807381
107	113 (208)	39.966				
108	114 (207)	40.926				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.361	592	0.066	0.066	1.731131
110	116 (205)	43.267	22	0.004	0.004	1.067382
111	I.S. (OCN)	46.955	94431	18.180	18.180	5194.248365
112	117 (206)	48.488	182	0.025	0.025	1.410820
113	118 (209)	54.650				



Sample Name: ICAL0622B  
Sample ID: ICAL 12.5 ng/mL  
Date Acquired: 06/22/2009 17:59:10 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-711-7

Sample Name: ICAL0622B

1 of 1



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0622B Sample Amount: 1  
 Sample ID: ICAL 12.5 ng/mL Dilution: 1  
 Date Acquired: 06/22/2009 17:59:10 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 06/24/2009 00:58:32 EDT  
 Sample Set Name: GC16\_CC\_062209 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062209 Current Date: 06/24/2009  
 Run Time: 60.0 Minutes Current Time: 17:15:14 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-711-7

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.782	173	0.877	0.877	0.037835
2	3 (2)	12.819				
3	4 (3)	12.937	54	0.512	0.512	0.020410
4	5 (4,10)	13.538	127	0.249	0.249	0.097878
5	6 (7,9)	14.393	347	0.088	0.088	0.760309
6	7 (6)	14.711	278	0.139	0.139	0.385429
7	8 (5,8)	14.904	1067	1.023	1.023	0.200498
8	9 (14)	15.464				
9	10 (19)	15.543	66	0.020	0.020	0.615271
10	11 (30)	16.011				
11	12 (11)	16.075				
12	13 (12,13)	16.312	43	0.020	0.020	0.420193
13	14 (15,18)	16.404	884	0.270	0.270	0.628480
14	15 (17)	16.490	417	0.270	0.270	0.296533
15	16 (24,27)	16.797	93	0.019	0.019	0.938748
16	17 (16,32)	17.068	731	0.285	0.285	0.492969
17	19 (23,34,54)	17.512				
18	20 (29)	17.700	18	0.004	0.004	0.873393
19	21 (26)	17.815	148	0.053	0.053	0.542095
20	22 (25)	17.900	104	0.023	0.023	0.854755
21	23 (31)	18.103	1347	0.301	0.301	0.859176
22	24 (28,50)	18.153	1932	0.386	0.386	0.963027
23	25 (20,21,33,53)	18.504	1050	0.290	0.290	0.695485
24	26 (22,51)	18.743	729	0.212	0.212	0.660629
25	27 (45)	18.958	252	0.065	0.065	0.744266
26	28 (36)	19.098				
27	29 (46)	19.232	92	0.029	0.029	0.605883
28	30 (39)	19.364				

**Peak Results**

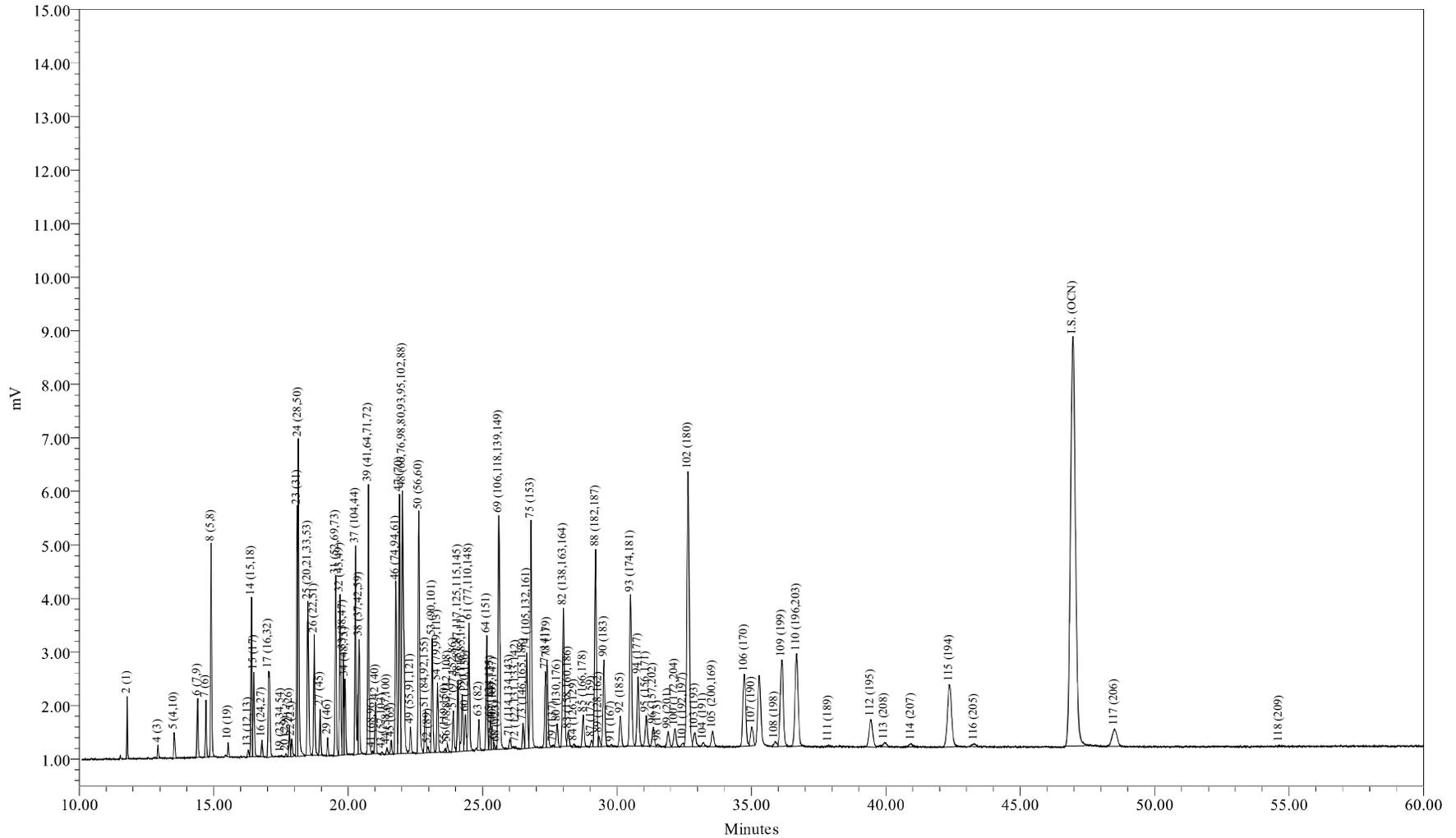
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.535	1041	0.349	0.349	0.573977
30	32 (43,49)	19.706	1014	0.168	0.168	1.159483
31	33 (38,47)	19.821	594	0.073	0.073	1.562727
32	34 (48,75)	19.882	479	0.073	0.073	1.259352
33	35 (62,65)	20.019				
34	36 (35)	20.102				
35	37 (104,44)	20.275	1351	0.314	0.314	0.826397
36	38 (37,42,59)	20.407	686	0.190	0.190	0.694236
37	39 (41,64,71,72)	20.756	1754	0.300	0.300	1.124865
38	41 (68,96)	20.923	18			
39	42 (40)	21.016	280	0.069	0.069	0.781937
40	43 (57,103)	21.270				
41	44 (58,67,100)	21.445	43	0.008	0.008	1.027112
42	45 (63)	21.610	88	0.015	0.015	1.096977
43	46 (74,94,61)	21.779	1083	0.139	0.139	1.498788
44	47 (70)	21.908	1726	0.249	0.249	1.335260
45	48 (66,76,98,80,93,95,102,88)	22.030	2414	0.526	0.526	0.881876
46	49 (55,91,121)	22.315	165	0.037	0.037	0.850751
47	50 (56,60)	22.632	1597	0.256	0.256	1.199732
48	51 (84,92,155)	22.872	336	0.132	0.132	0.490397
49	52 (89)	22.980	37	0.007	0.007	0.973254
50	53 (90,101)	23.128	772	0.132	0.132	1.127841
51	54 (79,99,113)	23.320	423	0.054	0.054	1.501569
52	55 (119,150)	23.610	21	0.002	0.002	2.013049
53	56 (78,83,112,108)	23.690	47	0.011	0.011	0.822623
54	57 (97,152,86)	23.911	293	0.041	0.041	1.376927
55	58 (81,87,117,125,115,145)	24.088	504	0.085	0.085	1.141953
56	59 (116,85,111)	24.235	322	0.051	0.051	1.208196
57	60 (120,136)	24.359	221	0.055	0.055	0.774984
58	61 (77,110,148)	24.492	820	0.156	0.156	1.012819
59	62 (154)	24.772				
60	63 (82)	24.868	213	0.032	0.032	1.272266
61	64 (151)	25.158	698	0.124	0.124	1.079986
62	65 (124,135)	25.296	192	0.021	0.021	1.737324
63	66 (144)	25.356	140	0.044	0.044	0.615717
64	67 (107,109,147)	25.418	39	0.009	0.009	0.789647
65	68 (123)	25.518				
66	69 (106,118,139,149)	25.604	1985	0.292	0.292	1.304869
67	70 (140)	25.727				
68	71 (114,134,143)	26.040	69	0.015	0.015	0.901269

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.225	15	0.002	0.002	1.345170
70	73 (146,165,188)	26.519	178	0.029	0.029	1.196938
71	74 (105,132,161)	26.648	754	0.099	0.099	1.462983
72	75 (153)	26.801	1739	0.215	0.215	1.553025
73	76 (127,168,184)	26.921				
74	77 (141)	27.336	529	0.124	0.124	0.818422
75	78 (179)	27.406	545	0.107	0.107	0.981780
76	79 (137)	27.633	18	0.005	0.005	0.646277
77	80 (130,176)	27.778	198	0.019	0.019	2.005272
78	82 (138,163,164)	28.007	1341	0.197	0.197	1.306393
79	83 (158,160,186)	28.185	117	0.018	0.018	1.230922
80	84 (126,129)	28.413	24	0.001	0.001	4.888299
81	85 (166,178)	28.745	280	0.080	0.080	0.669581
82	87 (175,159)	29.026	55	0.015	0.015	0.722852
83	88 (182,187)	29.205	1848	0.263	0.263	1.349946
84	89 (128,162)	29.308	72	0.007	0.007	1.891891
85	90 (183)	29.524	823	0.124	0.124	1.272436
86	91 (167)	29.798	19	0.004	0.004	1.028371
87	92 (185)	30.124	252	0.034	0.034	1.409244
88	93 (174,181)	30.506	1489	0.234	0.234	1.223513
89	94 (177)	30.779	725	0.124	0.124	1.121034
90	95 (156,171)	31.099	300	0.058	0.058	0.999506
91	96 (157,202)	31.351	186	0.005	0.005	7.389332
92	98 (173)	31.495	23	0.003	0.003	1.583496
93	99 (201)	31.944	157	0.029	0.029	1.060629
94	100 (172,204)	32.162	194	0.041	0.041	0.911982
95	101 (192,197)	32.473	36	0.008	0.008	0.856408
96	102 (180)	32.642	3394	0.446	0.446	1.463151
97	103 (193)	32.900	151	0.031	0.031	0.945999
98	104 (191)	33.218	40	0.009	0.009	0.873064
99	105 (200,169)	33.563	172	0.031	0.031	1.053399
100	106 (170)	34.736	902	0.094	0.094	1.854069
101	107 (190)	35.046	210	0.031	0.031	1.315800
102	108 (198)	35.900	69	0.009	0.009	1.515491
103	109 (199)	36.129	1233	0.307	0.307	0.771738
104	110 (196,203)	36.675	1475	0.314	0.314	0.902212
105	111 (189)	37.864	21	0.003	0.003	1.409258
106	112 (195)	39.471	405	0.040	0.040	1.927662
107	113 (208)	39.935	65	0.018	0.018	0.696854
108	114 (207)	40.924	56	0.007	0.007	1.569386

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.360	1210	0.132	0.132	1.768242
110	116 (205)	43.245	45	0.008	0.008	1.077856
111	I.S. (OCN)	46.961	94577	18.180	18.180	5202.281789
112	117 (206)	48.478	384	0.050	0.050	1.483996
113	118 (209)	54.649	5	0.001	0.001	1.007843



Sample Name: ICAL0622C  
Sample ID: ICAL 125 ng/mL  
Date Acquired: 06/22/2009 19:06:43 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-711-8



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0622C Sample Amount: 1  
 Sample ID: ICAL 125 ng/mL Dilution: 1  
 Date Acquired: 06/22/2009 19:06:43 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 06/24/2009 00:58:35 EDT  
 Sample Set Name: GC16\_CC\_062209 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062209 Current Date: 06/24/2009  
 Run Time: 60.0 Minutes Current Time: 17:15:24 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-711-8

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.782	2129	8.771	8.771	0.044857
2	3 (2)	12.819				
3	4 (3)	12.927	547	5.117	5.117	0.019749
4	5 (4,10)	13.531	1457	2.485	2.485	0.108327
5	6 (7,9)	14.402	3307	0.877	0.877	0.696950
6	7 (6)	14.711	2596	1.389	1.389	0.345490
7	8 (5,8)	14.901	10533	10.233	10.233	0.190219
8	9 (14)	15.464				
9	10 (19)	15.541	674	0.205	0.205	0.608385
10	11 (30)	16.011				
11	12 (11)	16.075				
12	13 (12,13)	16.288	471	0.195	0.195	0.446082
13	14 (15,18)	16.404	8421	2.704	2.704	0.575438
14	15 (17)	16.492	4667	2.704	2.704	0.318929
15	16 (24,27)	16.795	860	0.190	0.190	0.837022
16	17 (16,32)	17.046	7803	2.851	2.851	0.505893
17	19 (23,34,54)	17.508	71			
18	20 (29)	17.686	160	0.039	0.039	0.763274
19	21 (26)	17.815	1687	0.526	0.526	0.592435
20	22 (25)	17.903	1027	0.234	0.234	0.811600
21	23 (31)	18.099	12121	3.014	3.014	0.743307
22	24 (28,50)	18.150	19025	3.857	3.857	0.911549
23	25 (20,21,33,53)	18.503	10457	2.903	2.903	0.665626
24	26 (22,51)	18.736	7141	2.120	2.120	0.622538
25	27 (45)	18.960	2433	0.650	0.650	0.691375
26	28 (36)	19.098				
27	29 (46)	19.236	961	0.292	0.292	0.607433
28	30 (39)	19.364				

**Peak Results**

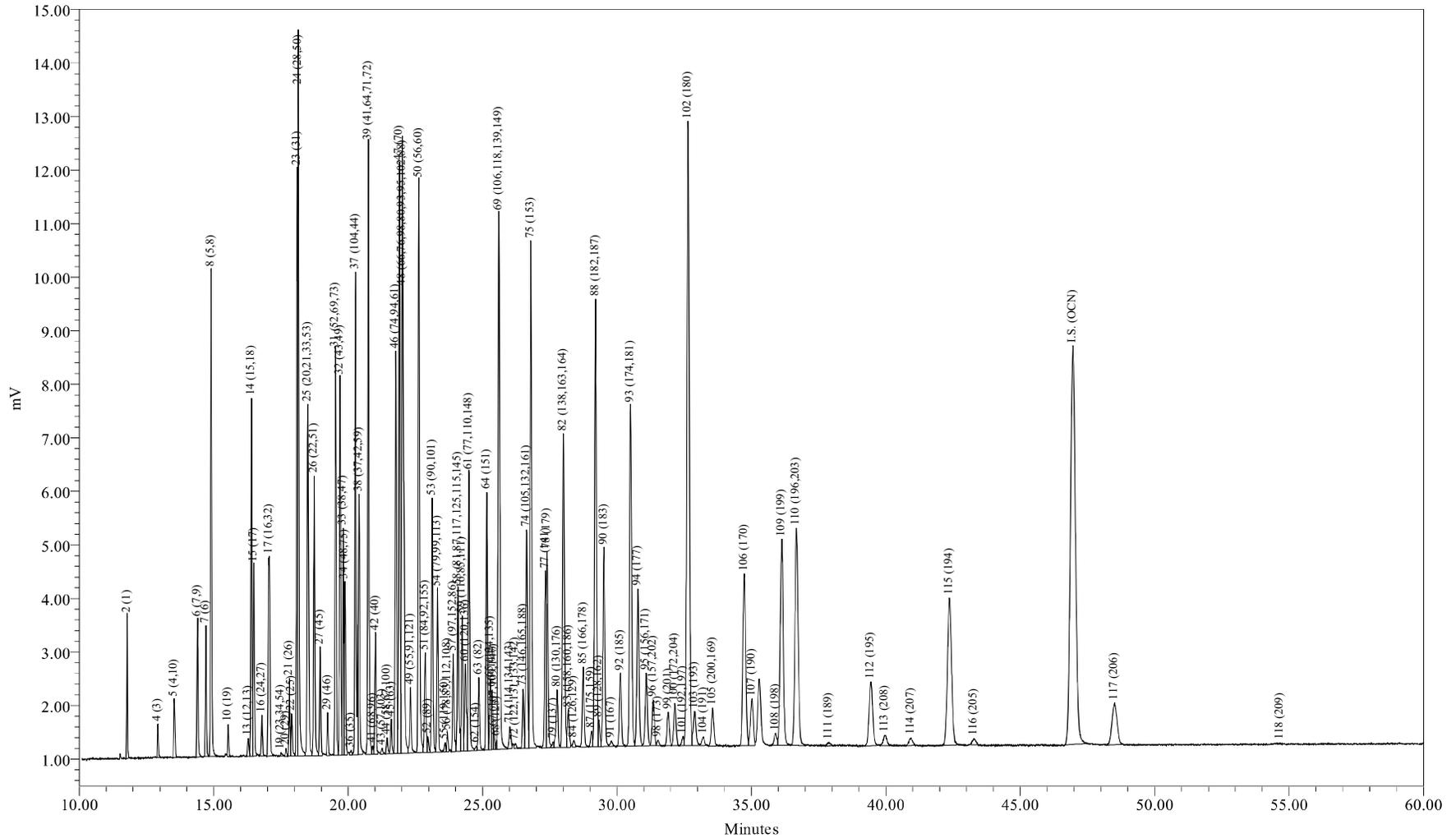
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.535	10232	3.487	3.487	0.542380
30	32 (43,49)	19.703	9628	1.681	1.681	1.058365
31	33 (38,47)	19.819	5564	0.731	0.731	1.406650
32	34 (48,75)	19.881	4286	0.731	0.731	1.083584
33	35 (62,65)	20.019				
34	36 (35)	20.102				
35	37 (104,44)	20.273	13604	3.143	3.143	0.799907
36	38 (37,42,59)	20.403	6517	1.901	1.901	0.633765
37	39 (41,64,71,72)	20.754	16634	2.997	2.997	1.025781
38	41 (68,96)	20.902	178			
39	42 (40)	21.017	2989	0.687	0.687	0.803861
40	43 (57,103)	21.264	182			
41	44 (58,67,100)	21.444	492	0.080	0.080	1.130457
42	45 (63)	21.604	885	0.154	0.154	1.065114
43	46 (74,94,61)	21.776	10876	1.389	1.389	1.447388
44	47 (70)	21.905	16041	2.485	2.485	1.192906
45	48 (66,76,98,80,93,95,102,88)	22.022	23186	5.263	5.263	0.814226
46	49 (55,91,121)	22.323	1798	0.373	0.373	0.891333
47	50 (56,60)	22.632	16213	2.558	2.558	1.171222
48	51 (84,92,155)	22.868	3238	1.316	1.316	0.454881
49	52 (89)	22.976	381	0.073	0.073	0.964360
50	53 (90,101)	23.127	7074	1.316	1.316	0.993640
51	54 (79,99,113)	23.322	4336	0.541	0.541	1.481599
52	55 (119,150)	23.607	216	0.020	0.020	1.945040
53	56 (78,83,112,108)	23.702	497	0.110	0.110	0.837952
54	57 (97,152,86)	23.911	2673	0.409	0.409	1.207250
55	58 (81,87,117,125,115,145)	24.084	4493	0.848	0.848	0.979407
56	59 (116,85,111)	24.238	3839	0.512	0.512	1.386558
57	60 (120,136)	24.360	2566	0.548	0.548	0.865093
58	61 (77,110,148)	24.494	8552	1.557	1.557	1.015216
59	62 (154)	24.772				
60	63 (82)	24.863	1956	0.322	0.322	1.124060
61	64 (151)	25.156	6915	1.243	1.243	1.028527
62	65 (124,135)	25.290	1827	0.212	0.212	1.592514
63	66 (144)	25.359	1545	0.439	0.439	0.650866
64	67 (107,109,147)	25.417	386	0.095	0.095	0.751877
65	68 (123)	25.532	157			
66	69 (106,118,139,149)	25.605	18747	2.924	2.924	1.185000
67	70 (140)	25.727				
68	71 (114,134,143)	26.012	765	0.148	0.148	0.957886

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.231	158	0.021	0.021	1.374036
70	73 (146,165,188)	26.510	1736	0.285	0.285	1.125469
71	74 (105,132,161)	26.646	7872	0.990	0.990	1.468918
72	75 (153)	26.800	16618	2.153	2.153	1.426663
73	76 (127,168,184)	26.921				
74	77 (141)	27.338	5189	1.243	1.243	0.771766
75	78 (179)	27.407	6731	1.067	1.067	1.165678
76	79 (137)	27.631	197	0.055	0.055	0.663318
77	80 (130,176)	27.770	2045	0.190	0.190	1.990023
78	82 (138,163,164)	28.006	13371	1.974	1.974	1.252045
79	83 (158,160,186)	28.191	1191	0.183	0.183	1.204927
80	84 (126,129)	28.403	252	0.009	0.009	4.932500
81	85 (166,178)	28.739	2689	0.804	0.804	0.618085
82	87 (175,159)	29.055	512	0.146	0.146	0.647810
83	88 (182,187)	29.203	17604	2.631	2.631	1.236392
84	89 (128,162)	29.319	812	0.073	0.073	2.053575
85	90 (183)	29.511	7776	1.243	1.243	1.156560
86	91 (167)	29.797	190	0.036	0.036	0.977205
87	92 (185)	30.124	2903	0.343	0.343	1.561975
88	93 (174,181)	30.505	15057	2.339	2.339	1.189738
89	94 (177)	30.784	6979	1.243	1.243	1.037961
90	95 (156,171)	31.084	3242	0.578	0.578	1.037282
91	96 (157,202)	31.351	2036	0.048	0.048	7.795494
92	98 (173)	31.512	232	0.028	0.028	1.543075
93	99 (201)	31.903	1664	0.285	0.285	1.078339
94	100 (172,204)	32.153	2103	0.409	0.409	0.949723
95	101 (192,197)	32.475	370	0.080	0.080	0.850107
96	102 (180)	32.644	32315	4.459	4.459	1.339430
97	103 (193)	32.890	1822	0.307	0.307	1.097044
98	104 (191)	33.208	386	0.088	0.088	0.814432
99	105 (200,169)	33.558	1887	0.314	0.314	1.109606
100	106 (170)	34.735	9932	0.936	0.936	1.962040
101	107 (190)	35.010	2421	0.307	0.307	1.457521
102	108 (198)	35.878	716	0.088	0.088	1.509841
103	109 (199)	36.131	12752	3.070	3.070	0.767643
104	110 (196,203)	36.685	14077	3.143	3.143	0.827749
105	111 (189)	37.881	215	0.029	0.029	1.362922
106	112 (195)	39.439	4753	0.404	0.404	2.173343
107	113 (208)	39.949	688	0.180	0.180	0.704267
108	114 (207)	40.946	508	0.068	0.068	1.382280

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.364	12500	1.316	1.316	1.755926
110	116 (205)	43.290	464	0.080	0.080	1.066322
111	I.S. (OCN)	46.961	98369	18.180	18.180	5410.856097
112	117 (206)	48.515	4134	0.497	0.497	1.537570
113	118 (209)	54.640	48	0.009	0.009	0.992034



Sample Name: ICAL0622D  
Sample ID: ICAL 314 ng/mL  
Date Acquired: 06/22/2009 20:14:11 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-711-9



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0622D Sample Amount: 1  
 Sample ID: ICAL 314 ng/mL Dilution: 1  
 Date Acquired: 06/22/2009 20:14:11 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 06/24/2009 00:58:39 EDT  
 Sample Set Name: GC16\_CC\_062209 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062209 Current Date: 06/24/2009  
 Run Time: 60.0 Minutes Current Time: 17:15:34 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-711-9

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.781	5053	21.928	21.928	0.043457
2	3 (2)	12.819				
3	4 (3)	12.924	1365	12.792	12.792	0.020129
4	5 (4,10)	13.531	3464	6.213	6.213	0.105134
5	6 (7,9)	14.401	8045	2.193	2.193	0.691910
6	7 (6)	14.710	6127	3.472	3.472	0.332768
7	8 (5,8)	14.902	24267	25.583	25.583	0.178873
8	9 (14)	15.464				
9	10 (19)	15.542	1491	0.512	0.512	0.549331
10	11 (30)	16.011				
11	12 (11)	16.075				
12	13 (12,13)	16.288	1192	0.488	0.488	0.460869
13	14 (15,18)	16.403	19371	6.761	6.761	0.540267
14	15 (17)	16.492	10483	6.761	6.761	0.292380
15	16 (24,27)	16.793	2298	0.475	0.475	0.912366
16	17 (16,32)	17.072	17796	7.127	7.127	0.470872
17	19 (23,34,54)	17.508	279			
18	20 (29)	17.693	424	0.097	0.097	0.824690
19	21 (26)	17.817	4056	1.316	1.316	0.581280
20	22 (25)	17.900	2572	0.585	0.585	0.829566
21	23 (31)	18.099	27576	7.534	7.534	0.690201
22	24 (28,50)	18.147	44474	9.643	9.643	0.869708
23	25 (20,21,33,53)	18.502	24528	7.258	7.258	0.637237
24	26 (22,51)	18.735	17022	5.300	5.300	0.605674
25	27 (45)	18.961	5991	1.626	1.626	0.694752
26	28 (36)	19.098				
27	29 (46)	19.237	2411	0.731	0.731	0.621966
28	30 (39)	19.364				

**Peak Results**

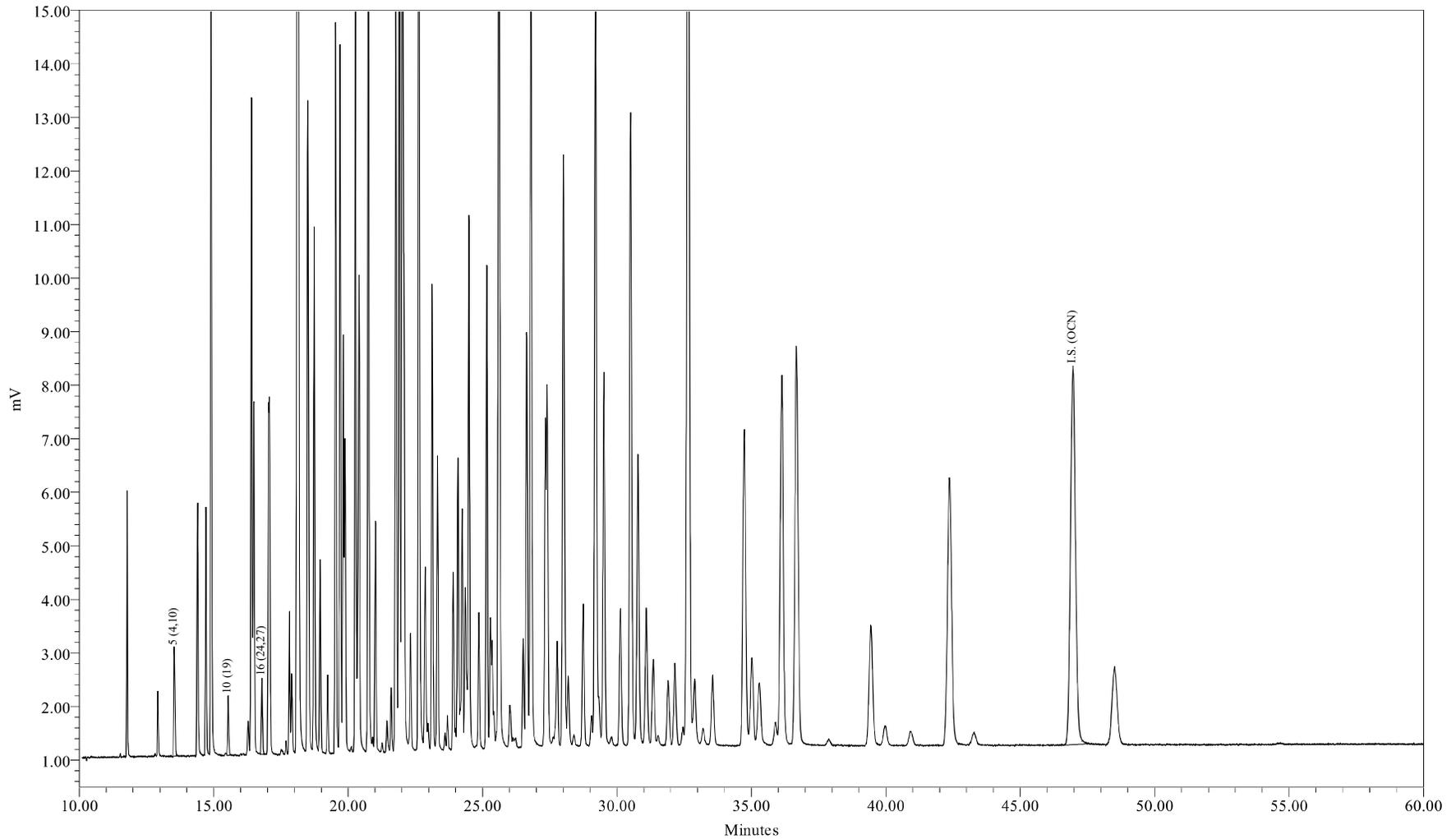
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.532	23159	8.716	8.716	0.501034
30	32 (43,49)	19.703	21858	4.203	4.203	0.980660
31	33 (38,47)	19.817	12980	1.828	1.828	1.339268
32	34 (48,75)	19.880	10005	1.828	1.828	1.032330
33	35 (62,65)	20.019				
34	36 (35)	20.117	376			
35	37 (104,44)	20.273	31383	7.858	7.858	0.753140
36	38 (37,42,59)	20.404	15710	4.751	4.751	0.623524
37	39 (41,64,71,72)	20.752	38740	7.492	7.492	0.975038
38	41 (68,96)	20.919	594			
39	42 (40)	21.014	7454	1.718	1.718	0.818242
40	43 (57,103)	21.271	451			
41	44 (58,67,100)	21.449	1179	0.201	0.201	1.106202
42	45 (63)	21.605	2178	0.384	0.384	1.070430
43	46 (74,94,61)	21.775	24931	3.472	3.472	1.354097
44	47 (70)	21.905	36732	6.213	6.213	1.114891
45	48 (66,76,98,80,93,95,102,88)	22.022	53191	13.157	13.157	0.762366
46	49 (55,91,121)	22.320	4706	0.932	0.932	0.952129
47	50 (56,60)	22.630	37783	6.396	6.396	1.114013
48	51 (84,92,155)	22.865	7722	3.289	3.289	0.442690
49	52 (89)	22.965	952	0.183	0.183	0.982394
50	53 (90,101)	23.126	16309	3.289	3.289	0.935028
51	54 (79,99,113)	23.322	10304	1.352	1.352	1.436982
52	55 (119,150)	23.606	537	0.051	0.051	1.975419
53	56 (78,83,112,108)	23.695	1218	0.274	0.274	0.838692
54	57 (97,152,86)	23.908	6459	1.023	1.023	1.190379
55	58 (81,87,117,125,115,145)	24.085	11334	2.120	2.120	1.008282
56	59 (116,85,111)	24.238	8292	1.279	1.279	1.222306
57	60 (120,136)	24.359	6930	1.370	1.370	0.953512
58	61 (77,110,148)	24.491	19317	3.892	3.892	0.935913
59	62 (154)	24.763	316			
60	63 (82)	24.860	4849	0.804	0.804	1.137320
61	64 (151)	25.157	16190	3.106	3.106	0.982764
62	65 (124,135)	25.290	4563	0.530	0.530	1.623432
63	66 (144)	25.354	3595	1.097	1.097	0.618249
64	67 (107,109,147)	25.422	1108	0.237	0.237	0.879752
65	68 (123)	25.528	395			
66	69 (106,118,139,149)	25.606	43247	7.309	7.309	1.115690
67	70 (140)	25.727				
68	71 (114,134,143)	26.023	2111	0.369	0.369	1.078946

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.213	405	0.053	0.053	1.436971
70	73 (146,165,188)	26.511	3979	0.713	0.713	1.052745
71	74 (105,132,161)	26.641	18274	2.476	2.476	1.391796
72	75 (153)	26.798	38203	5.382	5.382	1.338582
73	76 (127,168,184)	26.921				
74	77 (141)	27.336	12142	3.106	3.106	0.737086
75	78 (179)	27.405	15449	2.668	2.668	1.091929
76	79 (137)	27.637	455	0.137	0.137	0.626724
77	80 (130,176)	27.774	5304	0.475	0.475	2.105974
78	82 (138,163,164)	28.005	31189	4.964	4.964	1.184809
79	83 (158,160,186)	28.192	3318	0.457	0.457	1.370083
80	84 (126,129)	28.390	627	0.024	0.024	4.997108
81	85 (166,178)	28.745	6874	2.010	2.010	0.644891
82	87 (175,159)	29.059	1319	0.366	0.366	0.680716
83	88 (182,187)	29.202	40719	6.578	6.578	1.167227
84	89 (128,162)	29.323	2023	0.183	0.183	2.087645
85	90 (183)	29.511	18594	3.106	3.106	1.128702
86	91 (167)	29.789	536	0.090	0.090	1.127558
87	92 (185)	30.126	7039	0.859	0.859	1.545978
88	93 (174,181)	30.504	35005	5.847	5.847	1.128890
89	94 (177)	30.777	16705	3.106	3.106	1.014042
90	95 (156,171)	31.083	8010	1.444	1.444	1.046137
91	96 (157,202)	31.349	4873	0.121	0.121	7.614182
92	98 (173)	31.526	571	0.069	0.069	1.550084
93	99 (201)	31.908	3652	0.713	0.713	0.966019
94	100 (172,204)	32.151	4757	1.023	1.023	0.876758
95	101 (192,197)	32.457	902	0.201	0.201	0.846390
96	102 (180)	32.644	75132	11.147	11.147	1.271005
97	103 (193)	32.884	4600	0.768	0.768	1.130234
98	104 (191)	33.221	1105	0.219	0.219	0.950543
99	105 (200,169)	33.558	4690	0.786	0.786	1.125586
100	106 (170)	34.736	23556	2.339	2.339	1.899163
101	107 (190)	35.019	6403	0.768	0.768	1.573119
102	108 (198)	35.905	1567	0.219	0.219	1.347971
103	109 (199)	36.129	30142	7.675	7.675	0.740573
104	110 (196,203)	36.673	33553	7.858	7.858	0.805216
105	111 (189)	37.890	549	0.073	0.073	1.421028
106	112 (195)	39.446	11287	1.010	1.010	2.106667
107	113 (208)	39.962	1828	0.451	0.451	0.763982
108	114 (207)	40.930	1344	0.170	0.170	1.491399

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.365	29534	3.289	3.289	1.693212
110	116 (205)	43.283	1146	0.201	0.201	1.075628
111	I.S. (OCN)	46.957	96408	18.180	18.180	5302.989380
112	117 (206)	48.509	10340	1.242	1.242	1.569378
113	118 (209)	54.670	130	0.022	0.022	1.107003



Sample Name: ICAL0622E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 06/22/2009 21:21:42 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-711-10

Sample Name: ICAL0622E

1 of 1



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0622E Sample Amount: 1  
 Sample ID: ICAL 627 ng/mL Dilution: 1  
 Date Acquired: 06/22/2009 21:21:42 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 06/24/2009 00:58:43 EDT  
 Sample Set Name: GC16\_CC\_062209 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062209 Current Date: 06/24/2009  
 Run Time: 60.0 Minutes Current Time: 17:15:37 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-711-10

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.783				
2	3 (2)	12.819				
3	4 (3)	12.925				
4	5 (4,10)	13.531	6473	12.426	12.426	0.102997
5	6 (7,9)	14.400				
6	7 (6)	14.708				
7	8 (5,8)	14.900				
8	9 (14)	15.464				
9	10 (19)	15.542	2918	1.024	1.024	0.563531
10	11 (30)	16.011				
11	12 (11)	16.075				
12	13 (12,13)	16.278				
13	14 (15,18)	16.404				
14	15 (17)	16.490				
15	16 (24,27)	16.792	4077	0.950	0.950	0.848641
16	17 (16,32)	17.044				
17	19 (23,34,54)	17.512				
18	20 (29)	17.694				
19	21 (26)	17.817				
20	22 (25)	17.900				
21	23 (31)	18.098				
22	24 (28,50)	18.144				
23	25 (20,21,33,53)	18.502				
24	26 (22,51)	18.733				
25	27 (45)	18.957				
26	28 (36)	19.098				
27	29 (46)	19.233				
28	30 (39)	19.364				

**Peak Results**

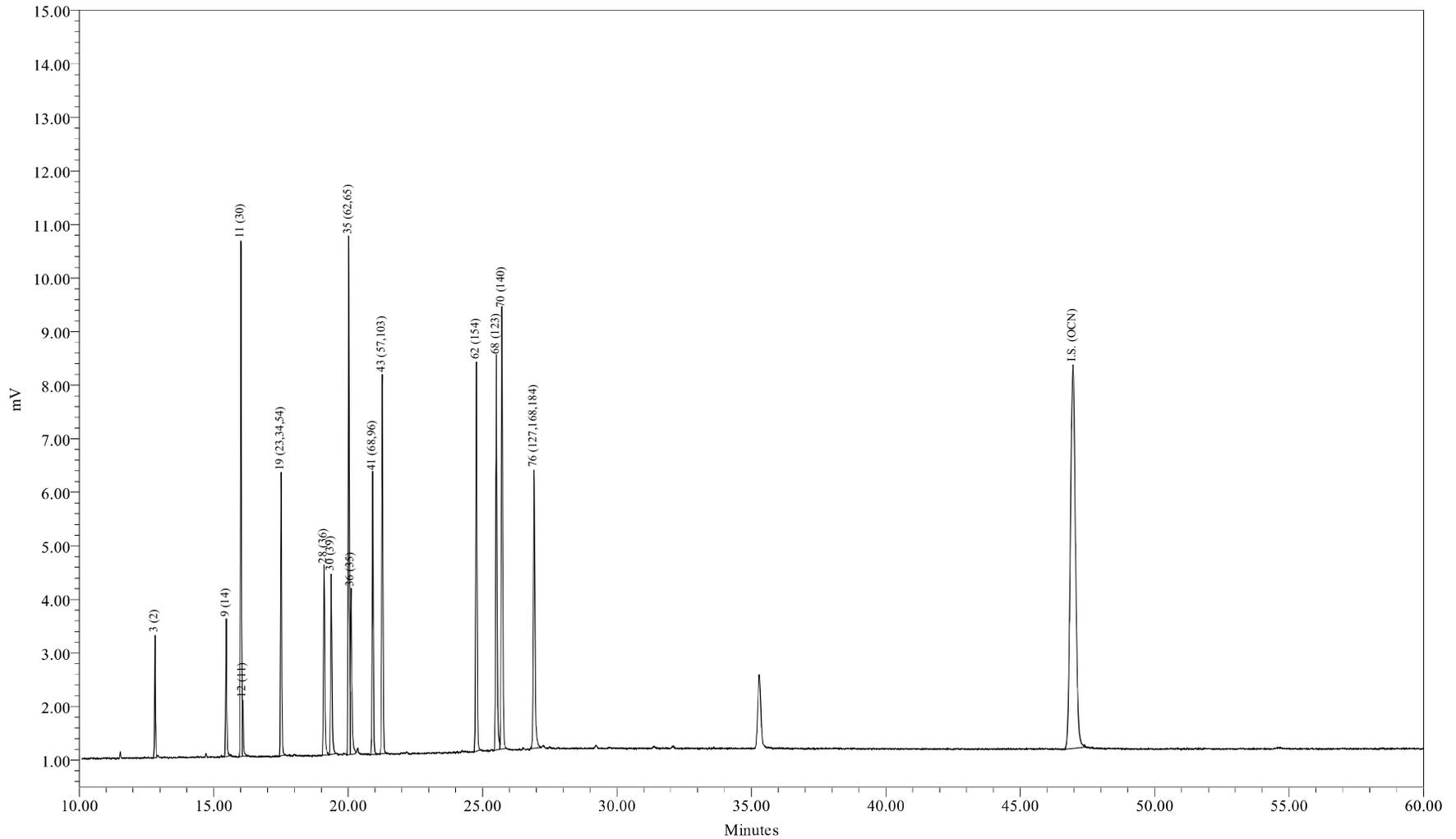
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.531				
30	32 (43,49)	19.699				
31	33 (38,47)	19.815				
32	34 (48,75)	19.877				
33	35 (62,65)	20.019				
34	36 (35)	20.102				
35	37 (104,44)	20.271				
36	38 (37,42,59)	20.404				
37	39 (41,64,71,72)	20.754				
38	41 (68,96)	20.919				
39	42 (40)	21.016				
40	43 (57,103)	21.270				
41	44 (58,67,100)	21.444				
42	45 (63)	21.605				
43	46 (74,94,61)	21.775				
44	47 (70)	21.903				
45	48 (66,76,98,80,93,95,102,88)	22.022				
46	49 (55,91,121)	22.322				
47	50 (56,60)	22.630				
48	51 (84,92,155)	22.866				
49	52 (89)	22.971				
50	53 (90,101)	23.123				
51	54 (79,99,113)	23.320				
52	55 (119,150)	23.602				
53	56 (78,83,112,108)	23.694				
54	57 (97,152,86)	23.907				
55	58 (81,87,117,125,115,145)	24.082				
56	59 (116,85,111)	24.236				
57	60 (120,136)	24.361				
58	61 (77,110,148)	24.493				
59	62 (154)	24.772				
60	63 (82)	24.860				
61	64 (151)	25.154				
62	65 (124,135)	25.290				
63	66 (144)	25.356				
64	67 (107,109,147)	25.424				
65	68 (123)	25.518				
66	69 (106,118,139,149)	25.611				
67	70 (140)	25.727				
68	71 (114,134,143)	26.023				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.224				
70	73 (146,165,188)	26.520				
71	74 (105,132,161)	26.645				
72	75 (153)	26.806				
73	76 (127,168,184)	26.921				
74	77 (141)	27.343				
75	78 (179)	27.415				
76	79 (137)	27.627				
77	80 (130,176)	27.780				
78	82 (138,163,164)	28.015				
79	83 (158,160,186)	28.194				
80	84 (126,129)	28.404				
81	85 (166,178)	28.746				
82	87 (175,159)	29.062				
83	88 (182,187)	29.211				
84	89 (128,162)	29.342				
85	90 (183)	29.521				
86	91 (167)	29.805				
87	92 (185)	30.137				
88	93 (174,181)	30.511				
89	94 (177)	30.787				
90	95 (156,171)	31.088				
91	96 (157,202)	31.357				
92	98 (173)	31.524				
93	99 (201)	31.903				
94	100 (172,204)	32.160				
95	101 (192,197)	32.458				
96	102 (180)	32.645				
97	103 (193)	32.897				
98	104 (191)	33.204				
99	105 (200,169)	33.556				
100	106 (170)	34.742				
101	107 (190)	35.017				
102	108 (198)	35.895				
103	109 (199)	36.137				
104	110 (196,203)	36.686				
105	111 (189)	37.861				
106	112 (195)	39.446				
107	113 (208)	39.966				
108	114 (207)	40.926				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.366				
110	116 (205)	43.266				
111	I.S. (OCN)	46.956	91950	18.180	18.180	5057.755546
112	117 (206)	48.494				
113	118 (209)	54.650				



Sample Name: SC0622A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 06/22/2009 23:36:28 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-711-12

Sample Name: SC0622A

1 of 1



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Sample Name: SC0622A Sample Amount: 1  
 Sample ID: SUP CONG STD 200/5 ng/mL Dilution: 1  
 Date Acquired: 06/22/2009 23:36:28 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 06/24/2009 00:58:47 EDT  
 Sample Set Name: GC16\_CC\_062209 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062209 Current Date: 06/24/2009  
 Run Time: 60.0 Minutes Current Time: 17:15:41 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-711-12

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.783				
2	3 (2)	12.817	4758	200.000	200.000	0.004591
3	4 (3)	12.925				
4	5 (4,10)	13.533				
5	6 (7,9)	14.400				
6	7 (6)	14.708				
7	8 (5,8)	14.900				
8	9 (14)	15.465	7160	5.000	5.000	0.276372
9	10 (19)	15.541				
10	11 (30)	16.014	24691	5.000	5.000	0.952986
11	12 (11)	16.078	2866	5.000	5.000	0.110605
12	13 (12,13)	16.278				
13	14 (15,18)	16.404				
14	15 (17)	16.490				
15	16 (24,27)	16.793				
16	17 (16,32)	17.044				
17	19 (23,34,54)	17.509	15200	5.000	5.000	0.586656
18	20 (29)	17.694				
19	21 (26)	17.817				
20	22 (25)	17.900				
21	23 (31)	18.098				
22	24 (28,50)	18.144				
23	25 (20,21,33,53)	18.502				
24	26 (22,51)	18.733				
25	27 (45)	18.957				
26	28 (36)	19.106	11709	5.000	5.000	0.451933
27	29 (46)	19.233				
28	30 (39)	19.368	11484	5.000	5.000	0.443238

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.531				
30	32 (43,49)	19.699				
31	33 (38,47)	19.815				
32	34 (48,75)	19.877				
33	35 (62,65)	20.023	28381	5.000	5.000	1.095427
34	36 (35)	20.109	11540	5.000	5.000	0.445428
35	37 (104,44)	20.271				
36	38 (37,42,59)	20.404				
37	39 (41,64,71,72)	20.754				
38	41 (68,96)	20.916	16622	5.000	5.000	0.641545
39	42 (40)	21.016				
40	43 (57,103)	21.271	21944	5.000	5.000	0.846983
41	44 (58,67,100)	21.444				
42	45 (63)	21.605				
43	46 (74,94,61)	21.775				
44	47 (70)	21.903				
45	48 (66,76,98,80,93,95,102,88)	22.022				
46	49 (55,91,121)	22.322				
47	50 (56,60)	22.630				
48	51 (84,92,155)	22.866				
49	52 (89)	22.971				
50	53 (90,101)	23.123				
51	54 (79,99,113)	23.320				
52	55 (119,150)	23.602				
53	56 (78,83,112,108)	23.694				
54	57 (97,152,86)	23.907				
55	58 (81,87,117,125,115,145)	24.082				
56	59 (116,85,111)	24.236				
57	60 (120,136)	24.361				
58	61 (77,110,148)	24.493				
59	62 (154)	24.771	24373	5.000	5.000	0.940736
60	63 (82)	24.860				
61	64 (151)	25.154				
62	65 (124,135)	25.290				
63	66 (144)	25.356				
64	67 (107,109,147)	25.424				
65	68 (123)	25.513	26394	5.000	5.000	1.018719
66	69 (106,118,139,149)	25.611				
67	70 (140)	25.722	28701	5.000	5.000	1.107774
68	71 (114,134,143)	26.023				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.224				
70	73 (146,165,188)	26.520				
71	74 (105,132,161)	26.645				
72	75 (153)	26.806				
73	76 (127,168,184)	26.915	22576	5.000	5.000	0.871349
74	77 (141)	27.343				
75	78 (179)	27.415				
76	79 (137)	27.627				
77	80 (130,176)	27.780				
78	82 (138,163,164)	28.015				
79	83 (158,160,186)	28.194				
80	84 (126,129)	28.404				
81	85 (166,178)	28.746				
82	87 (175,159)	29.062				
83	88 (182,187)	29.211				
84	89 (128,162)	29.342				
85	90 (183)	29.521				
86	91 (167)	29.805				
87	92 (185)	30.137				
88	93 (174,181)	30.511				
89	94 (177)	30.787				
90	95 (156,171)	31.088				
91	96 (157,202)	31.357				
92	98 (173)	31.524				
93	99 (201)	31.903				
94	100 (172,204)	32.160				
95	101 (192,197)	32.458				
96	102 (180)	32.645				
97	103 (193)	32.897				
98	104 (191)	33.204				
99	105 (200,169)	33.556				
100	106 (170)	34.742				
101	107 (190)	35.017				
102	108 (198)	35.895				
103	109 (199)	36.137				
104	110 (196,203)	36.686				
105	111 (189)	37.861				
106	112 (195)	39.446				
107	113 (208)	39.966				
108	114 (207)	40.926				

**Peak Results**

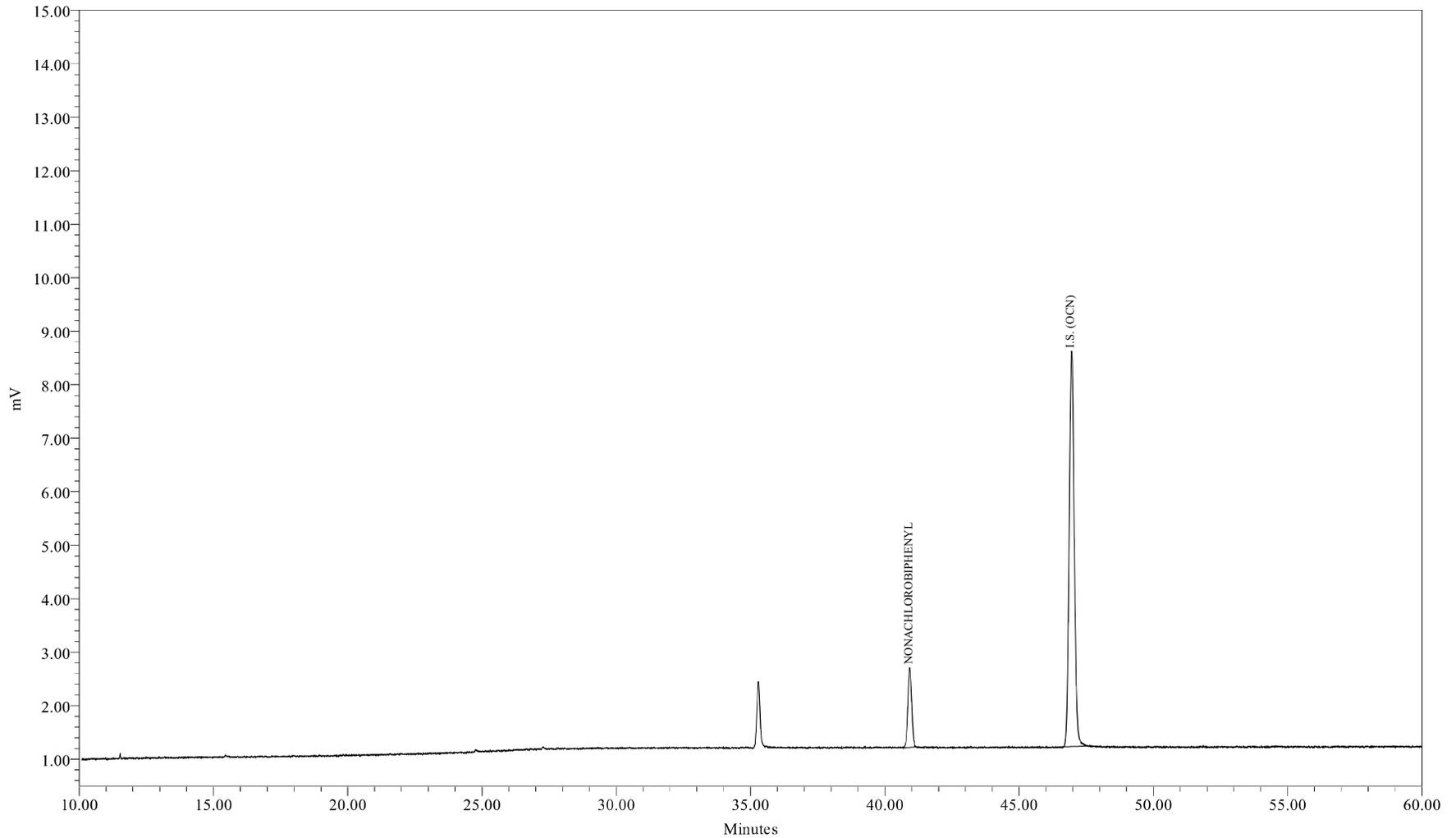
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.366				
110	116 (205)	43.266				
111	I.S. (OCN)	46.955	94204	18.180	18.180	5181.746192
112	117 (206)	48.494				
113	118 (209)	54.650				



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Sample Name: SS0622A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 06/23/2009 00:43:46 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_2\_062209  
LIMS File ID: GC16-711-13

Sample Name: SS0622A

1 of 1



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Sample Name: SS0622A Sample Amount: 1  
Sample ID: Surr Std (207) 2.0 ng/mL Dilution: 1  
Date Acquired: 06/23/2009 00:43:46 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 06/24/2009 00:52:44 EDT  
Sample Set Name: GC16\_CC\_062209 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_2\_062209 Current Date: 06/24/2009  
Run Time: 60.0 Minutes Current Time: 17:15:50 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-711-13

**Peak Results**

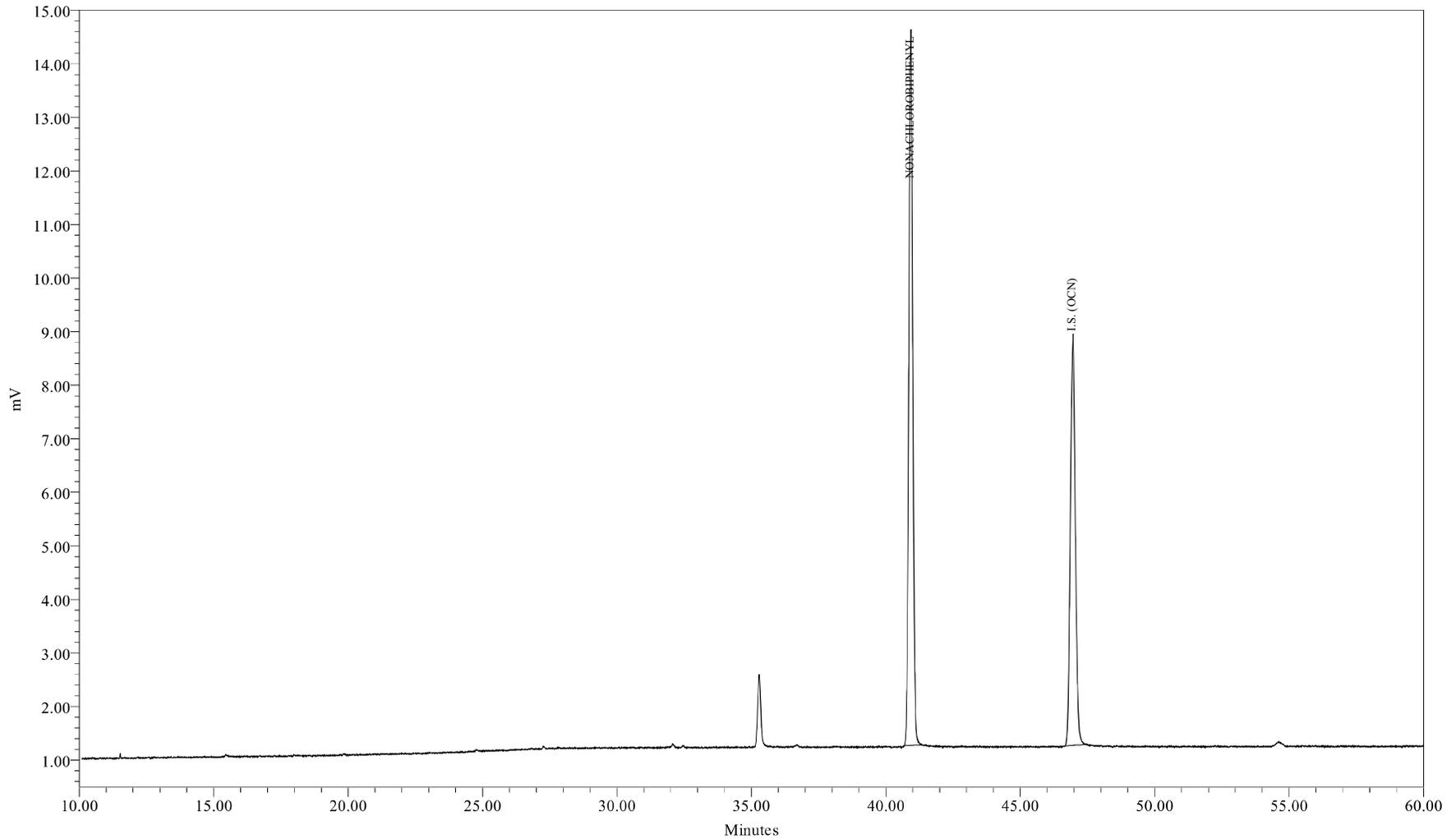
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.921	14940	2.000	2.000	1.407462
2	I.S. (OCN)	46.952	96486	18.180	18.180	5307.255887



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Sample Name: SS0622B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 06/23/2009 01:51:08 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_20\_062209  
LIMS File ID: GC16-711-14

Sample Name: SS0622B

1 of 1

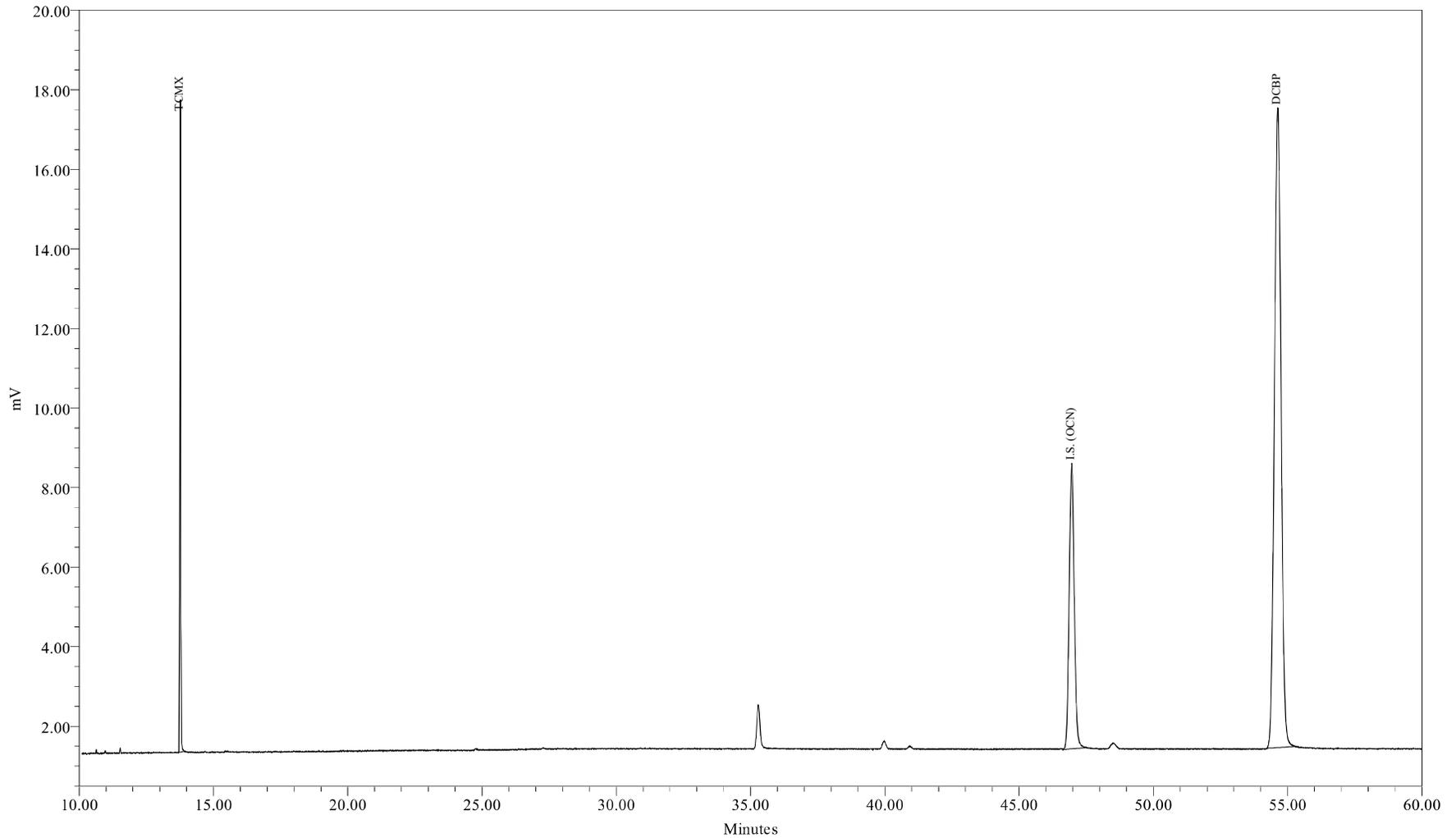


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Sample Name: SS0622B Sample Amount: 1  
Sample ID: Surr Std (207) 20.0 ng/mL Dilution: 1  
Date Acquired: 06/23/2009 01:51:08 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 06/24/2009 00:54:01 EDT  
Sample Set Name: GC16\_CC\_062209 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_20\_062209 Current Date: 06/24/2009  
Run Time: 60.0 Minutes Current Time: 17:15:53 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-711-14

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.928	137256	20.000	20.000	1.268761
2	I.S. (OCN)	46.963	98337	18.180	18.180	5409.057840



Sample Name: TD0624A  
Sample ID: Surr TCMX/DCBP 5/50 ppb  
Date Acquired: 06/24/2009 18:42:13 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_TD\_S\_062409  
LIMS File ID:

Sample Name: TD0624A

1 of 1



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Sample Name: TD0624A Sample Amount: 1  
Sample ID: Surr TCMX/DCBP 5/50 ppb Dilution: 1  
Date Acquired: 06/24/2009 18:42:13 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 06/24/2009 21:08:25 EDT  
Sample Set Name: GC16\_062409c User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_TD\_S\_062409 Current Date: 06/24/2009  
Run Time: 60.0 Minutes Current Time: 21:26:32 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID:

**Peak Results**

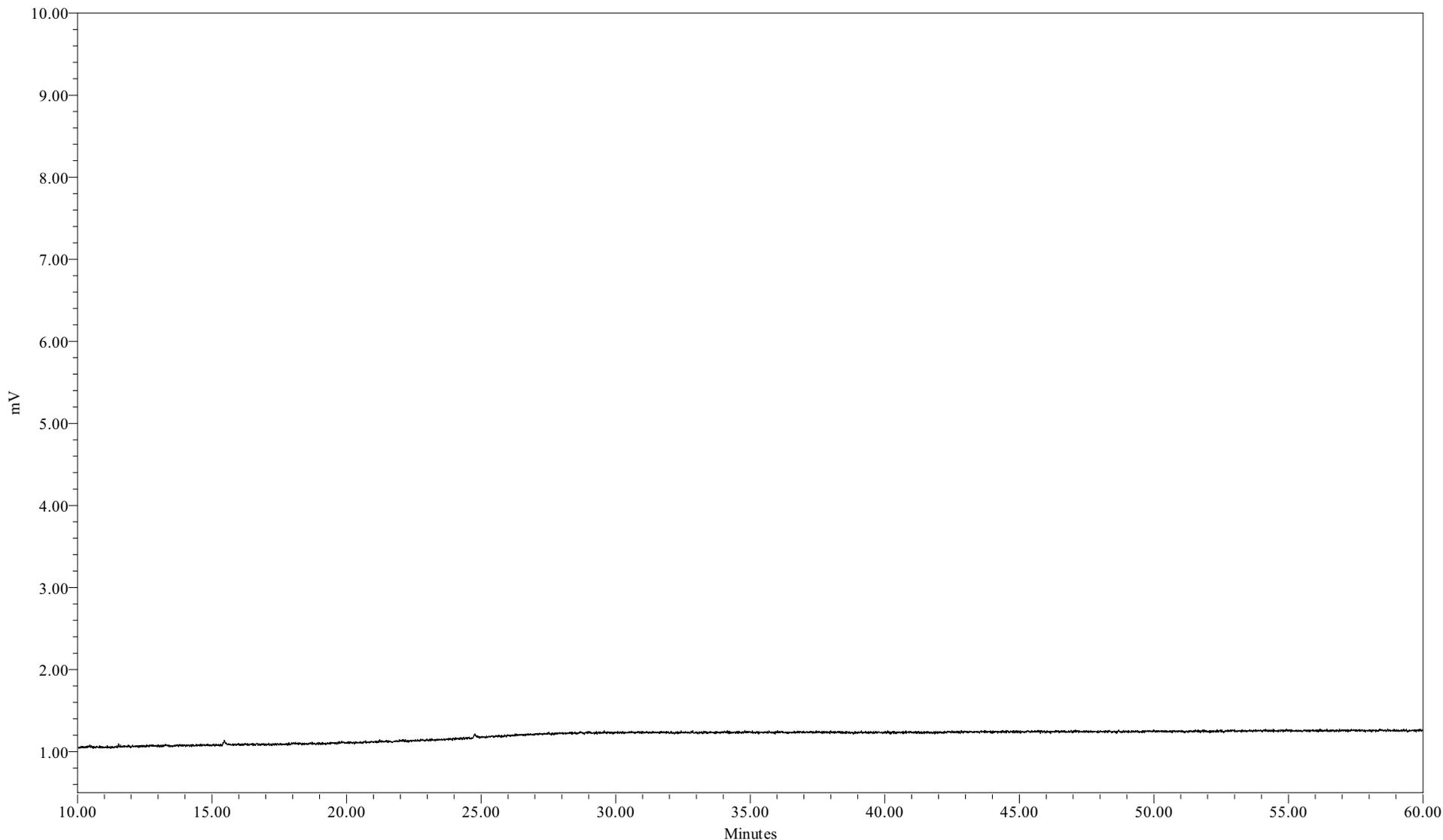
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	TCMX	13.763	36356	5.000	5.000	1.415819
2	I.S. (OCN)	46.958	93366	18.180	18.180	5135.665544
3	DCBP	54.624	276551	50.000	50.000	1.076983



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Sample Name: 090622B06  
Sample ID: HEXANE BLANK  
Date Acquired: 6/23/2009 2:58:32 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID:

**Northeast Analytical, Inc.**  
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: Northeast Analytical, Inc.      SGD NO: 09060293  
 ELAP ID No: 11078  
 INSTRUMENT ID: GC16  
 GC COLUMN: Agilent DB-1; 30 meter; 0.25 micron phase thickness

**Continuing Calibration Standard CCCS0624A**

Lab File ID:	<u>GC16-712-4</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>06/24/2009</u>	Calculated Amount:	<u>133 ng/ml</u>
Time:	<u>10:10:44</u>	OCN (I.S.) Peak Area:	<u>95474</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>100</u>

**Continuing Calibration Standard CCCS0624B**

Lab File ID:	<u>GC16-712-9</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>06/24/2009</u>	Calculated Amount:	<u>132 ng/ml</u>
Time:	<u>15:48:25</u>	OCN (I.S.) Peak Area:	<u>95987</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>101</u>

**Continuing Calibration Standard CCCS0624D**

Lab File ID:	<u>GC16-712-15</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>06/24/2009</u>	Calculated Amount:	<u>132 ng/ml</u>
Time:	<u>23:11:55</u>	OCN (I.S.) Peak Area:	<u>97355</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>102</u>

**Northeast Analytical, Inc.**  
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: <u>Northeast Analytical, Inc.</u>	SGD NO: <u>09060293</u>
ELAP ID No: <u>11078</u>	
INSTRUMENT ID: <u>GC16</u>	
GC COLUMN: <u>Agilent DB-1; 30 meter; 0.25 micron phase thickness</u>	

**Continuing Calibration Standard CCCS0625A**

Lab File ID: <u>GC16-713-6</u>	Known Amount: <u>122 ng/ml</u>	
Date: <u>06/25/2009</u>	Calculated Amount: <u>127 ng/ml</u>	
Time: <u>07:40:14</u>	OCN (I.S.) Peak Area: <u>101767</u>	
	% Recovery of I.S. ( 50 - 150 %): <u>107</u>	

**Continuing Calibration Standard CCCS0625B**

Lab File ID: <u>GC16-713-11</u>	Known Amount: <u>122 ng/ml</u>	
Date: <u>06/25/2009</u>	Calculated Amount: <u>125 ng/ml</u>	
Time: <u>13:16:58</u>	OCN (I.S.) Peak Area: <u>107385</u>	
	% Recovery of I.S. ( 50 - 150 %): <u>113</u>	

Lab File ID: _____	Known Amount: _____	
Date: _____	Calculated Amount: _____	
Time: _____	OCN (I.S.) Peak Area: _____	
	% Recovery of I.S. ( 50 - 150 %): _____	

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**122 ng/mL LOW LEVEL STANDARD**

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0624A File ID: GC16-712-4		Continuing Calibration CCCS0624B File ID: GC16-712-9		Continuing Calibration CCCS0624D File ID: GC16-712-15	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.34	-0.375	1.36	0.814	1.37	1.51
37 (104,44)	3.06	+/-15	3.50	14.3	3.49	14.1	3.47	13.4
47 (70)	2.42	+/-15	2.49	2.93	2.51	3.91	2.54	4.76
93 (174,181)	2.28	+/-15	2.39	5.04	2.45	7.57	2.46	8.04
102 (180)	4.35	+/-15	4.33	-0.362	4.44	2.04	4.50	3.34
116 (205)	0.0788	+/-30	0.0755	-4.16	0.0801	1.70	0.0862	9.42
Total CCCS Conc.	122	+/-15	133	8.71	132	8.36	132	8.19

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0624A	1713 uV	856.5 uV	557 uV
CCCS0624B	1692 uV	846 uV	556 uV
CCCS0624D	1734 uV	867 uV	550 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0624A	1528 uV	509.3 uV	147 uV
CCCS0624B	1555 uV	518.3 uV	143 uV
CCCS0624D	1611 uV	537 uV	124 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**122 ng/mL LOW LEVEL STANDARD**

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0625A File ID: GC16-713-6		Continuing Calibration CCCS0625B File ID: GC16-713-11		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.29	-4.20	1.27	-5.81		
37 (104,44)	3.06	+/-15	3.29	7.60	3.22	5.19		
47 (70)	2.42	+/-15	2.49	2.84	2.45	1.19		
93 (174,181)	2.28	+/-15	2.41	5.88	2.35	3.20		
102 (180)	4.35	+/-15	4.46	2.55	4.39	0.911		
116 (205)	0.0788	+/-30	0.0755	-4.13	0.0755	-4.17		
Total CCCS Conc.	122	+/-15	127	4.17	125	2.60		

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0625A	1719 uV	859.5 uV	545 uV
CCCS0625B	1782 uV	891 uV	557 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0625A	1739 uV	579.7 uV	100 uV
CCCS0625B	1774 uV	591.3 uV	90 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0624A	CCCS0624A File ID: GC16-712-4		CCCS0624B File ID: GC16-712-9		CCCS0624D File ID: GC16-712-15	
			Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
1	2 (1)	+/-0.07	11.78		11.78		11.78	
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.93		12.93		12.93	
4	5 (4,10)	+/-0.07	13.53		13.53		13.53	
5	6 (7,9)	+/-0.07	14.40		14.40		14.40	
6	7 (6)	+/-0.07	14.71		14.71		14.71	
7	8 (5,8)	+/-0.07	14.90		14.90		14.90	
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.54		15.54		15.54	
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.29		16.28		16.29	
13	14 (15,18)	+/-0.07	16.40		16.40		16.40	
14	15 (17)	+/-0.07	16.49		16.49		16.49	
15	16 (24,27)	+/-0.07	16.79		16.79		16.79	
16	17 (16,32)	+/-0.07	17.05		17.05		17.05	
17	19 (23,34,54)	+/-0.07	17.51		17.54		17.50	
18	20 (29)	+/-0.07	17.70		17.70		17.69	
19	21 (26)	+/-0.07	17.82		17.82		17.81	
20	22 (25)	+/-0.07	17.90		17.90		17.90	
21	23 (31)	+/-0.07	18.10		18.10		18.10	
22	24 (28,50)	+/-0.07	18.15		18.15		18.15	
23	25 (20,21,33,53)	+/-0.07	18.50		18.50		18.50	
24	26 (22,51)	+/-0.07	18.74		18.73		18.73	
25	27 (45)	+/-0.07	18.96		18.96		18.96	
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.24		19.24		19.23	
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.53		19.53		19.53	
30	32 (43,49)	+/-0.07	19.70		19.70		19.70	
31	33 (38,47)	+/-0.07	19.82		19.82		19.82	
32	34 (48,75)	+/-0.07	19.88		19.88		19.88	
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.13		20.11		20.10	
35	37 (104,44)	+/-0.07	20.28		20.27		20.27	
36	38 (37,42,59)	+/-0.07	20.41		20.40		20.40	
37	39 (41,64,71,72)	+/-0.07	20.75		20.75		20.75	
38	41 (68,96)	+/-0.07	20.91		20.92		20.91	
39	42 (40)	+/-0.07	21.02		21.02		21.02	
40	43 (57,103)	+/-0.07	21.26		21.27		21.26	
41	44 (58,67,100)	+/-0.07	21.45		21.45		21.44	
42	45 (63)	+/-0.07	21.60		21.61		21.60	
43	46 (74,94,61)	+/-0.07	21.78		21.78		21.77	
44	47 (70)	+/-0.07	21.91		21.91		21.90	
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	22.02		22.02		22.02	
46	49 (55,91,121)	+/-0.07	22.32		22.32		22.32	
47	50 (56,60)	+/-0.07	22.63		22.63		22.63	
48	51 (84,92,155)	+/-0.07	22.86		22.86		22.86	
49	52 (89)	+/-0.07	22.97		22.97		22.97	
50	53 (90,101)	+/-0.07	23.13		23.13		23.13	
51	54 (79,99,113)	+/-0.07	23.32		23.32		23.32	
52	55 (119,150)	+/-0.07	23.60		23.60		23.59	
53	56 (78,83,112,108)	+/-0.07	23.70		23.70		23.70	
54	57 (97,152,86)	+/-0.07	23.91		23.91		23.91	
55	58 (81,87,117,125,115,145)	+/-0.07	24.08		24.08		24.08	
56	59 (116,85,111)	+/-0.07	24.24		24.24		24.23	

Nea Lims Version : 4.4.4.4

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

Peak Number DB-1	Retention Time Window CCCS0624A	CCCS0624A File ID: GC16-712-4		CCCS0624B File ID: GC16-712-9		CCCS0624D File ID: GC16-712-15	
		Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
57	60 (120,136)	+/-0.07	24.36		24.36		24.36
58	61 (77,110,148)	+/-0.07	24.49		24.49		24.49
59	62 (154)	+/-0.07					
60	63 (82)	+/-0.07	24.86		24.86		24.86
61	64 (151)	+/-0.07	25.16		25.16		25.16
62	65 (124,135)	+/-0.07	25.29		25.29		25.29
63	66 (144)	+/-0.07	25.36		25.36		25.35
64	67 (107,109,147)	+/-0.07	25.42		25.42		25.42
65	68 (123)	+/-0.07	25.52		25.53		25.53
66	69 (106,118,139,149)	+/-0.07	25.61		25.60		25.60
67	70 (140)	+/-0.07					
68	71 (114,134,143)	+/-0.07	26.00		26.01		26.00
69	72 (122,131,133,142)	+/-0.07	26.22		26.23		26.23
70	73 (146,165,188)	+/-0.07	26.51		26.51		26.51
71	74 (105,132,161)	+/-0.07	26.64		26.65		26.65
72	75 (153)	+/-0.07	26.80		26.80		26.80
73	76 (127,168,184)	+/-0.07					
74	77 (141)	+/-0.07	27.34		27.34		27.34
75	78 (179)	+/-0.07	27.40		27.41		27.41
76	79 (137)	+/-0.07	27.61		27.64		27.59
77	80 (130,176)	+/-0.07	27.78		27.77		27.77
78	82 (138,163,164)	+/-0.07	28.01		28.01		28.00
79	83 (158,160,186)	+/-0.07	28.19		28.19		28.18
80	84 (126,129)	+/-0.07	28.40		28.40		28.41
81	85 (166,178)	+/-0.07	28.74		28.75		28.74
82	87 (175,159)	+/-0.07	29.04		29.05		29.06
83	88 (182,187)	+/-0.07	29.20		29.20		29.20
84	89 (128,162)	+/-0.07	29.31		29.31		29.31
85	90 (183)	+/-0.07	29.52		29.51		29.51
86	91 (167)	+/-0.07	29.79		29.77		29.80
87	92 (185)	+/-0.07	30.13		30.13		30.13
88	93 (174,181)	+/-0.07	30.51		30.51		30.51
89	94 (177)	+/-0.07	30.78		30.78		30.78
90	95 (156,171)	+/-0.07	31.09		31.09		31.09
91	96 (157,202)	+/-0.07	31.34		31.35		31.35
92	98 (173)	+/-0.07	31.54		31.53		31.52
93	99 (201)	+/-0.07	31.91		31.91		31.90
94	100 (172,204)	+/-0.07	32.16		32.16		32.16
95	101 (192,197)	+/-0.07	32.43		32.48		32.44
96	102 (180)	+/-0.07	32.65		32.64		32.64
97	103 (193)	+/-0.07	32.89		32.90		32.89
98	104 (191)	+/-0.07	33.20		33.21		33.21
99	105 (200,169)	+/-0.07	33.56		33.57		33.55
100	106 (170)	+/-0.07	34.74		34.73		34.73
101	107 (190)	+/-0.07	35.02		35.01		35.01
102	108 (198)	+/-0.07	35.89		35.90		35.90
103	109 (199)	+/-0.07	36.13		36.13		36.12
104	110 (196,203)	+/-0.07	36.68		36.68		36.68
105	111 (189)	+/-0.07	37.87		37.84		37.89
106	112 (195)	+/-0.07	39.46		39.43		39.44
107	113 (208)	+/-0.07	39.98		39.98		39.96
108	114 (207)	+/-0.07	40.94		40.92		40.91
109	115 (194)	+/-0.07	42.37		42.37		42.37
110	116 (205)	+/-0.07	43.26		43.27		43.27
111	117 (206)	+/-0.07	48.52		48.52		48.50
112	118 (209)	+/-0.07	54.64		54.64		54.64

Nea Lims Version : 4.4.4.4

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0625A	CCCS0625A File ID: GC16-713-6		CCCS0625B File ID: GC16-713-11		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.78		11.78			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.92		12.92			
4	5 (4,10)	+/-0.07	13.53		13.53			
5	6 (7,9)	+/-0.07	14.40		14.40			
6	7 (6)	+/-0.07	14.71		14.71			
7	8 (5,8)	+/-0.07	14.90		14.90			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.54		15.54			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.28		16.27			
13	14 (15,18)	+/-0.07	16.40		16.40			
14	15 (17)	+/-0.07	16.49		16.49			
15	16 (24,27)	+/-0.07	16.79		16.79			
16	17 (16,32)	+/-0.07	17.04		17.05			
17	19 (23,34,54)	+/-0.07	17.50		17.51			
18	20 (29)	+/-0.07	17.69		17.69			
19	21 (26)	+/-0.07	17.82		17.81			
20	22 (25)	+/-0.07	17.90		17.90			
21	23 (31)	+/-0.07	18.10		18.10			
22	24 (28,50)	+/-0.07	18.15		18.15			
23	25 (20,21,33,53)	+/-0.07	18.50		18.50			
24	26 (22,51)	+/-0.07	18.73		18.73			
25	27 (45)	+/-0.07	18.96		18.96			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.24		19.24			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.53		19.53			
30	32 (43,49)	+/-0.07	19.70		19.70			
31	33 (38,47)	+/-0.07	19.82		19.82			
32	34 (48,75)	+/-0.07	19.88		19.88			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.09		20.10			
35	37 (104,44)	+/-0.07	20.27		20.27			
36	38 (37,42,59)	+/-0.07	20.40		20.40			
37	39 (41,64,71,72)	+/-0.07	20.75		20.75			
38	41 (68,96)	+/-0.07	20.91		20.92			
39	42 (40)	+/-0.07	21.02		21.02			
40	43 (57,103)	+/-0.07	21.26		21.26			
41	44 (58,67,100)	+/-0.07	21.45		21.45			
42	45 (63)	+/-0.07	21.60		21.60			
43	46 (74,94,61)	+/-0.07	21.77		21.77			
44	47 (70)	+/-0.07	21.90		21.90			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	22.02		22.02			
46	49 (55,91,121)	+/-0.07	22.32		22.32			
47	50 (56,60)	+/-0.07	22.63		22.63			
48	51 (84,92,155)	+/-0.07	22.87		22.87			
49	52 (89)	+/-0.07	22.97		22.96			
50	53 (90,101)	+/-0.07	23.13		23.13			
51	54 (79,99,113)	+/-0.07	23.32		23.32			
52	55 (119,150)	+/-0.07	23.60		23.60			
53	56 (78,83,112,108)	+/-0.07	23.70		23.69			
54	57 (97,152,86)	+/-0.07	23.91		23.91			
55	58 (81,87,117,125,115,145)	+/-0.07	24.08		24.08			
56	59 (116,85,111)	+/-0.07	24.24		24.24			

Nea Lims Version : 4.4.4.4

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0625A	CCCS0625A File ID: GC16-713-6		CCCS0625B File ID: GC16-713-11		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	24.36		24.36			
58	61 (77,110,148)	+/-0.07	24.49		24.49			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.86		24.86			
61	64 (151)	+/-0.07	25.16		25.16			
62	65 (124,135)	+/-0.07	25.29		25.29			
63	66 (144)	+/-0.07	25.36		25.35			
64	67 (107,109,147)	+/-0.07	25.42		25.42			
65	68 (123)	+/-0.07	25.52		25.51			
66	69 (106,118,139,149)	+/-0.07	25.60		25.60			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	26.01		26.01			
69	72 (122,131,133,142)	+/-0.07	26.22		26.21			
70	73 (146,165,188)	+/-0.07	26.51		26.51			
71	74 (105,132,161)	+/-0.07	26.64		26.64			
72	75 (153)	+/-0.07	26.80		26.80			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.34		27.33			
75	78 (179)	+/-0.07	27.40		27.40			
76	79 (137)	+/-0.07	27.60		27.61			
77	80 (130,176)	+/-0.07	27.78		27.77			
78	82 (138,163,164)	+/-0.07	28.01		28.01			
79	83 (158,160,186)	+/-0.07	28.18		28.19			
80	84 (126,129)	+/-0.07	28.40		28.41			
81	85 (166,178)	+/-0.07	28.74		28.74			
82	87 (175,159)	+/-0.07	29.04		29.05			
83	88 (182,187)	+/-0.07	29.20		29.20			
84	89 (128,162)	+/-0.07	29.32		29.30			
85	90 (183)	+/-0.07	29.51		29.51			
86	91 (167)	+/-0.07	29.79		29.79			
87	92 (185)	+/-0.07	30.12		30.12			
88	93 (174,181)	+/-0.07	30.51		30.50			
89	94 (177)	+/-0.07	30.78		30.78			
90	95 (156,171)	+/-0.07	31.09		31.08			
91	96 (157,202)	+/-0.07	31.35		31.35			
92	98 (173)	+/-0.07	31.53		31.53			
93	99 (201)	+/-0.07	31.91		31.90			
94	100 (172,204)	+/-0.07	32.16		32.14			
95	101 (192,197)	+/-0.07	32.45		32.45			
96	102 (180)	+/-0.07	32.64		32.64			
97	103 (193)	+/-0.07	32.90		32.89			
98	104 (191)	+/-0.07	33.20		33.21			
99	105 (200,169)	+/-0.07	33.56		33.56			
100	106 (170)	+/-0.07	34.73		34.73			
101	107 (190)	+/-0.07	35.01		35.01			
102	108 (198)	+/-0.07	35.89		35.89			
103	109 (199)	+/-0.07	36.12		36.13			
104	110 (196,203)	+/-0.07	36.68		36.68			
105	111 (189)	+/-0.07	37.86		37.86			
106	112 (195)	+/-0.07	39.44		39.43			
107	113 (208)	+/-0.07	39.98		39.97			
108	114 (207)	+/-0.07	40.93		40.92			
109	115 (194)	+/-0.07	42.36		42.38			
110	116 (205)	+/-0.07	43.26		43.24			
111	117 (206)	+/-0.07	48.52		48.51			
112	118 (209)	+/-0.07	54.70		54.67			

Nea Lims Version : 4.4.4.4

# Calibration Component Summary Table

## Component Summary for RF



Project Name:	GC16_May_2009	Current Time:	11:07:00
Sample Set Name:	GC16_062309A	Current Date:	6/29/2009
Processing Method:	CSGB_LL1X_062209	Calibration ID:	6173
Run Time:	60 Minutes	Calibration Date(s):	6/22/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999668	Y = 4.39e-002 X - 1.60e-003	-0.00160331955497306	0.0438899237101189
2	3 (2)	1.000000	Y = 4.59e-003 X	0	0.00459084984193251
3	4 (3)	0.999952	Y = 2.00e-002 X + 2.21e-004	0.000221204063250963	0.0199983641918623
4	5 (4,10)	0.999813	Y = 1.04e-001 X + 3.09e-004	0.00030947120500624	0.104142149389202
5	6 (7,9)	0.999829	Y = 6.94e-001 X + 7.96e-004	0.000796420956853727	0.693649499899571
6	7 (6)	0.999832	Y = 3.34e-001 X + 5.05e-003	0.00505432141295503	0.334471307068268
7	8 (5,8)	0.999633	Y = 1.81e-001 X + 1.95e-002	0.0195157120653735	0.180967185455967
8	9 (14)	1.000000	Y = 2.76e-001 X	0	0.276371818608361
9	10 (19)	0.999524	Y = 5.62e-001 X + 1.59e-003	0.00158994124118805	0.561607928211566
10	11 (30)	1.000000	Y = 9.53e-001 X	0	0.952986354898468
11	12 (11)	1.000000	Y = 1.11e-001 X	0	0.110605420631362
12	13 (12,13)	0.999909	Y = 4.59e-001 X - 8.71e-004	-0.00087130035908547	0.459353342036812
13	14 (15,18)	0.999443	Y = 5.48e-001 X + 1.11e-002	0.0111363086398231	0.548330022392452
14	15 (17)	0.999114	Y = 2.99e-001 X + 3.13e-003	0.00313242569948269	0.298935073173636
15	16 (24,27)	0.999335	Y = 8.63e-001 X + 1.66e-003	0.00166186991740408	0.862887981950347
16	17 (16,32)	0.999433	Y = 4.79e-001 X + 6.78e-003	0.00677593898578199	0.479161496544632
17	19 (23,34,54)	1.000000	Y = 5.87e-001 X	0	0.586655797132744
18	20 (29)	0.999182	Y = 8.06e-001 X + 1.50e-004	0.000150078348195352	0.805761233580217
19	21 (26)	0.999812	Y = 5.83e-001 X + 3.54e-004	0.000354231675958439	0.583309471810198
20	22 (25)	0.999895	Y = 8.26e-001 X - 3.18e-004	-0.00031764207115503	0.825940544832239
21	23 (31)	0.999094	Y = 7.02e-001 X + 2.33e-002	0.0233477182264701	0.701816496224243
22	24 (28,50)	0.999778	Y = 8.78e-001 X + 2.75e-002	0.0274879927700278	0.877562610397912
23	25 (20,21,33,53)	0.999797	Y = 6.43e-001 X + 1.16e-002	0.0115736090765375	0.643090607061956
24	26 (22,51)	0.999807	Y = 6.10e-001 X + 2.24e-003	0.00223609435177541	0.610371556980454
25	27 (45)	0.999990	Y = 6.91e-001 X + 3.44e-003	0.0034390491964309	0.690815809576831
26	28 (36)	1.000000	Y = 4.52e-001 X	0	0.451932534527148
27	29 (46)	0.999945	Y = 6.19e-001 X - 5.73e-004	-0.00057339408083839	0.61911256522504
28	30 (39)	1.000000	Y = 4.43e-001 X	0	0.443238220280136
29	31 (52,69,73)	0.999299	Y = 5.10e-001 X + 1.63e-002	0.0162543469229948	0.5101923967964
30	32 (43,49)	0.999443	Y = 9.94e-001 X + 2.58e-002	0.0257727975155713	0.993851417573168
31	33 (38,47)	0.999796	Y = 1.35e+000 X + 1.44e-002	0.0144046231368129	1.34718209186398
32	34 (48,75)	0.999728	Y = 1.04e+000 X + 1.19e-002	0.0119211544094178	1.03824766297661
33	35 (62,65)	1.000000	Y = 1.10e+000 X	0	1.09542734352519
34	36 (35)	1.000000	Y = 4.45e-001 X	0	0.445427937821275
35	37 (104,44)	0.999647	Y = 7.62e-001 X + 2.46e-002	0.0245580268483545	0.761576282041683
36	38 (37,42,59)	0.999987	Y = 6.23e-001 X + 1.28e-002	0.0127929789775931	0.622628023005524
37	39 (41,64,71,72)	0.999627	Y = 9.86e-001 X + 2.25e-002	0.0224727173242822	0.985900418891344
38	41 (68,96)	1.000000	Y = 6.42e-001 X	0	0.6415450774403642



Project Name:	GC16_May_2009	Current Time:	11:07:00
Sample Set Name:	GC16_062309A	Current Date:	6/29/2009
Processing Method:	CSGB_LL1X_062209	Calibration ID:	6173
Run Time:	60 Minutes	Calibration Date(s):	6/22/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999973	Y = 8.16e-001 X - 2.27e-003	-0.00226819521447674	0.816080714037274
40	43 (57,103)	1.000000	Y = 8.47e-001 X	0	0.846983419856348
41	44 (58,67,100)	0.999913	Y = 1.12e+000 X - 6.18e-004	-0.00061842435800940	1.11715288726762
42	45 (63)	0.999992	Y = 1.07e+000 X + 2.15e-004	0.000215206939324281	1.06836321320641
43	46 (74,94,61)	0.999450	Y = 1.38e+000 X + 8.59e-003	0.00859280358386494	1.37752472532455
44	47 (70)	0.999424	Y = 1.13e+000 X + 3.22e-002	0.0322286959123179	1.13043271269647
45	48 (66,76,98,80,93,95,102,88)	0.999517	Y = 7.73e-001 X + 4.11e-002	0.0410952081634903	0.772878356690641
46	49 (55,91,121)	0.999581	Y = 9.39e-001 X - 2.91e-003	-0.00290816169089847	0.93941343702863
47	50 (56,60)	0.999743	Y = 1.13e+000 X + 1.77e-002	0.0177220264542681	1.12612883460436
48	51 (84,92,155)	0.999723	Y = 4.46e-001 X + 6.62e-004	0.000661983023670265	0.446384019416283
49	52 (89)	0.999959	Y = 9.78e-001 X - 9.35e-005	-9.35089588730981E-5	0.978196296943535
50	53 (90,101)	0.999498	Y = 9.46e-001 X + 1.47e-002	0.0147257696462009	0.946078361972017
51	54 (79,99,113)	0.999909	Y = 1.45e+000 X + 3.55e-003	0.00355048353725007	1.44558028205561
52	55 (119,150)	0.999965	Y = 1.97e+000 X + 6.78e-005	6.77578159778217E-5	1.96527031877687
53	56 (78,83,112,108)	1.000000	Y = 8.39e-001 X - 1.83e-004	-0.00018284151731218	0.839430714431526
54	57 (97,152,86)	0.999775	Y = 1.19e+000 X + 2.98e-003	0.00297603032040927	1.19260661819961
55	58 (81,87,117,125,115,145)	0.999690	Y = 9.99e-001 X + 4.06e-003	0.00405971191450627	0.998895713521306
56	59 (116,85,111)	0.998054	Y = 1.27e+000 X + 1.44e-003	0.00143887085961802	1.26535028065943
57	60 (120,136)	0.998511	Y = 9.29e-001 X - 1.72e-003	-0.00172168422437069	0.928789648782222
58	61 (77,110,148)	0.999299	Y = 9.53e-001 X + 1.34e-002	0.0133965713292645	0.952804036455821
59	62 (154)	1.000000	Y = 9.41e-001 X	0	0.940735701511085
60	63 (82)	0.999952	Y = 1.13e+000 X + 3.79e-003	0.00378667082185968	1.12733072116105
61	64 (151)	0.999808	Y = 9.90e-001 X + 1.11e-002	0.011114253526344	0.990474398884863
62	65 (124,135)	0.999935	Y = 1.61e+000 X + 2.11e-003	0.00211494590494971	1.60954340426179
63	66 (144)	0.999674	Y = 6.28e-001 X - 5.68e-004	-0.00056785979608192	0.628105922820191
64	67 (107,109,147)	0.997373	Y = 8.51e-001 X - 1.11e-003	-0.00110890525243269	0.851457681009369
65	68 (123)	1.000000	Y = 1.02e+000 X	0	1.01871917809621
66	69 (106,118,139,149)	0.999590	Y = 1.13e+000 X + 3.66e-002	0.0365739813593855	1.12870642368037
67	70 (140)	1.000000	Y = 1.11e+000 X	0	1.10777394416754
68	71 (114,134,143)	0.998456	Y = 1.05e+000 X - 1.22e-003	-0.00122295932488886	1.04887186377378
69	72 (122,131,133,142)	0.999794	Y = 1.43e+000 X - 2.26e-004	-0.00022628623008718	1.42580003292406
70	73 (146,165,188)	0.999559	Y = 1.07e+000 X + 3.42e-003	0.0034248755056196	1.06639996171933
71	74 (105,132,161)	0.999667	Y = 1.41e+000 X + 3.42e-003	0.00342031681216337	1.4116316472664
72	75 (153)	0.999572	Y = 1.36e+000 X + 3.31e-002	0.0331288082368246	1.35510451900675
73	76 (127,168,184)	1.000000	Y = 8.71e-001 X	0	0.871349460245448
74	77 (141)	0.999766	Y = 7.44e-001 X + 6.60e-003	0.00660391550127382	0.744070789882806
75	78 (179)	0.999295	Y = 1.11e+000 X - 2.32e-003	-0.00231694284510109	1.11216943068339
76	79 (137)	0.999603	Y = 6.35e-001 X + 1.48e-004	0.000147862484081114	0.635182545631284

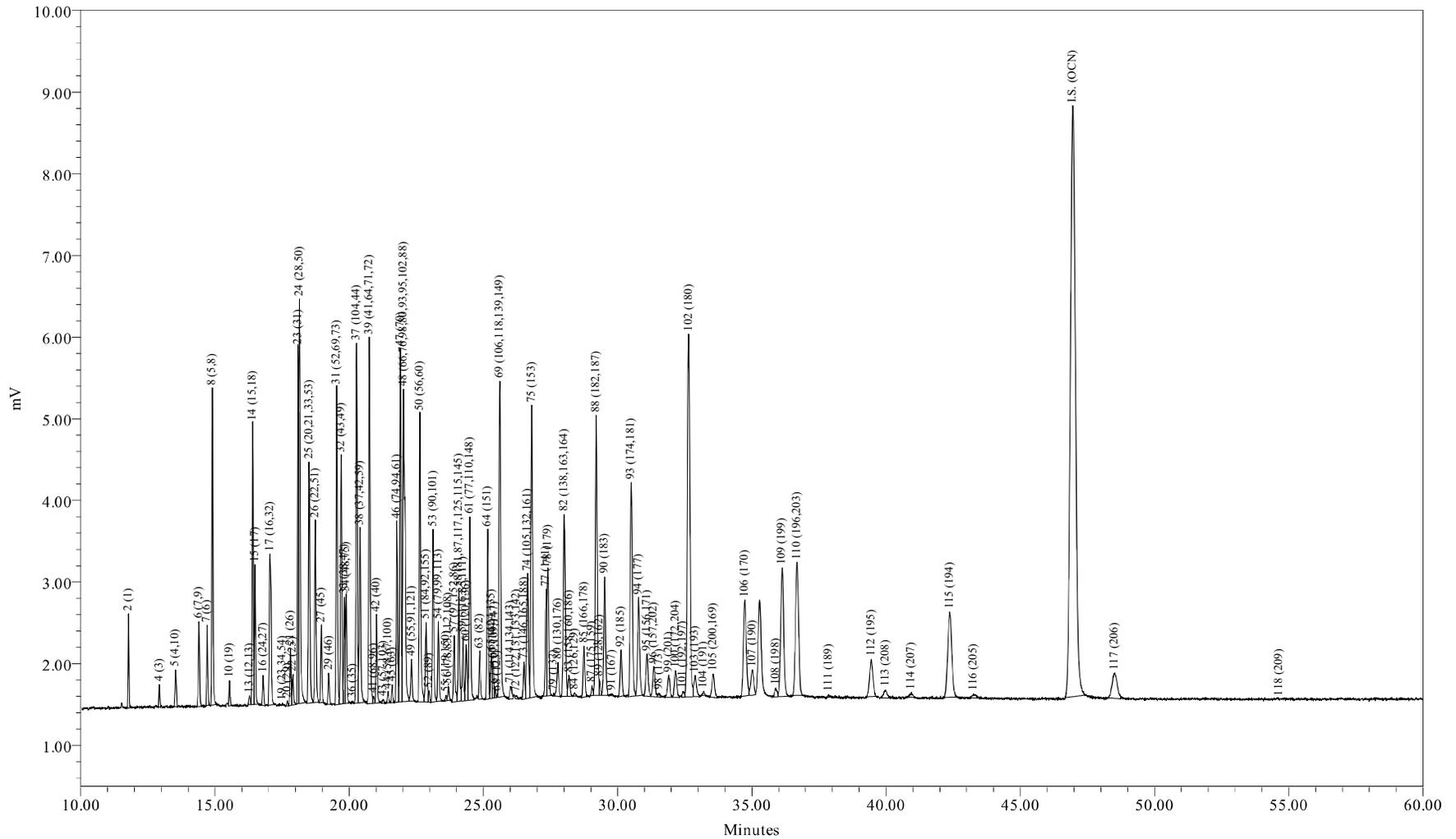


Project Name:	GC16_May_2009	Current Time:	11:07:00
Sample Set Name:	GC16_062309A	Current Date:	6/29/2009
Processing Method:	CSGB_LL1X_062209	Calibration ID:	6173
Run Time:	60 Minutes	Calibration Date(s):	6/22/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.999598	Y = 2.07e+000 X + 7.10e-005	7.10157753782692E-5	2.0723230709162
78	82 (138,163,164)	0.999672	Y = 1.20e+000 X + 1.62e-002	0.0161641637037899	1.19925275479497
79	83 (158,160,186)	0.998345	Y = 1.33e+000 X - 1.76e-003	-0.00175525786172864	1.32935670189667
80	84 (126,129)	0.999983	Y = 4.99e+000 X - 1.17e-004	-0.00011746558589476	4.98648855253461
81	85 (166,178)	0.999722	Y = 6.39e-001 X - 9.28e-004	-0.00092815868612206	0.638680285453393
82	87 (175,159)	0.999640	Y = 6.70e-001 X + 5.44e-004	0.000544427317498097	0.669643222997581
83	88 (182,187)	0.999604	Y = 1.18e+000 X + 2.92e-002	0.0292288450754978	1.18109691474571
84	89 (128,162)	0.999986	Y = 2.09e+000 X - 1.52e-003	-0.00152068698892943	2.09007769475821
85	90 (183)	0.999716	Y = 1.14e+000 X + 3.61e-003	0.0036071556057764	1.13641109094203
86	91 (167)	0.997786	Y = 1.09e+000 X - 4.67e-004	-0.00046730400196951	1.09389628795123
87	92 (185)	0.999935	Y = 1.55e+000 X - 2.51e-003	-0.00250754977210543	1.55354382182669
88	93 (174,181)	0.999685	Y = 1.14e+000 X + 1.23e-002	0.0122877058551296	1.1433162634392
89	94 (177)	0.999637	Y = 1.02e+000 X - 1.65e-003	-0.00164722833153474	1.02311239610764
90	95 (156,171)	0.999990	Y = 1.05e+000 X - 1.84e-003	-0.00184390048554672	1.04527180489779
91	96 (157,202)	0.999923	Y = 7.67e+000 X - 5.53e-004	-0.00055321538356434	7.66892110619196
92	98 (173)	0.999996	Y = 1.55e+000 X + 9.20e-005	9.19538018853555E-5	1.54630676682593
93	99 (201)	0.998516	Y = 9.96e-001 X + 7.39e-004	0.000738662188427552	0.99649453016875
94	100 (172,204)	0.999239	Y = 8.97e-001 X + 2.82e-004	0.000281530070841252	0.896875794157939
95	101 (192,197)	0.999998	Y = 8.47e-001 X + 8.86e-005	8.85573701658732E-5	0.846782866584046
96	102 (180)	0.999646	Y = 1.28e+000 X + 4.85e-002	0.0484772126874091	1.28497338864756
97	103 (193)	0.999627	Y = 1.12e+000 X - 1.71e-003	-0.00170673979932129	1.12234006025018
98	104 (191)	0.997402	Y = 9.19e-001 X - 9.23e-004	-0.00092329300263040	0.919356909460018
99	105 (200,169)	0.999983	Y = 1.12e+000 X - 1.86e-003	-0.00185635452490573	1.12429927500587
100	106 (170)	0.999856	Y = 1.92e+000 X - 7.25e-003	-0.00724901882133189	1.92128112188892
101	107 (190)	0.999215	Y = 1.54e+000 X - 3.05e-003	-0.00304812258335252	1.5445513159845
102	108 (198)	0.998465	Y = 1.38e+000 X + 1.78e-003	0.00177881214277317	1.38068321598446
103	109 (199)	0.999836	Y = 7.48e-001 X + 2.13e-003	0.00212534291642363	0.747990982739091
104	110 (196,203)	0.999845	Y = 8.10e-001 X + 1.46e-002	0.0145924026305093	0.809556284711782
105	111 (189)	0.999787	Y = 1.41e+000 X - 6.71e-005	-6.70808169729101E-5	1.40647769740559
106	112 (195)	0.999847	Y = 2.13e+000 X - 6.71e-003	-0.00671164982852312	2.13413002221701
107	113 (208)	0.999304	Y = 7.52e-001 X - 1.45e-003	-0.00144982291077717	0.752223606081824
108	114 (207)	0.999219	Y = 1.46e+000 X + 4.07e-004	0.000407137560099358	1.4582632588821
109	115 (194)	0.999848	Y = 1.71e+000 X + 4.71e-003	0.00470603356282995	1.7090494079803
110	116 (205)	0.999991	Y = 1.07e+000 X - 1.46e-005	-1.46338433280879E-5	1.07322584494539
111	117 (206)	0.999966	Y = 1.57e+000 X - 4.10e-003	-0.00409914387326571	1.56519165933688
112	118 (209)	0.998710	Y = 1.08e+000 X - 1.11e-004	-0.00011140732033910	1.08275187876697
113	I.S. (OCN)	1.000000	Y = 5.22e+003 X	0	5224.97956139134

# Standards Raw Data



Sample Name: CCCS0624A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 6/24/2009 10:10:44 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-712-4

Sample Name: CCCS0624A

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 10:10:44  
 Lab Sample ID: CCCS0624A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-712-4

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 133 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.75	17.34
Di	12.85	15.95
Tri	18.28	19.74
Tetra	21.43	20.49
Penta	8.26	7.01
Hexa	7.74	6.02
Hepta	12.55	8.85
Octa	6.58	4.26
Nona	0.57	0.34
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	9.6255	40.8	33.5
A1242	23+24/31+28	6.7551	28.7	23.5
A1254SED	61/100	1.6332	6.93	
A1254BIO	69+75+82/149+153+138	6.7898		23.6
A1260	102/180	4.3343	18.4	15.1
A1268	115/194	1.2185	5.17	4.24

Ortho Cl / biphenyl Residue = 1.55

Meta + Para Cl / biphenyl Residue = 2.05

Total Cl / biphenyl Residue = 3.61

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 10:10:44  
 Lab Sample ID: CCCS0624A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-712-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.78	188.7	2210	9.63	51.0			
3	12.82	188.7		-	-			
4	12.93	188.7	627	5.96	31.6			
5	13.53	223.1	1370	2.50	11.2			
6	14.40	223.1	3176	0.871	3.90			
7	14.71	223.1	2389	1.34	6.03			
8	14.90	223.1	10867	11.3	50.8			
9	15.46	223.1		-	-			
10	15.54	257.5	774	0.260	1.01			
11	16.01	257.5		-	-			
12	16.08	223.1		-	-			
13	16.29	223.1	362	0.152	0.681			
14	16.40	249.0	9823	3.39	13.6			
15	16.49	257.5	5082	3.23	12.5			
16	16.79	257.5	1089	0.238	0.926			
17	17.05	257.5	8677	3.43	13.3			
19	17.51	267.9	49	0.0159	0.0594			
20	17.70	257.5	179	0.0422	0.164			
21	17.82	257.5	2026	0.661	2.57			
22	17.90	257.5	1232	0.284	1.10			
23	18.10	257.5	11982	3.22	12.5			
24	18.15	257.5	16447	3.54	13.7			
25	18.50	259.5	11270	3.32	12.8			
26	18.74	258.7	7230	2.25	8.70			
27	18.96	292.0	2748	0.752	2.58			
28	19.10	257.5		-	-			
29	19.24	292.0	1129	0.348	1.19			
30	19.36	257.5		-	-			
31	19.53	292.0	12128	4.49	15.4			
32	19.70	292.0	9811	1.85	6.35			
33	19.82	292.0	3921	0.544	1.86			
34	19.88	292.0	4219	0.762	2.61			
35	20.02	292.0		-	-			
36	20.13	257.5	70	0.0300	0.116			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.28	292.0	14120	3.50	12.0			
38	20.41	272.4	8316	2.52	9.26			
39	20.75	292.0	15889	3.05	10.4			
41	20.91	326.4	289	0.0859	0.263			
42	21.02	292.0	3628	0.849	2.91			
43	21.26	298.9	175	0.0394	0.132			
44	21.45	298.9	454	0.0780	0.261			
45	21.60	292.0	678	0.121	0.413			
46	21.78	292.0	7575	1.04	3.56			
47	21.91	292.0	14957	2.49	8.53			
48	22.02	293.5	21112	5.15	17.5			
49	22.32	324.7	1950	0.398	1.23			
50	22.63	292.0	13311	2.24	7.65			
51	22.86	326.4	4188	1.78	5.47			
52	22.97	326.4	421	0.0821	0.251			
53	23.13	326.4	7345	1.46	4.48			
54	23.32	326.4	3402	0.446	1.37			
55	23.60	326.4	154	0.0148	0.0455			
56	23.70	326.4	519	0.118	0.361			
57	23.91	326.4	3070	0.488	1.49			
58	24.08	326.4	5104	0.969	2.97			
59	24.24	326.4	2893	0.434	1.33			
60	24.36	360.9	2690	0.553	1.53			
61	24.49	326.4	8242	1.63	5.00			
62	24.77	360.9	-	-	-			
63	24.86	326.4	1992	0.333	1.02			
64	25.16	360.9	6931	1.32	3.66			
65	25.29	350.5	1925	0.226	0.646			
66	25.36	360.9	1474	0.448	1.24			
67	25.42	336.8	351	0.0797	0.237			
68	25.52	326.4	72	0.0135	0.0413			
69	25.61	337.5	16890	2.82	8.35			
70	25.73	360.9	-	-	-			
71	26.00	347.8	817	0.149	0.430			
72	26.22	336.8	167	0.0225	0.0668			
73	26.51	360.9	1663	0.294	0.814			
74	26.64	347.8	6827	0.918	2.64			
75	26.80	360.9	15087	2.10	5.81			
76	26.92	360.9	-	-	-			
77	27.34	360.9	4913	1.25	3.46			
78	27.40	395.3	6445	1.11	2.80			
79	27.61	360.9	83	0.0248	0.0687			
80	27.78	360.9	1942	0.178	0.494			
82	28.01	360.9	11907	1.88	5.20			
83	28.19	360.9	1205	0.174	0.482			
84	28.40	360.9	165	0.00634	0.0176			
85	28.74	395.3	2834	0.846	2.14			
87	29.04	395.3	433	0.122	0.310			
88	29.20	395.3	17161	2.74	6.94			
89	29.31	360.9	680	0.0626	0.174			
90	29.52	395.3	7199	1.20	3.04			
91	29.79	360.9	93	0.0167	0.0462			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.13	394.3	2842	0.350	0.888			
93	30.51	394.3	14444	2.39	6.07			
94	30.78	394.3	6563	1.22	3.10			
95	31.09	382.2	3012	0.550	1.44			
96	31.34	429.8	2179	0.0542	0.126			
98	31.54	395.3	237	0.0292	0.0738			
99	31.91	429.8	1694	0.323	0.752			
100	32.16	395.3	2027	0.430	1.09			
101	32.43	429.8	373	0.0838	0.195			
102	32.65	395.3	29503	4.33	11.0			
103	32.89	395.3	1719	0.293	0.742			
104	33.20	395.3	212	0.0449	0.114			
105	33.56	429.8	1951	0.332	0.773			
106	34.74	395.3	8796	0.876	2.22			
107	35.02	395.3	2350	0.292	0.738			
108	35.89	429.8	655	0.0890	0.207			
109	36.13	429.8	12400	3.15	7.34			
110	36.68	429.8	13063	3.05	7.11			
111	37.87	395.3	114	0.0154	0.0391			
112	39.46	429.8	3816	0.344	0.799			
113	39.98	464.2	849	0.217	0.467			
114	40.94	464.2	359	0.0466	0.100			
115	42.37	429.8	10961	1.22	2.83			
116	43.26	429.8	426	0.0755	0.176			
117	48.52	464.2	4002	0.489	1.05			
118	54.64	498.6	8	0.00150	0.00302			

Total Concentration = 133 ng/mL

Total Nanomoles = 0.476

Average Molecular Weight = 278.4

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.95 minutes

Internal Standard Peak Area = 95473.6

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 10:10:44  
 Lab Sample ID: CCCS0624A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-712-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	0.2509	2	7.258	10.709
3	12.82	1:0	002		3	-	-
4	12.93	1:0	003	0.2754	4	4.494	6.632
5	13.53	2:2	004 010	0.2882	2-2; 26	1.886	2.354
6	14.40	2:1	007 009	0.3067	24; 25	0.657	0.819
7	14.71	2:1	006	0.3133	2-3	1.014	1.266
8	14.90	2:1	005 008	0.3174	23; 2-4	8.540	10.658
9	15.46	2:0	014		35	-	-
10	15.54	3:3	019	0.3310	26-2	0.196	0.212
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.29	2:0	012 013	0.3470	34; 3-4	0.115	0.143
14	16.40	2:0 3:2	015 018	0.3493	4-4; 25-2	2.557	2.859
15	16.49	3:2	017	0.3512	24-2	2.433	2.631
16	16.79	3:2	024 027	0.3576	236; 26-3	0.180	0.194
17	17.05	3:2	016 032	0.3632	23-2; 26-4	2.589	2.800
19	17.51	3:1 4:4	023 034 054	0.3729	235; 35-2; 26-26	0.012	0.012
20	17.70	3:1	029	0.3770	245	0.032	0.034
21	17.82	3:1	026	0.3796	25-3	0.498	0.539
22	17.90	3:1	025	0.3813	24-3	0.214	0.232
23	18.10	3:1	031	0.3855	25-4	2.426	2.623
24	18.15	3:1 4:3	028 050	0.3866	24-4; 246-2	2.667	2.884
25	18.50	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.502	2.685
26	18.74	3:1 4:3	022 051	0.3991	23-4; 24-26	1.698	1.827
27	18.96	4:3	045	0.4038	236-2	0.567	0.541
28	19.10	3:0	036		35-3	-	-
29	19.24	4:3	046	0.4098	23-26	0.263	0.250
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.389	3.231
32	19.70	4:2	043 049	0.4196	235-2; 24-25	1.398	1.333
33	19.82	4:2	038 047	0.4222	345; 24-24	0.410	0.391
34	19.88	4:2	048 075	0.4234	245-2; 246-4	0.575	0.548
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035	0.4288	34-3	0.023	0.024
37	20.28	5:4 4:2	104 044	0.4319	246-26; 23-25	2.638	2.515
38	20.41	3:0 4:2	037 042 059	0.4347	34-4; 23-24; 236-3	1.902	1.944
39	20.75	4:2	041 064 071 072	0.4420	234-2; 236-4; 26-34; 25-35	2.297	2.190

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.91	5:4	068 096	0.4454	24-35; 236-26	0.065	0.055
42	21.02	4:2	040	0.4477	23-23	0.640	0.611
43	21.26	4:1 5:3	057 103	0.4528	235-3; 246-25	0.030	0.028
44	21.45	4:1 5:3	058 067 100	0.4569	23-35; 245-3; 246-24	0.059	0.055
45	21.60	4:1	063	0.4601	235-4	0.091	0.087
46	21.78	4:1 5:3	074 094 061	0.4639	245-4; 235-26; 2345	0.785	0.748
47	21.91	4:1	070	0.4667	25-34	1.878	1.791
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088	0.4690	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.882	3.683
49	22.32	4:1 5:3	055 091 121	0.4754	234-3; 236-24; 246-35	0.300	0.258
50	22.63	4:1	056 060	0.4820	23-34; 234-4	1.685	1.607
51	22.86	5:3 6:4	084 092 155	0.4869	236-23; 235-25; 246-246	1.346	1.148
52	22.97	5:3	089	0.4892	234-26	0.062	0.053
53	23.13	5:2	090 101	0.4927	235-24; 245-25	1.103	0.941
54	23.32	5:2	079 099 113	0.4967	34-35; 245-24; 236-35	0.336	0.287
55	23.60	5:2 6:4	119 150	0.5027	246-34; 236-246	0.011	0.010
56	23.70	5:2	078 083 112 108	0.5048	345-3; 235-23; 2356-3; 2346-3	0.089	0.076
57	23.91	5:2 6:4	097 152 086	0.5093	245-23; 2356-26; 2345-2	0.368	0.314
58	24.08	5:2	081 087 117 125 115 145	0.5129	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.731	0.623
59	24.24	5:2	116 085 111	0.5163	23456; 234-24; 235-35	0.327	0.279
60	24.36	6:4	120 136	0.5188	245-35; 236-236	0.417	0.322
61	24.49	5:2	077 110 148	0.5216	34-34; 236-34; 235-246	1.231	1.050
62	24.77	6:3	154		245-246	-	-
63	24.86	5:2	082	0.5295	234-23	0.251	0.214
64	25.16	6:3	151	0.5359	2356-25	0.996	0.769
65	25.29	5:1 6:3	124 135	0.5387	345-25; 235-236	0.171	0.136
66	25.36	6:3	144	0.5401	2346-25	0.338	0.260
67	25.42	5:1 6:3	107 109 147	0.5414	234-35; 235-34; 2356-24	0.060	0.050
68	25.52	5:1	123	0.5436	345-24	0.010	0.009
69	25.61	5:1 6:3	106 118 139 149	0.5455	2345-3; 245-34; 2346-24; 236-245	2.124	1.752
70	25.73	6:3	140		234-246	-	-
71	26.00	5:1 6:3	114 134 143	0.5538	2345-4; 2356-23; 2345-26	0.113	0.090
72	26.22	5:1 6:3	122 131 133 142	0.5585	345-23; 2346-23; 235-235; 23456-2	0.017	0.014
73	26.51	6:2	146 165 188	0.5646	235-245; 2356-35; 2356-246	0.222	0.171
74	26.64	5:1 6:3	105 132 161	0.5674	234-34; 234-236; 2346-35	0.693	0.554
75	26.80	6:2	153	0.5708	245-245	1.580	1.219
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.34	6:2	141	0.5823	2345-25	0.941	0.726
78	27.40	7:4	179	0.5836	2356-236	0.834	0.587
79	27.61	6:2	137	0.5881	2345-24	0.019	0.014
80	27.78	6:2 7:4	130 176	0.5917	234-235; 2346-236	0.135	0.104
82	28.01	6:2	138 163 164	0.5966	234-245; 2356-34; 236-345	1.415	1.092
83	28.19	6:2	158 160 186	0.6004	2346-34; 23456-3; 23456-26	0.131	0.101
84	28.40	6:2	126 129	0.6049	345-34; 2345-23	0.005	0.004
85	28.74	7:3	166 178	0.6121	23456-4; 2356-235	0.638	0.449
87	29.04	7:3	175 159	0.6185	2346-235; 2345-35	0.092	0.065
88	29.20	7:3	182 187	0.6219	2345-246; 2356-245	2.067	1.456
89	29.31	6:2	128 162	0.6243	234-234; 235-345	0.047	0.036
90	29.52	7:3	183	0.6288	2346-245	0.907	0.639
91	29.79	6:1	167	0.6345	245-345	0.013	0.010
92	30.13	7:3	185	0.6417	23456-25	0.264	0.186
93	30.51	7:3	174 181	0.6498	2345-236; 23456-24	1.806	1.275
94	30.78	7:3	177	0.6556	2356-234	0.922	0.651
95	31.09	6:1 7:3	156 171	0.6622	2345-34; 2346-234	0.415	0.302
96	31.34	8:4	157 202	0.6675	234-345; 2356-2356	0.041	0.026
98	31.54	7:3	173	0.6718	23456-23	0.022	0.015
99	31.91	8:4	201	0.6797	2346-2356	0.244	0.158
100	32.16	7:2	172 204	0.6850	2345-235; 23456-246	0.324	0.228
101	32.43	8:4	192 197	0.6907	23456-35; 2346-2346	0.063	0.041
102	32.65	7:2	180	0.6954	2345-245	3.268	2.302
103	32.89	7:2	193	0.7005	2356-345	0.221	0.156
104	33.20	7:2	191	0.7071	2346-345	0.034	0.024
105	33.56	8:4	200 169	0.7148	23456-236; 345-345	0.250	0.162
106	34.74	7:2	170	0.7399	2345-234	0.660	0.465

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.02	7:2	<b>190</b>	0.7459	23456-34	0.220	0.155
108	35.89	8:3	<b>198</b>	0.7644	23456-235	0.067	0.043
109	36.13	8:3	<b>199</b>	0.7695	2345-2356	2.378	1.541
110	36.68	8:3	<b>196 203</b>	0.7813	2345-2346; 23456-245	2.303	1.492
111	37.87	7:1	<b>189</b>	0.8066	2345-345	0.012	0.008
112	39.46	8:3	<b>195</b>	0.8405	23456-234	0.259	0.168
113	39.98	9:4	<b>208</b>	0.8515	23456-2356	0.164	0.098
114	40.94	9:4	<b>207</b>	0.8720	23456-2346	0.035	0.021
115	42.37	8:2	<b>194</b>	0.9024	2345-2345	0.919	0.595
116	43.26	8:2	<b>205</b>	0.9214	23456-345	0.057	0.037
117	48.52	9:3	<b>206</b>	1.033	23456-2345	0.369	0.221
118	54.64	10:4	<b>209</b>	1.164	23456-23456	0.001	0.001

Concentration = 133 ng/mL

Total Nanomoles = 0.476

Average Molecular Weight = 278.4

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

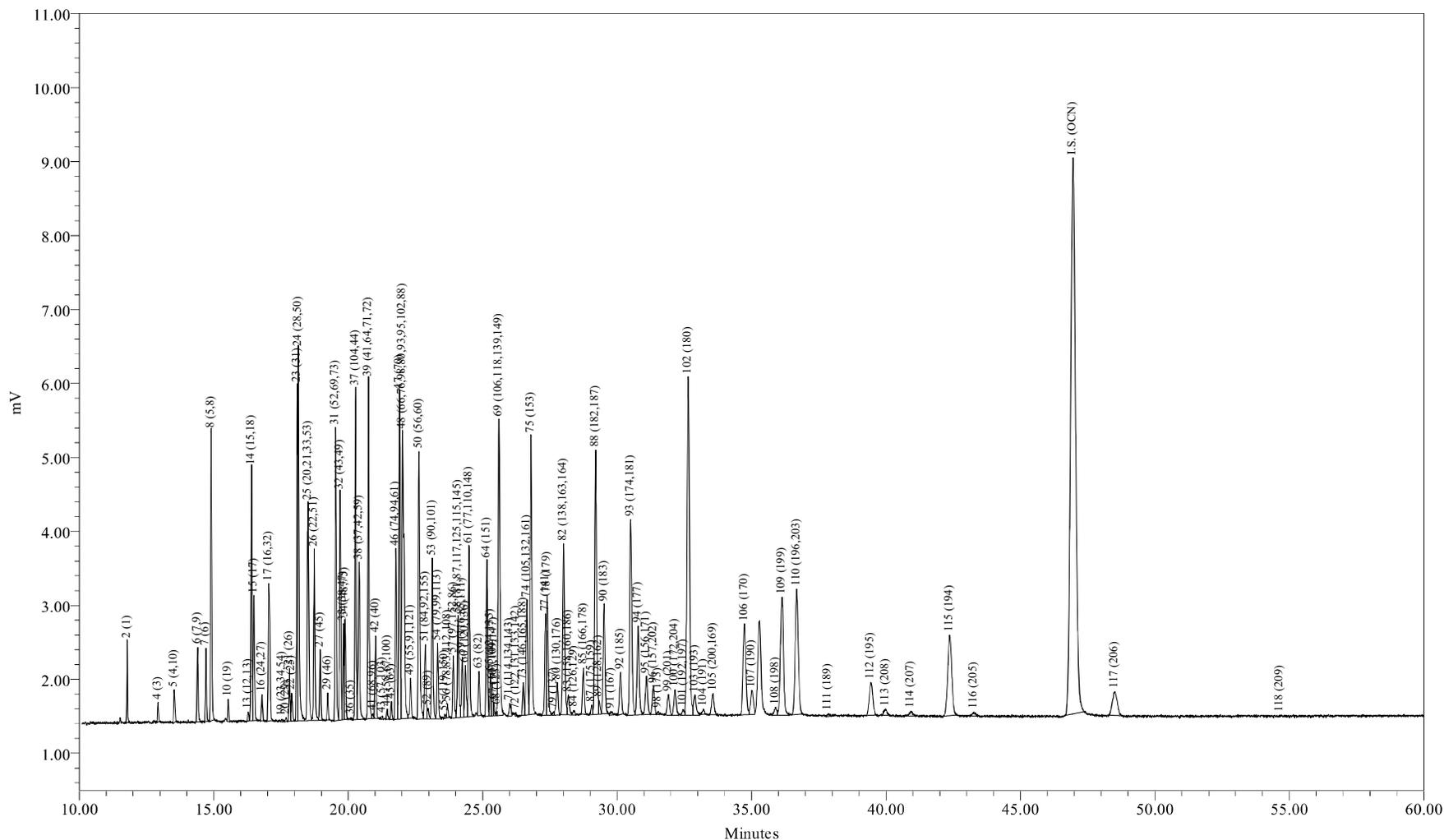
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Sample Name: CCCS0624B  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 06/24/2009 15:48:25 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-712-9

Sample Name: CCCS0624B

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 15:48:25  
 Lab Sample ID: CCCS0624B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-712-9

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 132 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.98	16.31
Di	12.61	15.76
Tri	18.35	19.95
Tetra	21.44	20.64
Penta	8.35	7.13
Hexa	7.97	6.24
Hepta	12.92	9.18
Octa	6.80	4.43
Nona	0.58	0.35
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	8.9153	38.6	31.5
A1242	23+24/31+28	6.8050	29.5	24.0
A1254SED	61/100	1.6460	7.13	
A1254BIO	69+75+82/149+153+138	6.9123		24.4
A1260	102/180	4.4388	19.2	15.7
A1268	115/194	1.2727	5.51	4.49

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 2.09

Total Cl / biphenyl Residue = 3.66

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 15:48:25  
 Lab Sample ID: CCCS0624B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-712-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.78	188.7	2057	8.92	47.2			
3	12.82	188.7		-	-			
4	12.93	188.7	592	5.60	29.7			
5	13.53	223.1	1328	2.41	10.8			
6	14.40	223.1	3064	0.836	3.75			
7	14.71	223.1	2430	1.36	6.10			
8	14.90	223.1	10667	11.1	49.6			
9	15.46	223.1		-	-			
10	15.54	257.5	782	0.261	1.01			
11	16.01	257.5		-	-			
12	16.08	223.1		-	-			
13	16.28	223.1	394	0.164	0.736			
14	16.40	249.0	9825	3.37	13.5			
15	16.49	257.5	4975	3.14	12.2			
16	16.79	257.5	1023	0.223	0.865			
17	17.05	257.5	8494	3.34	13.0			
19	17.54	267.9	88	0.0285	0.106			
20	17.70	257.5	153	0.0359	0.139			
21	17.82	257.5	2042	0.662	2.57			
22	17.90	257.5	1211	0.278	1.08			
23	18.10	257.5	12078	3.23	12.5			
24	18.15	257.5	16726	3.58	13.9			
25	18.50	259.5	11626	3.41	13.1			
26	18.73	258.7	7563	2.34	9.06			
27	18.96	292.0	2860	0.779	2.67			
28	19.10	257.5		-	-			
29	19.24	292.0	1039	0.319	1.09			
30	19.36	257.5		-	-			
31	19.53	292.0	12119	4.47	15.3			
32	19.70	292.0	9686	1.82	6.23			
33	19.82	292.0	3966	0.547	1.87			
34	19.88	292.0	4114	0.739	2.53			
35	20.02	292.0		-	-			
36	20.11	257.5	82	0.0351	0.136			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.27	292.0	14173	3.49	12.0			
38	20.40	272.4	8355	2.52	9.25			
39	20.75	292.0	15615	2.98	10.2			
41	20.92	326.4	261	0.0772	0.237			
42	21.02	292.0	3479	0.810	2.77			
43	21.27	298.9	120	0.0267	0.0895			
44	21.45	298.9	406	0.0693	0.232			
45	21.61	292.0	724	0.128	0.439			
46	21.78	292.0	7752	1.06	3.63			
47	21.91	292.0	15179	2.51	8.61			
48	22.02	293.5	21324	5.17	17.6			
49	22.32	324.7	1939	0.394	1.21			
50	22.63	292.0	13703	2.29	7.84			
51	22.86	326.4	4081	1.73	5.30			
52	22.97	326.4	515	0.0999	0.306			
53	23.13	326.4	7457	1.48	4.53			
54	23.32	326.4	3580	0.467	1.43			
55	23.60	326.4	185	0.0178	0.0545			
56	23.70	326.4	587	0.133	0.406			
57	23.91	326.4	3031	0.479	1.47			
58	24.08	326.4	5212	0.984	3.02			
59	24.24	326.4	2831	0.423	1.29			
60	24.36	360.9	2636	0.539	1.49			
61	24.49	326.4	8351	1.65	5.04			
62	24.77	360.9	-	-	-			
63	24.86	326.4	2020	0.336	1.03			
64	25.16	360.9	7060	1.34	3.71			
65	25.29	350.5	1909	0.223	0.637			
66	25.36	360.9	1566	0.473	1.31			
67	25.42	336.8	456	0.103	0.305			
68	25.53	326.4	142	0.0265	0.0811			
69	25.60	337.5	17336	2.88	8.52			
70	25.73	360.9	-	-	-			
71	26.01	347.8	842	0.153	0.440			
72	26.23	336.8	144	0.0192	0.0571			
73	26.51	360.9	1608	0.282	0.782			
74	26.65	347.8	6930	0.927	2.67			
75	26.80	360.9	15235	2.10	5.83			
76	26.92	360.9	-	-	-			
77	27.34	360.9	5241	1.33	3.67			
78	27.41	395.3	6737	1.15	2.91			
79	27.64	360.9	175	0.0520	0.144			
80	27.77	360.9	2131	0.195	0.540			
82	28.01	360.9	12311	1.93	5.35			
83	28.19	360.9	1266	0.182	0.504			
84	28.40	360.9	276	0.0105	0.0291			
85	28.75	395.3	2801	0.832	2.11			
87	29.05	395.3	535	0.151	0.381			
88	29.20	395.3	17667	2.81	7.10			
89	29.31	360.9	710	0.0651	0.180			
90	29.51	395.3	7396	1.23	3.11			
91	29.77	360.9	236	0.0413	0.115			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.13	394.3	2923	0.358	0.908			
93	30.51	394.3	14869	2.45	6.22			
94	30.78	394.3	6822	1.26	3.21			
95	31.09	382.2	3100	0.563	1.47			
96	31.35	429.8	2098	0.0519	0.121			
98	31.53	395.3	146	0.0179	0.0452			
99	31.91	429.8	1639	0.311	0.723			
100	32.16	395.3	2060	0.435	1.10			
101	32.48	429.8	438	0.0978	0.227			
102	32.64	395.3	30371	4.44	11.2			
103	32.90	395.3	1869	0.317	0.802			
104	33.21	395.3	358	0.0748	0.189			
105	33.57	429.8	1843	0.312	0.726			
106	34.73	395.3	8949	0.886	2.24			
107	35.01	395.3	2319	0.286	0.724			
108	35.90	429.8	711	0.0962	0.224			
109	36.13	429.8	12904	3.26	7.60			
110	36.68	429.8	13470	3.13	7.29			
111	37.84	395.3	252	0.0340	0.0861			
112	39.43	429.8	4090	0.366	0.852			
113	39.98	464.2	713	0.181	0.391			
114	40.92	464.2	616	0.0798	0.172			
115	42.37	429.8	11509	1.27	2.96			
116	43.27	429.8	454	0.0801	0.186			
117	48.52	464.2	4182	0.509	1.10			
118	54.64	498.6	10	0.00184	0.00369			

Total Concentration = 132 ng/mL

Total Nanomoles = 0.472

Average Molecular Weight = 280.3

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.95 minutes

Internal Standard Peak Area = 95986.8

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 15:48:25  
 Lab Sample ID: CCCS0624B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-712-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	0.2509	2	6.744	10.019
3	12.82	1:0	002		3	-	-
4	12.93	1:0	003	0.2754	4	4.234	6.291
5	13.53	2:2	004 010	0.2882	2-2; 26	1.825	2.293
6	14.40	2:1	007 009	0.3067	24; 25	0.632	0.794
7	14.71	2:1	006	0.3133	2-3	1.030	1.294
8	14.90	2:1	005 008	0.3174	23; 2-4	8.363	10.509
9	15.46	2:0	014		35	-	-
10	15.54	3:3	019	0.3310	26-2	0.197	0.215
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.28	2:0	012 013	0.3468	34; 3-4	0.124	0.156
14	16.40	2:0 3:2	015 018	0.3493	4-4; 25-2	2.552	2.873
15	16.49	3:2	017	0.3512	24-2	2.376	2.587
16	16.79	3:2	024 027	0.3576	236; 26-3	0.168	0.183
17	17.05	3:2	016 032	0.3632	23-2; 26-4	2.529	2.753
19	17.54	3:1 4:4	023 034 054	0.3736	235; 35-2; 26-26	0.022	0.023
20	17.70	3:1	029	0.3770	245	0.027	0.030
21	17.82	3:1	026	0.3796	25-3	0.501	0.546
22	17.90	3:1	025	0.3813	24-3	0.210	0.229
23	18.10	3:1	031	0.3855	25-4	2.441	2.657
24	18.15	3:1 4:3	028 050	0.3866	24-4; 246-2	2.707	2.947
25	18.50	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.576	2.783
26	18.73	3:1 4:3	022 051	0.3989	23-4; 24-26	1.772	1.921
27	18.96	4:3	045	0.4038	236-2	0.589	0.566
28	19.10	3:0	036		35-3	-	-
29	19.24	4:3	046	0.4098	23-26	0.241	0.231
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.379	3.244
32	19.70	4:2	043 049	0.4196	235-2; 24-25	1.377	1.322
33	19.82	4:2	038 047	0.4222	345; 24-24	0.414	0.397
34	19.88	4:2	048 075	0.4234	245-2; 246-4	0.559	0.537
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.11	3:0	035	0.4283	34-3	0.027	0.029
37	20.27	5:4 4:2	104 044	0.4317	246-26; 23-25	2.642	2.536
38	20.40	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.907	1.963
39	20.75	4:2	041 064 071 072	0.4420	234-2; 236-4; 26-34; 25-35	2.252	2.162

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.92	5:4	068 096	0.4456	24-35; 236-26	0.058	0.050
42	21.02	4:2	040	0.4477	23-23	0.613	0.588
43	21.27	4:1 5:3	057 103	0.4530	235-3; 246-25	0.020	0.019
44	21.45	4:1 5:3	058 067 100	0.4569	23-35; 245-3; 246-24	0.052	0.049
45	21.61	4:1	063	0.4603	235-4	0.097	0.093
46	21.78	4:1 5:3	074 094 061	0.4639	245-4; 235-26; 2345	0.802	0.770
47	21.91	4:1	070	0.4667	25-34	1.902	1.826
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088	0.4690	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.913	3.737
49	22.32	4:1 5:3	055 091 121	0.4754	234-3; 236-24; 246-35	0.298	0.257
50	22.63	4:1	056 060	0.4820	23-34; 234-4	1.731	1.662
51	22.86	5:3 6:4	084 092 155	0.4869	236-23; 235-25; 246-246	1.309	1.124
52	22.97	5:3	089	0.4892	234-26	0.076	0.065
53	23.13	5:2	090 101	0.4927	235-24; 245-25	1.117	0.960
54	23.32	5:2	079 099 113	0.4967	34-35; 245-24; 236-35	0.353	0.303
55	23.60	5:2 6:4	119 150	0.5027	246-34; 236-246	0.013	0.012
56	23.70	5:2	078 083 112 108	0.5048	345-3; 235-23; 2356-3; 2346-3	0.100	0.086
57	23.91	5:2 6:4	097 152 086	0.5093	245-23; 2356-26; 2345-2	0.362	0.311
58	24.08	5:2	081 087 117 125 115 145	0.5129	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.744	0.639
59	24.24	5:2	116 085 111	0.5163	23456; 234-24; 235-35	0.320	0.275
60	24.36	6:4	120 136	0.5188	245-35; 236-236	0.408	0.317
61	24.49	5:2	077 110 148	0.5216	34-34; 236-34; 235-246	1.245	1.069
62	24.77	6:3	154		245-246	-	-
63	24.86	5:2	082	0.5295	234-23	0.254	0.218
64	25.16	6:3	151	0.5359	2356-25	1.013	0.787
65	25.29	5:1 6:3	124 135	0.5387	345-25; 235-236	0.169	0.135
66	25.36	6:3	144	0.5401	2346-25	0.358	0.278
67	25.42	5:1 6:3	107 109 147	0.5414	234-35; 235-34; 2356-24	0.078	0.065
68	25.53	5:1	123	0.5438	345-24	0.020	0.017
69	25.60	5:1 6:3	106 118 139 149	0.5453	2345-3; 245-34; 2346-24; 236-245	2.176	1.807
70	25.73	6:3	140		234-246	-	-
71	26.01	5:1 6:3	114 134 143	0.5540	2345-4; 2356-23; 2345-26	0.116	0.093
72	26.23	5:1 6:3	122 131 133 142	0.5587	345-23; 2346-23; 235-235; 23456-2	0.015	0.012
73	26.51	6:2	146 165 188	0.5646	235-245; 2356-35; 2356-246	0.214	0.166
74	26.65	5:1 6:3	105 132 161	0.5676	234-34; 234-236; 2346-35	0.702	0.565
75	26.80	6:2	153	0.5708	245-245	1.592	1.237
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.34	6:2	141	0.5823	2345-25	1.002	0.779
78	27.41	7:4	179	0.5838	2356-236	0.869	0.617
79	27.64	6:2	137	0.5887	2345-24	0.039	0.031
80	27.77	6:2 7:4	130 176	0.5915	234-235; 2346-236	0.147	0.114
82	28.01	6:2	138 163 164	0.5966	234-245; 2356-34; 236-345	1.461	1.135
83	28.19	6:2	158 160 186	0.6004	2346-34; 23456-3; 23456-26	0.137	0.107
84	28.40	6:2	126 129	0.6049	345-34; 2345-23	0.008	0.006
85	28.75	7:3	166 178	0.6124	23456-4; 2356-235	0.629	0.446
87	29.05	7:3	175 159	0.6187	2346-235; 2345-35	0.114	0.081
88	29.20	7:3	182 187	0.6219	2345-246; 2356-245	2.124	1.507
89	29.31	6:2	128 162	0.6243	234-234; 235-345	0.049	0.038
90	29.51	7:3	183	0.6285	2346-245	0.930	0.660
91	29.77	6:1	167	0.6341	245-345	0.031	0.024
92	30.13	7:3	185	0.6417	23456-25	0.271	0.193
93	30.51	7:3	174 181	0.6498	2345-236; 23456-24	1.855	1.319
94	30.78	7:3	177	0.6556	2356-234	0.957	0.680
95	31.09	6:1 7:3	156 171	0.6622	2345-34; 2346-234	0.426	0.313
96	31.35	8:4	157 202	0.6677	234-345; 2356-2356	0.039	0.026
98	31.53	7:3	173	0.6716	23456-23	0.014	0.010
99	31.91	8:4	201	0.6797	2346-2356	0.235	0.153
100	32.16	7:2	172 204	0.6850	2345-235; 23456-246	0.329	0.233
101	32.48	8:4	192 197	0.6918	23456-35; 2346-2346	0.074	0.048
102	32.64	7:2	180	0.6952	2345-245	3.358	2.381
103	32.90	7:2	193	0.7007	2356-345	0.240	0.170
104	33.21	7:2	191	0.7073	2346-345	0.057	0.040
105	33.57	8:4	200 169	0.7150	23456-236; 345-345	0.236	0.154
106	34.73	7:2	170	0.7397	2345-234	0.670	0.475

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.01	7:2	<b>190</b>	0.7457	23456-34	0.217	0.154
108	35.90	8:3	<b>198</b>	0.7646	23456-235	0.073	0.047
109	36.13	8:3	<b>199</b>	0.7695	2345-2356	2.470	1.611
110	36.68	8:3	<b>196 203</b>	0.7813	2345-2346; 23456-245	2.370	1.546
111	37.84	7:1	<b>189</b>	0.8060	2345-345	0.026	0.018
112	39.43	8:3	<b>195</b>	0.8398	23456-234	0.277	0.181
113	39.98	9:4	<b>208</b>	0.8515	23456-2356	0.137	0.083
114	40.92	9:4	<b>207</b>	0.8716	23456-2346	0.060	0.036
115	42.37	8:2	<b>194</b>	0.9024	2345-2345	0.963	0.628
116	43.27	8:2	<b>205</b>	0.9216	23456-345	0.061	0.040
117	48.52	9:3	<b>206</b>	1.033	23456-2345	0.385	0.232
118	54.64	10:4	<b>209</b>	1.164	23456-23456	0.001	0.001

Concentration = 132 ng/mL

Total Nanomoles = 0.472

Average Molecular Weight = 280.3

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

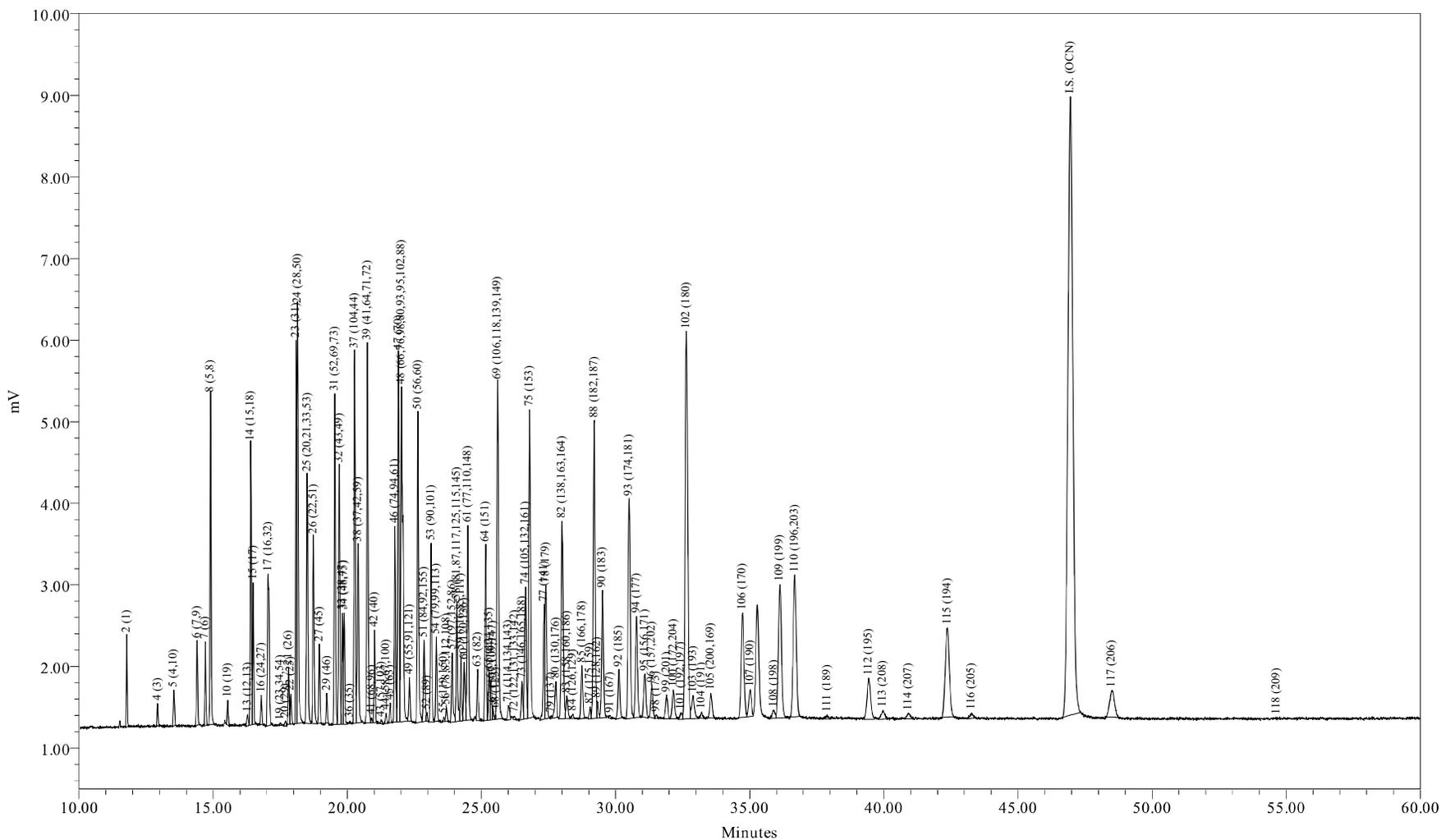
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: CCCS0624D  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 6/24/2009 11:11:55 PM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_062209  
 LIMS File ID: GC16-712-15

Sample Name: CCCS0624D

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 23:11:55  
 Lab Sample ID: CCCS0624D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-712-15

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 132 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.22	16.66
Di	12.59	15.74
Tri	18.04	19.62
Tetra	21.34	20.54
Penta	8.21	7.01
Hexa	8.00	6.26
Hepta	13.09	9.29
Octa	6.91	4.50
Nona	0.62	0.37
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	9.0500	39.1	31.8
A1242	23+24/31+28	6.7134	29.0	23.6
A1254SED	61/100	1.6418	7.09	
A1254BIO	69+75+82/149+153+138	6.9635		24.4
A1260	102/180	4.4954	19.4	15.8
A1268	115/194	1.2682	5.47	4.45

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 2.10

Total Cl / biphenyl Residue = 3.66

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 23:11:55  
 Lab Sample ID: CCCS0624D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-712-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.78	188.7	2118	9.05	48.0			
3	12.82	188.7		-	-			
4	12.93	188.7	618	5.76	30.5			
5	13.53	223.1	1316	2.36	10.6			
6	14.40	223.1	3101	0.834	3.74			
7	14.71	223.1	2482	1.37	6.14			
8	14.90	223.1	10778	11.0	49.4			
9	15.46	223.1		-	-			
10	15.54	257.5	756	0.248	0.965			
11	16.01	257.5		-	-			
12	16.08	223.1		-	-			
13	16.29	223.1	525	0.215	0.965			
14	16.40	249.0	9853	3.34	13.4			
15	16.49	257.5	4932	3.07	11.9			
16	16.79	257.5	1006	0.216	0.838			
17	17.05	257.5	8614	3.34	13.0			
19	17.50	267.9	82	0.0260	0.0971			
20	17.69	257.5	187	0.0432	0.168			
21	17.81	257.5	1967	0.629	2.44			
22	17.90	257.5	1131	0.256	0.995			
23	18.10	257.5	12494	3.29	12.8			
24	18.15	257.5	16229	3.42	13.3			
25	18.50	259.5	11411	3.30	12.7			
26	18.73	258.7	7465	2.28	8.81			
27	18.96	292.0	2756	0.740	2.53			
28	19.10	257.5		-	-			
29	19.23	292.0	957	0.290	0.992			
30	19.36	257.5		-	-			
31	19.53	292.0	12123	4.41	15.1			
32	19.70	292.0	9826	1.82	6.23			
33	19.82	292.0	4033	0.548	1.88			
34	19.88	292.0	4224	0.748	2.56			
35	20.02	292.0		-	-			
36	20.10	257.5	110	0.0462	0.180			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.27	292.0	14287	3.47	11.9			
38	20.40	272.4	8295	2.47	9.06			
39	20.75	292.0	15835	2.98	10.2			
41	20.91	326.4	170	0.0496	0.152			
42	21.02	292.0	3482	0.800	2.74			
43	21.26	298.9	148	0.0327	0.109			
44	21.44	298.9	460	0.0774	0.259			
45	21.60	292.0	670	0.117	0.401			
46	21.77	292.0	7945	1.07	3.67			
47	21.90	292.0	15519	2.54	8.68			
48	22.02	293.5	21563	5.16	17.6			
49	22.32	324.7	1814	0.364	1.12			
50	22.63	292.0	13845	2.28	7.81			
51	22.86	326.4	4032	1.69	5.16			
52	22.97	326.4	280	0.0535	0.164			
53	23.13	326.4	7395	1.44	4.42			
54	23.32	326.4	3394	0.436	1.34			
55	23.59	326.4	134	0.0127	0.0389			
56	23.70	326.4	557	0.124	0.380			
57	23.91	326.4	3106	0.484	1.48			
58	24.08	326.4	5244	0.976	2.99			
59	24.23	326.4	2839	0.418	1.28			
60	24.36	360.9	2585	0.521	1.44			
61	24.49	326.4	8449	1.64	5.03			
62	24.77	360.9	-	-	-			
63	24.86	326.4	2167	0.356	1.09			
64	25.16	360.9	7176	1.34	3.72			
65	25.29	350.5	1990	0.230	0.655			
66	25.35	360.9	1570	0.468	1.30			
67	25.42	336.8	458	0.102	0.302			
68	25.53	326.4	118	0.0217	0.0665			
69	25.60	337.5	17636	2.89	8.55			
70	25.73	360.9	-	-	-			
71	26.00	347.8	827	0.148	0.426			
72	26.23	336.8	169	0.0222	0.0660			
73	26.51	360.9	1709	0.296	0.820			
74	26.65	347.8	7138	0.942	2.71			
75	26.80	360.9	15608	2.13	5.89			
76	26.92	360.9	-	-	-			
77	27.34	360.9	5421	1.35	3.74			
78	27.41	395.3	6749	1.14	2.87			
79	27.59	360.9	91	0.0266	0.0736			
80	27.77	360.9	2029	0.183	0.507			
82	28.00	360.9	12621	1.95	5.41			
83	28.18	360.9	1309	0.185	0.513			
84	28.41	360.9	230	0.00863	0.0239			
85	28.74	395.3	2951	0.864	2.19			
87	29.06	395.3	559	0.155	0.392			
88	29.20	395.3	18116	2.84	7.18			
89	29.31	360.9	781	0.0705	0.195			
90	29.51	395.3	7662	1.26	3.18			
91	29.80	360.9	145	0.0251	0.0697			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.13	394.3	3064	0.370	0.938			
93	30.51	394.3	15147	2.46	6.25			
94	30.78	394.3	6817	1.25	3.16			
95	31.09	382.2	3022	0.542	1.42			
96	31.35	429.8	2119	0.0517	0.120			
98	31.52	395.3	195	0.0235	0.0594			
99	31.90	429.8	1626	0.304	0.707			
100	32.16	395.3	2127	0.443	1.12			
101	32.44	429.8	480	0.106	0.246			
102	32.64	395.3	31193	4.50	11.4			
103	32.89	395.3	2095	0.350	0.886			
104	33.21	395.3	383	0.0787	0.199			
105	33.55	429.8	1867	0.312	0.725			
106	34.73	395.3	9159	0.894	2.26			
107	35.01	395.3	2286	0.278	0.704			
108	35.90	429.8	737	0.0983	0.229			
109	36.12	429.8	13172	3.29	7.64			
110	36.68	429.8	13918	3.19	7.43			
111	37.89	395.3	342	0.0455	0.115			
112	39.44	429.8	4660	0.411	0.956			
113	39.96	464.2	977	0.244	0.526			
114	40.91	464.2	597	0.0761	0.164			
115	42.37	429.8	11632	1.27	2.95			
116	43.27	429.8	495	0.0862	0.201			
117	48.50	464.2	4122	0.494	1.07			
118	54.64	498.6	13	0.00237	0.00475			

Total Concentration = 132 ng/mL

Total Nanomoles = 0.471

Average Molecular Weight = 280.3

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.95 minutes

Internal Standard Peak Area = 97355.3

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 23:11:55  
 Lab Sample ID: CCCS0624D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-712-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	0.2509	2	6.856	10.186
3	12.82	1:0	002		3	-	-
4	12.93	1:0	003	0.2754	4	4.360	6.478
5	13.53	2:2	004 010	0.2882	2-2; 26	1.786	2.244
6	14.40	2:1	007 009	0.3067	24; 25	0.632	0.794
7	14.71	2:1	006	0.3133	2-3	1.038	1.305
8	14.90	2:1	005 008	0.3174	23; 2-4	8.344	10.484
9	15.46	2:0	014		35	-	-
10	15.54	3:3	019	0.3310	26-2	0.188	0.205
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.29	2:0	012 013	0.3470	34; 3-4	0.163	0.205
14	16.40	2:0 3:2	015 018	0.3493	4-4; 25-2	2.527	2.845
15	16.49	3:2	017	0.3512	24-2	2.326	2.532
16	16.79	3:2	024 027	0.3576	236; 26-3	0.163	0.178
17	17.05	3:2	016 032	0.3632	23-2; 26-4	2.533	2.757
19	17.50	3:1 4:4	023 034 054	0.3727	235; 35-2; 26-26	0.020	0.021
20	17.69	3:1	029	0.3768	245	0.033	0.036
21	17.81	3:1	026	0.3793	25-3	0.477	0.519
22	17.90	3:1	025	0.3813	24-3	0.194	0.211
23	18.10	3:1	031	0.3855	25-4	2.493	2.715
24	18.15	3:1 4:3	028 050	0.3866	24-4; 246-2	2.593	2.823
25	18.50	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.497	2.697
26	18.73	3:1 4:3	022 051	0.3989	23-4; 24-26	1.728	1.872
27	18.96	4:3	045	0.4038	236-2	0.561	0.538
28	19.10	3:0	036		35-3	-	-
29	19.23	4:3	046	0.4096	23-26	0.219	0.211
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.337	3.204
32	19.70	4:2	043 049	0.4196	235-2; 24-25	1.379	1.324
33	19.82	4:2	038 047	0.4222	345; 24-24	0.415	0.399
34	19.88	4:2	048 075	0.4234	245-2; 246-4	0.567	0.544
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.10	3:0	035	0.4281	34-3	0.035	0.038
37	20.27	5:4 4:2	104 044	0.4317	246-26; 23-25	2.630	2.524
38	20.40	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.869	1.924
39	20.75	4:2	041 064 071 072	0.4420	234-2; 236-4; 26-34; 25-35	2.255	2.165

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.91	5:4	068 096	0.4454	24-35; 236-26	0.038	0.032
42	21.02	4:2	040	0.4477	23-23	0.606	0.582
43	21.26	4:1 5:3	057 103	0.4528	235-3; 246-25	0.025	0.023
44	21.44	4:1 5:3	058 067 100	0.4567	23-35; 245-3; 246-24	0.059	0.055
45	21.60	4:1	063	0.4601	235-4	0.089	0.085
46	21.77	4:1 5:3	074 094 061	0.4637	245-4; 235-26; 2345	0.811	0.779
47	21.90	4:1	070	0.4665	25-34	1.921	1.844
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088	0.4690	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.907	3.731
49	22.32	4:1 5:3	055 091 121	0.4754	234-3; 236-24; 246-35	0.276	0.238
50	22.63	4:1	056 060	0.4820	23-34; 234-4	1.727	1.658
51	22.86	5:3 6:4	084 092 155	0.4869	236-23; 235-25; 246-246	1.277	1.097
52	22.97	5:3	089	0.4892	234-26	0.041	0.035
53	23.13	5:2	090 101	0.4927	235-24; 245-25	1.094	0.940
54	23.32	5:2	079 099 113	0.4967	34-35; 245-24; 236-35	0.330	0.284
55	23.59	5:2 6:4	119 150	0.5024	246-34; 236-246	0.010	0.008
56	23.70	5:2	078 083 112 108	0.5048	345-3; 235-23; 2356-3; 2346-3	0.094	0.081
57	23.91	5:2 6:4	097 152 086	0.5093	245-23; 2356-26; 2345-2	0.367	0.315
58	24.08	5:2	081 087 117 125 115 145	0.5129	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.740	0.635
59	24.23	5:2	116 085 111	0.5161	23456; 234-24; 235-35	0.317	0.272
60	24.36	6:4	120 136	0.5188	245-35; 236-236	0.395	0.307
61	24.49	5:2	077 110 148	0.5216	34-34; 236-34; 235-246	1.244	1.068
62	24.77	6:3	154		245-246	-	-
63	24.86	5:2	082	0.5295	234-23	0.269	0.231
64	25.16	6:3	151	0.5359	2356-25	1.016	0.790
65	25.29	5:1 6:3	124 135	0.5387	345-25; 235-236	0.174	0.139
66	25.35	6:3	144	0.5399	2346-25	0.354	0.275
67	25.42	5:1 6:3	107 109 147	0.5414	234-35; 235-34; 2356-24	0.077	0.064
68	25.53	5:1	123	0.5438	345-24	0.016	0.014
69	25.60	5:1 6:3	106 118 139 149	0.5453	2345-3; 245-34; 2346-24; 236-245	2.186	1.816
70	25.73	6:3	140		234-246	-	-
71	26.00	5:1 6:3	114 134 143	0.5538	2345-4; 2356-23; 2345-26	0.112	0.091
72	26.23	5:1 6:3	122 131 133 142	0.5587	345-23; 2346-23; 235-235; 23456-2	0.017	0.014
73	26.51	6:2	146 165 188	0.5646	235-245; 2356-35; 2356-246	0.224	0.174
74	26.65	5:1 6:3	105 132 161	0.5676	234-34; 234-236; 2346-35	0.714	0.575
75	26.80	6:2	153	0.5708	245-245	1.611	1.251
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.34	6:2	141	0.5823	2345-25	1.024	0.795
78	27.41	7:4	179	0.5838	2356-236	0.860	0.610
79	27.59	6:2	137	0.5876	2345-24	0.020	0.016
80	27.77	6:2 7:4	130 176	0.5915	234-235; 2346-236	0.138	0.108
82	28.00	6:2	138 163 164	0.5964	234-245; 2356-34; 236-345	1.479	1.149
83	28.18	6:2	158 160 186	0.6002	2346-34; 23456-3; 23456-26	0.140	0.109
84	28.41	6:2	126 129	0.6051	345-34; 2345-23	0.007	0.005
85	28.74	7:3	166 178	0.6121	23456-4; 2356-235	0.655	0.464
87	29.06	7:3	175 159	0.6190	2346-235; 2345-35	0.117	0.083
88	29.20	7:3	182 187	0.6219	2345-246; 2356-245	2.151	1.526
89	29.31	6:2	128 162	0.6243	234-234; 235-345	0.053	0.041
90	29.51	7:3	183	0.6285	2346-245	0.951	0.675
91	29.80	6:1	167	0.6347	245-345	0.019	0.015
92	30.13	7:3	185	0.6417	23456-25	0.280	0.199
93	30.51	7:3	174 181	0.6498	2345-236; 23456-24	1.866	1.327
94	30.78	7:3	177	0.6556	2356-234	0.944	0.671
95	31.09	6:1 7:3	156 171	0.6622	2345-34; 2346-234	0.410	0.301
96	31.35	8:4	157 202	0.6677	234-345; 2356-2356	0.039	0.026
98	31.52	7:3	173	0.6714	23456-23	0.018	0.013
99	31.90	8:4	201	0.6794	2346-2356	0.230	0.150
100	32.16	7:2	172 204	0.6850	2345-235; 23456-246	0.335	0.238
101	32.44	8:4	192 197	0.6909	23456-35; 2346-2346	0.080	0.052
102	32.64	7:2	180	0.6952	2345-245	3.406	2.415
103	32.89	7:2	193	0.7005	2356-345	0.265	0.188
104	33.21	7:2	191	0.7073	2346-345	0.060	0.042
105	33.55	8:4	200 169	0.7146	23456-236; 345-345	0.236	0.154
106	34.73	7:2	170	0.7397	2345-234	0.677	0.480

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.01	7:2	<b>190</b>	0.7457	23456-34	0.211	0.150
108	35.90	8:3	<b>198</b>	0.7646	23456-235	0.074	0.049
109	36.12	8:3	<b>199</b>	0.7693	2345-2356	2.489	1.623
110	36.68	8:3	<b>196 203</b>	0.7813	2345-2346; 23456-245	2.418	1.577
111	37.89	7:1	<b>189</b>	0.8070	2345-345	0.034	0.024
112	39.44	8:3	<b>195</b>	0.8400	23456-234	0.311	0.203
113	39.96	9:4	<b>208</b>	0.8511	23456-2356	0.185	0.112
114	40.91	9:4	<b>207</b>	0.8714	23456-2346	0.058	0.035
115	42.37	8:2	<b>194</b>	0.9024	2345-2345	0.961	0.627
116	43.27	8:2	<b>205</b>	0.9216	23456-345	0.065	0.043
117	48.50	9:3	<b>206</b>	1.033	23456-2345	0.375	0.226
118	54.64	10:4	<b>209</b>	1.164	23456-23456	0.002	0.001

Concentration = 132 ng/mL

Total Nanomoles = 0.471

Average Molecular Weight = 280.3

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

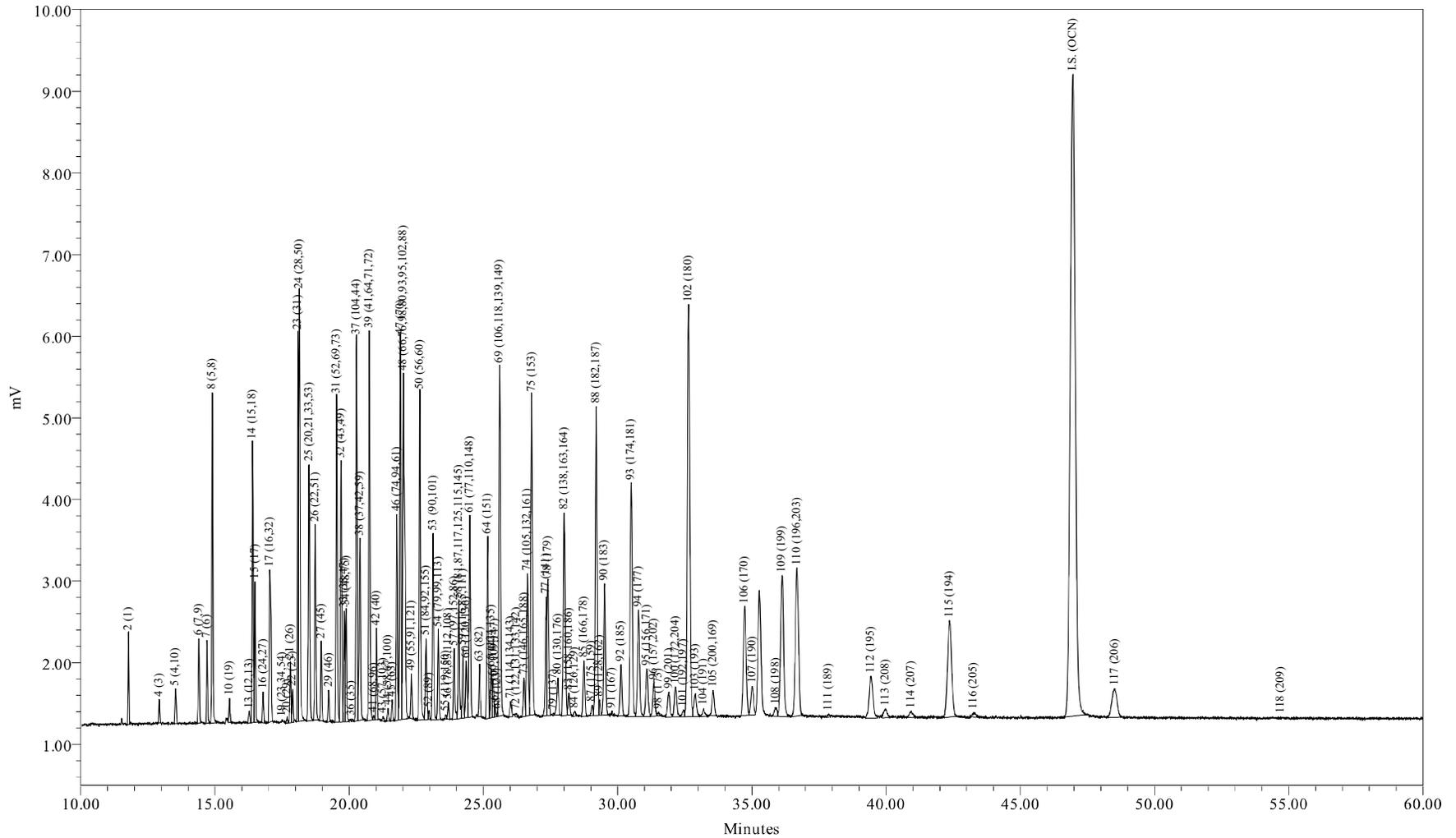
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Sample Name: CCCS0625A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 6/25/2009 7:40:14 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-713-6

Sample Name: CCCS0625A

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 07:40:14  
 Lab Sample ID: CCCS0625A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-713-6

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 127 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.87	16.23
Di	12.39	15.57
Tri	17.79	19.45
Tetra	21.28	20.59
Penta	8.21	7.05
Hexa	8.05	6.34
Hepta	13.43	9.59
Octa	7.29	4.78
Nona	0.68	0.41
Deca	0.01	0.01

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	8.4711	38.1	30.9
A1242	23+24/31+28	6.4184	28.9	23.4
A1254SED	61/100	1.5788	7.10	
A1254BIO	69+75+82/149+153+138	6.7365		24.6
A1260	102/180	4.4611	20.1	16.3
A1268	115/194	1.3102	5.89	4.78

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.13

Total Cl / biphenyl Residue = 3.70

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 07:40:14  
 Lab Sample ID: CCCS0625A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-713-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.78	188.7	2072	8.47	44.9			
3	12.82	188.7		-	-			
4	12.92	188.7	599	5.34	28.3			
5	13.53	223.1	1295	2.22	9.94			
6	14.40	223.1	3035	0.781	3.50			
7	14.71	223.1	2450	1.29	5.80			
8	14.90	223.1	10702	10.5	46.9			
9	15.46	223.1		-	-			
10	15.54	257.5	749	0.235	0.914			
11	16.01	257.5		-	-			
12	16.08	223.1		-	-			
13	16.28	223.1	527	0.207	0.926			
14	16.40	249.0	9862	3.19	12.8			
15	16.49	257.5	4796	2.86	11.1			
16	16.79	257.5	1041	0.214	0.829			
17	17.04	257.5	8346	3.10	12.0			
19	17.50	267.9	34	0.0105	0.0391			
20	17.69	257.5	196	0.0432	0.168			
21	17.82	257.5	2114	0.647	2.51			
22	17.90	257.5	1178	0.255	0.991			
23	18.10	257.5	12581	3.17	12.3			
24	18.15	257.5	16115	3.25	12.6			
25	18.50	259.5	11409	3.15	12.1			
26	18.73	258.7	7314	2.14	8.26			
27	18.96	292.0	2728	0.700	2.40			
28	19.10	257.5		-	-			
29	19.24	292.0	1089	0.315	1.08			
30	19.36	257.5		-	-			
31	19.53	292.0	12065	4.19	14.4			
32	19.70	292.0	9831	1.74	5.96			
33	19.82	292.0	4001	0.520	1.78			
34	19.88	292.0	4195	0.710	2.43			
35	20.02	292.0		-	-			
36	20.09	257.5	108	0.0431	0.167			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.27	292.0	14174	3.29	11.3			
38	20.40	272.4	8346	2.37	8.71			
39	20.75	292.0	15776	2.84	9.71			
41	20.91	326.4	146	0.0406	0.124			
42	21.02	292.0	3455	0.759	2.60			
43	21.26	298.9	193	0.0406	0.136			
44	21.45	298.9	542	0.0873	0.292			
45	21.60	292.0	766	0.128	0.438			
46	21.77	292.0	8169	1.05	3.61			
47	21.90	292.0	15929	2.49	8.52			
48	22.02	293.5	21417	4.90	16.7			
49	22.32	324.7	1790	0.343	1.06			
50	22.63	292.0	14198	2.24	7.66			
51	22.87	326.4	4076	1.63	4.99			
52	22.97	326.4	316	0.0577	0.177			
53	23.13	326.4	7561	1.41	4.33			
54	23.32	326.4	3541	0.435	1.33			
55	23.60	326.4	138	0.0126	0.0385			
56	23.70	326.4	616	0.131	0.402			
57	23.91	326.4	3083	0.459	1.41			
58	24.08	326.4	5309	0.945	2.90			
59	24.24	326.4	2801	0.394	1.21			
60	24.36	360.9	2535	0.489	1.36			
61	24.49	326.4	8496	1.58	4.84			
62	24.77	360.9	-	-	-			
63	24.86	326.4	2057	0.323	0.988			
64	25.16	360.9	7314	1.31	3.62			
65	25.29	350.5	1991	0.220	0.627			
66	25.36	360.9	1646	0.469	1.30			
67	25.42	336.8	364	0.0777	0.231			
68	25.52	326.4	111	0.0194	0.0595			
69	25.60	337.5	17723	2.77	8.22			
70	25.73	360.9	-	-	-			
71	26.01	347.8	804	0.138	0.397			
72	26.22	336.8	153	0.0193	0.0574			
73	26.51	360.9	1752	0.290	0.805			
74	26.64	347.8	7367	0.930	2.67			
75	26.80	360.9	15741	2.05	5.68			
76	26.92	360.9	-	-	-			
77	27.34	360.9	5461	1.30	3.61			
78	27.40	395.3	6647	1.07	2.71			
79	27.60	360.9	87	0.0244	0.0675			
80	27.78	360.9	2079	0.179	0.497			
82	28.01	360.9	12934	1.91	5.30			
83	28.18	360.9	1186	0.161	0.445			
84	28.40	360.9	284	0.0102	0.0283			
85	28.74	395.3	3077	0.862	2.18			
87	29.04	395.3	570	0.151	0.383			
88	29.20	395.3	18368	2.75	6.97			
89	29.32	360.9	711	0.0615	0.170			
90	29.51	395.3	7788	1.22	3.09			
91	29.79	360.9	114	0.0191	0.0530			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.12	394.3	3156	0.364	0.924			
93	30.51	394.3	15518	2.41	6.12			
94	30.78	394.3	7316	1.28	3.24			
95	31.09	382.2	3386	0.581	1.52			
96	31.35	429.8	2347	0.0548	0.127			
98	31.53	395.3	200	0.0231	0.0584			
99	31.91	429.8	1897	0.339	0.789			
100	32.16	395.3	2342	0.466	1.18			
101	32.45	429.8	481	0.101	0.236			
102	32.64	395.3	32360	4.46	11.3			
103	32.90	395.3	1980	0.317	0.801			
104	33.20	395.3	578	0.113	0.287			
105	33.56	429.8	1898	0.303	0.705			
106	34.73	395.3	9609	0.897	2.27			
107	35.01	395.3	2514	0.293	0.740			
108	35.89	429.8	741	0.0946	0.220			
109	36.12	429.8	13919	3.32	7.73			
110	36.68	429.8	14763	3.24	7.54			
111	37.86	395.3	190	0.0241	0.0610			
112	39.44	429.8	5001	0.422	0.981			
113	39.98	464.2	1009	0.241	0.520			
114	40.93	464.2	674	0.0823	0.177			
115	42.36	429.8	12561	1.31	3.05			
116	43.26	429.8	454	0.0755	0.176			
117	48.52	464.2	4687	0.538	1.16			
118	54.70	498.6	90	0.0150	0.0301			

Total Concentration = 127 ng/mL

Total Nanomoles = 0.451

Average Molecular Weight = 281.8

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.96 minutes

Internal Standard Peak Area = 101767.1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 07:40:14  
 Lab Sample ID: CCCS0625A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-713-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	0.2509	2	6.666	9.954
3	12.82	1:0	002		3	-	-
4	12.92	1:0	003	0.2751	4	4.201	6.273
5	13.53	2:2	004 010	0.2881	2-2; 26	1.746	2.205
6	14.40	2:1	007 009	0.3066	24; 25	0.614	0.776
7	14.71	2:1	006	0.3132	2-3	1.018	1.285
8	14.90	2:1	005 008	0.3173	23; 2-4	8.228	10.393
9	15.46	2:0	014		35	-	-
10	15.54	3:3	019	0.3309	26-2	0.185	0.203
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.28	2:0	012 013	0.3467	34; 3-4	0.163	0.205
14	16.40	2:0 3:2	015 018	0.3492	4-4; 25-2	2.512	2.843
15	16.49	3:2	017	0.3511	24-2	2.247	2.459
16	16.79	3:2	024 027	0.3575	236; 26-3	0.168	0.184
17	17.04	3:2	016 032	0.3629	23-2; 26-4	2.437	2.667
19	17.50	3:1 4:4	023 034 054	0.3727	235; 35-2; 26-26	0.008	0.009
20	17.69	3:1	029	0.3767	245	0.034	0.037
21	17.82	3:1	026	0.3795	25-3	0.509	0.557
22	17.90	3:1	025	0.3812	24-3	0.201	0.220
23	18.10	3:1	031	0.3854	25-4	2.494	2.729
24	18.15	3:1 4:3	028 050	0.3865	24-4; 246-2	2.557	2.798
25	18.50	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.480	2.693
26	18.73	3:1 4:3	022 051	0.3989	23-4; 24-26	1.682	1.832
27	18.96	4:3	045	0.4037	236-2	0.551	0.532
28	19.10	3:0	036		35-3	-	-
29	19.24	4:3	046	0.4097	23-26	0.248	0.239
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073	0.4159	25-25; 246-3; 26-35	3.299	3.184
32	19.70	4:2	043 049	0.4195	235-2; 24-25	1.370	1.322
33	19.82	4:2	038 047	0.4221	345; 24-24	0.409	0.395
34	19.88	4:2	048 075	0.4233	245-2; 246-4	0.559	0.539
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.09	3:0	035	0.4278	34-3	0.034	0.037
37	20.27	5:4 4:2	104 044	0.4316	246-26; 23-25	2.591	2.500
38	20.40	3:0 4:2	037 042 059	0.4344	34-4; 23-24; 236-3	1.868	1.932
39	20.75	4:2	041 064 071 072	0.4419	234-2; 236-4; 26-34; 25-35	2.231	2.153

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
41	20.91	5:4	068 096	0.4453	24-35; 236-26	0.032	0.028
42	21.02	4:2	040	0.4476	23-23	0.597	0.576
43	21.26	4:1 5:3	057 103	0.4527	235-3; 246-25	0.032	0.030
44	21.45	4:1 5:3	058 067 100	0.4568	23-35; 245-3; 246-24	0.069	0.065
45	21.60	4:1	063	0.4600	235-4	0.101	0.097
46	21.77	4:1 5:3	074 094 061	0.4636	245-4; 235-26; 2345	0.829	0.800
47	21.90	4:1	070	0.4664	25-34	1.958	1.890
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.853	3.700
49	22.32	4:1 5:3	055 091 121	0.4753	234-3; 236-24; 246-35	0.270	0.235
50	22.63	4:1	056 060	0.4819	23-34; 234-4	1.760	1.698
51	22.87	5:3 6:4	084 092 155	0.4870	236-23; 235-25; 246-246	1.282	1.107
52	22.97	5:3	089	0.4891	234-26	0.045	0.039
53	23.13	5:2	090 101	0.4925	235-24; 245-25	1.111	0.959
54	23.32	5:2	079 099 113	0.4966	34-35; 245-24; 236-35	0.342	0.296
55	23.60	5:2 6:4	119 150	0.5026	246-34; 236-246	0.010	0.009
56	23.70	5:2	078 083 112 108	0.5047	345-3; 235-23; 2356-3; 2346-3	0.103	0.089
57	23.91	5:2 6:4	097 152 086	0.5092	245-23; 2356-26; 2345-2	0.361	0.312
58	24.08	5:2	081 087 117 125 115 145	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.744	0.642
59	24.24	5:2	116 085 111	0.5162	23456; 234-24; 235-35	0.310	0.268
60	24.36	6:4	120 136	0.5187	245-35; 236-236	0.385	0.301
61	24.49	5:2	077 110 148	0.5215	34-34; 236-34; 235-246	1.242	1.073
62	24.77	6:3	154		245-246	-	-
63	24.86	5:2	082	0.5294	234-23	0.254	0.219
64	25.16	6:3	151	0.5358	2356-25	1.029	0.804
65	25.29	5:1 6:3	124 135	0.5385	345-25; 235-236	0.173	0.139
66	25.36	6:3	144	0.5400	2346-25	0.369	0.288
67	25.42	5:1 6:3	107 109 147	0.5413	234-35; 235-34; 2356-24	0.061	0.051
68	25.52	5:1	123	0.5434	345-24	0.015	0.013
69	25.60	5:1 6:3	106 118 139 149	0.5451	2345-3; 245-34; 2346-24; 236-245	2.182	1.822
70	25.73	6:3	140		234-246	-	-
71	26.01	5:1 6:3	114 134 143	0.5539	2345-4; 2356-23; 2345-26	0.109	0.088
72	26.22	5:1 6:3	122 131 133 142	0.5583	345-23; 2346-23; 235-235; 23456-2	0.015	0.013
73	26.51	6:2	146 165 188	0.5645	235-245; 2356-35; 2356-246	0.228	0.178
74	26.64	5:1 6:3	105 132 161	0.5673	234-34; 234-236; 2346-35	0.732	0.593
75	26.80	6:2	153	0.5707	245-245	1.614	1.260
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.34	6:2	141	0.5822	2345-25	1.025	0.800
78	27.40	7:4	179	0.5835	2356-236	0.842	0.600
79	27.60	6:2	137	0.5877	2345-24	0.019	0.015
80	27.78	6:2 7:4	130 176	0.5916	234-235; 2346-236	0.141	0.110
82	28.01	6:2	138 163 164	0.5965	234-245; 2356-34; 236-345	1.506	1.175
83	28.18	6:2	158 160 186	0.6001	2346-34; 23456-3; 23456-26	0.126	0.099
84	28.40	6:2	126 129	0.6048	345-34; 2345-23	0.008	0.006
85	28.74	7:3	166 178	0.6120	23456-4; 2356-235	0.678	0.484
87	29.04	7:3	175 159	0.6184	2346-235; 2345-35	0.119	0.085
88	29.20	7:3	182 187	0.6218	2345-246; 2356-245	2.167	1.544
89	29.32	6:2	128 162	0.6244	234-234; 235-345	0.048	0.038
90	29.51	7:3	183	0.6284	2346-245	0.961	0.685
91	29.79	6:1	167	0.6344	245-345	0.015	0.012
92	30.12	7:3	185	0.6414	23456-25	0.287	0.205
93	30.51	7:3	174 181	0.6497	2345-236; 23456-24	1.900	1.357
94	30.78	7:3	177	0.6555	2356-234	1.006	0.719
95	31.09	6:1 7:3	156 171	0.6621	2345-34; 2346-234	0.457	0.337
96	31.35	8:4	157 202	0.6676	234-345; 2356-2356	0.043	0.028
98	31.53	7:3	173	0.6714	23456-23	0.018	0.013
99	31.91	8:4	201	0.6795	2346-2356	0.267	0.175
100	32.16	7:2	172 204	0.6848	2345-235; 23456-246	0.367	0.262
101	32.45	8:4	192 197	0.6910	23456-35; 2346-2346	0.080	0.052
102	32.64	7:2	180	0.6951	2345-245	3.510	2.502
103	32.90	7:2	193	0.7006	2356-345	0.249	0.178
104	33.20	7:2	191	0.7070	2346-345	0.089	0.064
105	33.56	8:4	200 169	0.7147	23456-236; 345-345	0.239	0.156
106	34.73	7:2	170	0.7396	2345-234	0.706	0.503

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.01	7:2	<b>190</b>	0.7455	23456-34	0.230	0.164
108	35.89	8:3	<b>198</b>	0.7643	23456-235	0.074	0.049
109	36.12	8:3	<b>199</b>	0.7692	2345-2356	2.614	1.713
110	36.68	8:3	<b>196 203</b>	0.7811	2345-2346; 23456-245	2.549	1.671
111	37.86	7:1	<b>189</b>	0.8062	2345-345	0.019	0.014
112	39.44	8:3	<b>195</b>	0.8399	23456-234	0.332	0.218
113	39.98	9:4	<b>208</b>	0.8514	23456-2356	0.190	0.115
114	40.93	9:4	<b>207</b>	0.8716	23456-2346	0.065	0.039
115	42.36	8:2	<b>194</b>	0.9020	2345-2345	1.031	0.676
116	43.26	8:2	<b>205</b>	0.9212	23456-345	0.059	0.039
117	48.52	9:3	<b>206</b>	1.033	23456-2345	0.423	0.257
118	54.70	10:4	<b>209</b>	1.165	23456-23456	0.012	0.007

Concentration = 127 ng/mL

Total Nanomoles = 0.451

Average Molecular Weight = 281.8

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

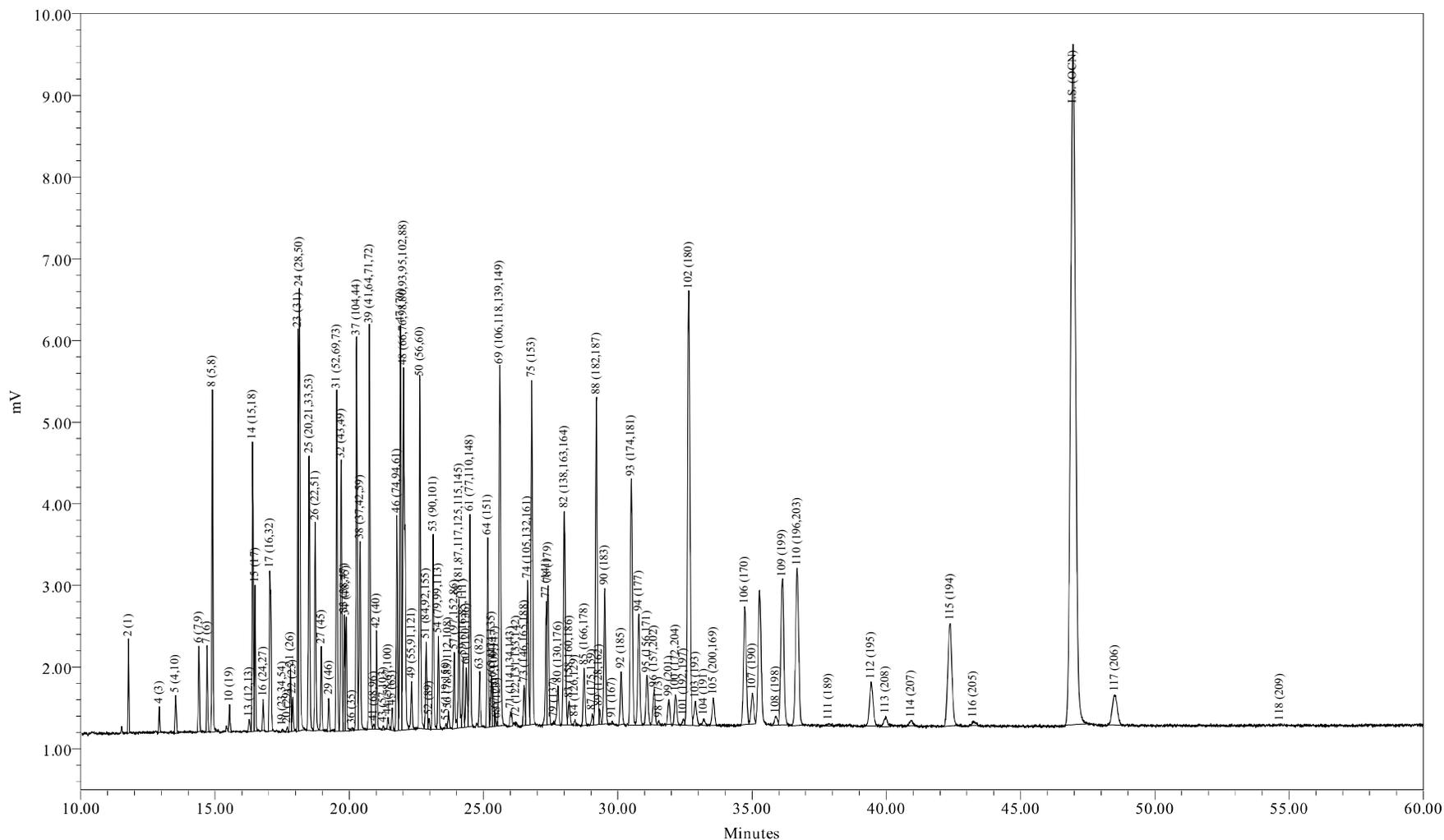
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: CCCS0625B  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 6/25/2009 1:16:58 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-713-1T

Sample Name: CCCS0625B

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 13:16:58  
 Lab Sample ID: CCCS0625B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-713-11

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 125 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.01	16.43
Di	12.34	15.49
Tri	17.75	19.38
Tetra	21.28	20.57
Penta	8.35	7.15
Hexa	8.09	6.36
Hepta	13.28	9.47
Octa	7.21	4.73
Nona	0.69	0.42
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	8.1721	37.6	30.5
A1242	23+24/31+28	6.3072	29.0	23.5
A1254SED	61/100	1.5389	7.08	
A1254BIO	69+75+82/149+153+138	6.6350		24.7
A1260	102/180	4.3896	20.2	16.4
A1268	115/194	1.3164	6.06	4.91

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 2.13

Total Cl / biphenyl Residue = 3.70

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 13:16:58  
 Lab Sample ID: CCCS0625B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-713-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.78	188.7	2109	8.17	43.3			
3	12.82	188.7		-	-			
4	12.92	188.7	664	5.61	29.7			
5	13.53	223.1	1397	2.27	10.2			
6	14.40	223.1	3066	0.747	3.35			
7	14.71	223.1	2542	1.27	5.70			
8	14.90	223.1	11002	10.2	45.6			
9	15.46	223.1		-	-			
10	15.54	257.5	826	0.246	0.956			
11	16.01	257.5		-	-			
12	16.08	223.1		-	-			
13	16.27	223.1	544	0.202	0.908			
14	16.40	249.0	10116	3.10	12.5			
15	16.49	257.5	4929	2.78	10.8			
16	16.79	257.5	983	0.191	0.741			
17	17.05	257.5	8611	3.03	11.8			
19	17.51	267.9	135	0.0389	0.145			
20	17.69	257.5	186	0.0390	0.151			
21	17.81	257.5	2174	0.630	2.45			
22	17.90	257.5	1228	0.252	0.979			
23	18.10	257.5	13188	3.15	12.2			
24	18.15	257.5	16538	3.16	12.3			
25	18.50	259.5	11849	3.10	12.0			
26	18.73	258.7	7739	2.14	8.28			
27	18.96	292.0	2889	0.703	2.41			
28	19.10	257.5		-	-			
29	19.24	292.0	1151	0.316	1.08			
30	19.36	257.5		-	-			
31	19.53	292.0	12462	4.10	14.1			
32	19.70	292.0	10135	1.70	5.82			
33	19.82	292.0	4157	0.512	1.75			
34	19.88	292.0	4308	0.691	2.37			
35	20.02	292.0		-	-			
36	20.10	257.5	136	0.0515	0.200			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.27	292.0	14624	3.22	11.0			
38	20.40	272.4	8677	2.34	8.59			
39	20.75	292.0	16258	2.77	9.48			
41	20.92	326.4	264	0.0698	0.214			
42	21.02	292.0	3675	0.765	2.62			
43	21.26	298.9	143	0.0286	0.0958			
44	21.45	298.9	519	0.0792	0.265			
45	21.60	292.0	889	0.141	0.482			
46	21.77	292.0	8663	1.06	3.62			
47	21.90	292.0	16542	2.45	8.39			
48	22.02	293.5	22524	4.88	16.6			
49	22.32	324.7	2117	0.385	1.18			
50	22.63	292.0	14582	2.18	7.45			
51	22.87	326.4	4254	1.61	4.94			
52	22.96	326.4	436	0.0755	0.231			
53	23.13	326.4	7915	1.40	4.29			
54	23.32	326.4	3753	0.437	1.34			
55	23.60	326.4	197	0.0170	0.0520			
56	23.69	326.4	666	0.135	0.412			
57	23.91	326.4	3243	0.458	1.40			
58	24.08	326.4	5527	0.933	2.86			
59	24.24	326.4	2980	0.398	1.22			
60	24.36	360.9	2770	0.507	1.40			
61	24.49	326.4	8740	1.54	4.71			
62	24.77	360.9	-	-	-			
63	24.86	326.4	2276	0.338	1.04			
64	25.16	360.9	7548	1.28	3.54			
65	25.29	350.5	2045	0.214	0.610			
66	25.35	360.9	1684	0.455	1.26			
67	25.42	336.8	452	0.0911	0.271			
68	25.51	326.4	114	0.0190	0.0582			
69	25.60	337.5	18481	2.74	8.12			
70	25.73	360.9	-	-	-			
71	26.01	347.8	847	0.138	0.396			
72	26.21	336.8	166	0.0198	0.0589			
73	26.51	360.9	1736	0.272	0.755			
74	26.64	347.8	7730	0.925	2.66			
75	26.80	360.9	16316	2.01	5.58			
76	26.92	360.9	-	-	-			
77	27.33	360.9	5857	1.32	3.67			
78	27.40	395.3	6710	1.02	2.59			
79	27.61	360.9	106	0.0279	0.0774			
80	27.77	360.9	2218	0.181	0.502			
82	28.01	360.9	13422	1.88	5.21			
83	28.19	360.9	1328	0.170	0.472			
84	28.41	360.9	246	0.00838	0.0232			
85	28.74	395.3	3167	0.841	2.13			
87	29.05	395.3	621	0.156	0.395			
88	29.20	395.3	18986	2.70	6.82			
89	29.30	360.9	752	0.0616	0.171			
90	29.51	395.3	8004	1.19	3.01			
91	29.79	360.9	105	0.0166	0.0461			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.12	394.3	3210	0.351	0.891			
93	30.50	394.3	15962	2.35	5.97			
94	30.78	394.3	7430	1.23	3.12			
95	31.08	382.2	3399	0.552	1.45			
96	31.35	429.8	2329	0.0515	0.120			
98	31.53	395.3	210	0.0229	0.0580			
99	31.90	429.8	1586	0.269	0.625			
100	32.14	395.3	2169	0.409	1.03			
101	32.45	429.8	398	0.0794	0.185			
102	32.64	395.3	33604	4.39	11.1			
103	32.89	395.3	2049	0.311	0.786			
104	33.21	395.3	519	0.0965	0.244			
105	33.56	429.8	2099	0.318	0.739			
106	34.73	395.3	10083	0.892	2.26			
107	35.01	395.3	2581	0.285	0.721			
108	35.89	429.8	791	0.0958	0.223			
109	36.13	429.8	14191	3.21	7.47			
110	36.68	429.8	15484	3.22	7.49			
111	37.86	395.3	309	0.0373	0.0943			
112	39.43	429.8	4950	0.396	0.921			
113	39.97	464.2	1173	0.266	0.573			
114	40.92	464.2	610	0.0706	0.152			
115	42.38	429.8	13317	1.32	3.06			
116	43.24	429.8	479	0.0755	0.176			
117	48.51	464.2	4831	0.525	1.13			
118	54.67	498.6	22	0.00360	0.00722			

Total Concentration = 125 ng/mL

Total Nanomoles = 0.445

Average Molecular Weight = 281.5

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.95 minutes

Internal Standard Peak Area = 107384.6

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/25/2009 13:16:58  
 Lab Sample ID: CCCS0625B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-713-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	0.2509	2	6.529	9.740
3	12.82	1:0	002		3	-	-
4	12.92	1:0	003	0.2752	4	4.482	6.687
5	13.53	2:2	004 010	0.2882	2-2; 26	1.812	2.286
6	14.40	2:1	007 009	0.3067	24; 25	0.597	0.753
7	14.71	2:1	006	0.3133	2-3	1.016	1.282
8	14.90	2:1	005 008	0.3174	23; 2-4	8.136	10.267
9	15.46	2:0	014		35	-	-
10	15.54	3:3	019	0.3310	26-2	0.197	0.215
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.27	2:0	012 013	0.3465	34; 3-4	0.162	0.204
14	16.40	2:0 3:2	015 018	0.3493	4-4; 25-2	2.479	2.803
15	16.49	3:2	017	0.3512	24-2	2.222	2.429
16	16.79	3:2	024 027	0.3576	236; 26-3	0.152	0.167
17	17.05	3:2	016 032	0.3632	23-2; 26-4	2.419	2.645
19	17.51	3:1 4:4	023 034 054	0.3729	235; 35-2; 26-26	0.031	0.033
20	17.69	3:1	029	0.3768	245	0.031	0.034
21	17.81	3:1	026	0.3793	25-3	0.504	0.551
22	17.90	3:1	025	0.3813	24-3	0.201	0.220
23	18.10	3:1	031	0.3855	25-4	2.515	2.750
24	18.15	3:1 4:3	028 050	0.3866	24-4; 246-2	2.524	2.759
25	18.50	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.478	2.688
26	18.73	3:1 4:3	022 051	0.3989	23-4; 24-26	1.712	1.863
27	18.96	4:3	045	0.4038	236-2	0.562	0.541
28	19.10	3:0	036		35-3	-	-
29	19.24	4:3	046	0.4098	23-26	0.252	0.243
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.278	3.161
32	19.70	4:2	043 049	0.4196	235-2; 24-25	1.359	1.310
33	19.82	4:2	038 047	0.4222	345; 24-24	0.409	0.394
34	19.88	4:2	048 075	0.4234	245-2; 246-4	0.552	0.532
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.10	3:0	035	0.4281	34-3	0.041	0.045
37	20.27	5:4 4:2	104 044	0.4317	246-26; 23-25	2.571	2.479
38	20.40	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.868	1.931
39	20.75	4:2	041 064 071 072	0.4420	234-2; 236-4; 26-34; 25-35	2.212	2.133

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.92	5:4	068 096	0.4456	24-35; 236-26	0.056	0.048
42	21.02	4:2	040	0.4477	23-23	0.611	0.589
43	21.26	4:1 5:3	057 103	0.4528	235-3; 246-25	0.023	0.022
44	21.45	4:1 5:3	058 067 100	0.4569	23-35; 245-3; 246-24	0.063	0.060
45	21.60	4:1	063	0.4601	235-4	0.112	0.108
46	21.77	4:1 5:3	074 094 061	0.4637	245-4; 235-26; 2345	0.846	0.815
47	21.90	4:1	070	0.4665	25-34	1.956	1.886
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088	0.4690	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.899	3.740
49	22.32	4:1 5:3	055 091 121	0.4754	234-3; 236-24; 246-35	0.307	0.266
50	22.63	4:1	056 060	0.4820	23-34; 234-4	1.739	1.676
51	22.87	5:3 6:4	084 092 155	0.4871	236-23; 235-25; 246-246	1.288	1.111
52	22.96	5:3	089	0.4890	234-26	0.060	0.052
53	23.13	5:2	090 101	0.4927	235-24; 245-25	1.119	0.965
54	23.32	5:2	079 099 113	0.4967	34-35; 245-24; 236-35	0.349	0.301
55	23.60	5:2 6:4	119 150	0.5027	246-34; 236-246	0.014	0.012
56	23.69	5:2	078 083 112 108	0.5046	345-3; 235-23; 2356-3; 2346-3	0.108	0.093
57	23.91	5:2 6:4	097 152 086	0.5093	245-23; 2356-26; 2345-2	0.366	0.315
58	24.08	5:2	081 087 117 125 115 145	0.5129	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.745	0.643
59	24.24	5:2	116 085 111	0.5163	23456; 234-24; 235-35	0.318	0.274
60	24.36	6:4	120 136	0.5188	245-35; 236-236	0.405	0.316
61	24.49	5:2	077 110 148	0.5216	34-34; 236-34; 235-246	1.229	1.060
62	24.77	6:3	154		245-246	-	-
63	24.86	5:2	082	0.5295	234-23	0.270	0.233
64	25.16	6:3	151	0.5359	2356-25	1.022	0.797
65	25.29	5:1 6:3	124 135	0.5387	345-25; 235-236	0.171	0.137
66	25.35	6:3	144	0.5399	2346-25	0.363	0.283
67	25.42	5:1 6:3	107 109 147	0.5414	234-35; 235-34; 2356-24	0.073	0.061
68	25.51	5:1	123	0.5433	345-24	0.015	0.013
69	25.60	5:1 6:3	106 118 139 149	0.5453	2345-3; 245-34; 2346-24; 236-245	2.189	1.826
70	25.73	6:3	140		234-246	-	-
71	26.01	5:1 6:3	114 134 143	0.5540	2345-4; 2356-23; 2345-26	0.110	0.089
72	26.21	5:1 6:3	122 131 133 142	0.5583	345-23; 2346-23; 235-235; 23456-2	0.016	0.013
73	26.51	6:2	146 165 188	0.5646	235-245; 2356-35; 2356-246	0.218	0.170
74	26.64	5:1 6:3	105 132 161	0.5674	234-34; 234-236; 2346-35	0.739	0.598
75	26.80	6:2	153	0.5708	245-245	1.609	1.255
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.33	6:2	141	0.5821	2345-25	1.057	0.825
78	27.40	7:4	179	0.5836	2356-236	0.818	0.582
79	27.61	6:2	137	0.5881	2345-24	0.022	0.017
80	27.77	6:2 7:4	130 176	0.5915	234-235; 2346-236	0.145	0.113
82	28.01	6:2	138 163 164	0.5966	234-245; 2356-34; 236-345	1.503	1.172
83	28.19	6:2	158 160 186	0.6004	2346-34; 23456-3; 23456-26	0.136	0.106
84	28.41	6:2	126 129	0.6051	345-34; 2345-23	0.007	0.005
85	28.74	7:3	166 178	0.6121	23456-4; 2356-235	0.672	0.478
87	29.05	7:3	175 159	0.6187	2346-235; 2345-35	0.125	0.089
88	29.20	7:3	182 187	0.6219	2345-246; 2356-245	2.154	1.534
89	29.30	6:2	128 162	0.6241	234-234; 235-345	0.049	0.038
90	29.51	7:3	183	0.6285	2346-245	0.950	0.677
91	29.79	6:1	167	0.6345	245-345	0.013	0.010
92	30.12	7:3	185	0.6415	23456-25	0.281	0.200
93	30.50	7:3	174 181	0.6496	2345-236; 23456-24	1.880	1.342
94	30.78	7:3	177	0.6556	2356-234	0.983	0.702
95	31.08	6:1 7:3	156 171	0.6620	2345-34; 2346-234	0.441	0.325
96	31.35	8:4	157 202	0.6677	234-345; 2356-2356	0.041	0.027
98	31.53	7:3	173	0.6716	23456-23	0.018	0.013
99	31.90	8:4	201	0.6794	2346-2356	0.215	0.141
100	32.14	7:2	172 204	0.6846	2345-235; 23456-246	0.327	0.233
101	32.45	8:4	192 197	0.6912	23456-35; 2346-2346	0.063	0.042
102	32.64	7:2	180	0.6952	2345-245	3.507	2.497
103	32.89	7:2	193	0.7005	2356-345	0.248	0.177
104	33.21	7:2	191	0.7073	2346-345	0.077	0.055
105	33.56	8:4	200 169	0.7148	23456-236; 345-345	0.254	0.166
106	34.73	7:2	170	0.7397	2345-234	0.713	0.508

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.01	7:2	<b>190</b>	0.7457	23456-34	0.228	0.162
108	35.89	8:3	<b>198</b>	0.7644	23456-235	0.077	0.050
109	36.13	8:3	<b>199</b>	0.7695	2345-2356	2.564	1.679
110	36.68	8:3	<b>196 203</b>	0.7813	2345-2346; 23456-245	2.573	1.685
111	37.86	7:1	<b>189</b>	0.8064	2345-345	0.030	0.021
112	39.43	8:3	<b>195</b>	0.8398	23456-234	0.316	0.207
113	39.97	9:4	<b>208</b>	0.8513	23456-2356	0.212	0.129
114	40.92	9:4	<b>207</b>	0.8716	23456-2346	0.056	0.034
115	42.38	8:2	<b>194</b>	0.9027	2345-2345	1.052	0.689
116	43.24	8:2	<b>205</b>	0.9210	23456-345	0.060	0.040
117	48.51	9:3	<b>206</b>	1.033	23456-2345	0.420	0.254
118	54.67	10:4	<b>209</b>	1.164	23456-23456	0.003	0.002

Concentration = 125 ng/mL

Total Nanomoles = 0.445

Average Molecular Weight = 281.5

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



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Sample Name:	CCCS0624A	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	06/24/2009 10:10:44	Extract Volume:	1
Project Name:	GC16_May_2009	Date Processed:	06/24/2009 15:56:29
Sample Set Name:	GC16_062409d	User Name:	Kari Lantiegne
Processing Method:	CSGB_LL1X_062209	Current Time:	19:30:17
Run Time:	60 Minutes	Current Date:	06/25/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC16-712-4

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.78	2210	9.626	9.626
2	4 (3)	12.93	627	5.961	5.961
3	5 (4,10)	13.53	1370	2.501	2.501
4	6 (7,9)	14.40	3176	0.871	0.871
5	7 (6)	14.71	2389	1.345	1.345
6	8 (5,8)	14.90	10867	11.326	11.326
7	10 (19)	15.54	774	0.260	0.260
8	13 (12,13)	16.29	362	0.152	0.152
9	14 (15,18)	16.40	9823	3.391	3.391
10	15 (17)	16.49	5082	3.227	3.227
11	16 (24,27)	16.79	1089	0.238	0.238
12	17 (16,32)	17.05	8677	3.434	3.434
13	19 (23,34,54)	17.51	49	0.016	0.016
14	20 (29)	17.70	179	0.042	0.042
15	21 (26)	17.82	2026	0.661	0.661
16	22 (25)	17.90	1232	0.284	0.284
17	23 (31)	18.10	11982	3.218	3.218
18	24 (28,50)	18.15	16447	3.537	3.537
19	25 (20,21,33,53)	18.50	11270	3.319	3.319
20	26 (22,51)	18.74	7230	2.252	2.252
21	27 (45)	18.96	2748	0.752	0.752
22	29 (46)	19.24	1129	0.348	0.348
23	31 (52,69,73)	19.53	12128	4.495	4.495
24	32 (43,49)	19.70	9811	1.854	1.854
25	33 (38,47)	19.82	3921	0.544	0.544
26	34 (48,75)	19.88	4219	0.762	0.762
27	36 (35)	20.13	70	0.030	0.030
28	37 (104,44)	20.28	14120	3.498	3.498
29	38 (37,42,59)	20.41	8316	2.523	2.523
30	39 (41,64,71,72)	20.75	15889	3.046	3.046
31	41 (68,96)	20.91	289	0.086	0.086
32	42 (40)	21.02	3628	0.849	0.849
33	43 (57,103)	21.26	175	0.039	0.039

CCCS0624A

1 of 3

Print Date: 06/25/2009  
Nea Lims Version : 4.4.4.4

34	44 (58,67,100)	21.45	454	0.078	0.078
35	45 (63)	21.60	678	0.121	0.121
36	46 (74,94,61)	21.78	7575	1.041	1.041
37	47 (70)	21.91	14957	2.491	2.491
38	48 (66,76,98,80,93,95,	22.02	21112	5.148	5.148
39	49 (55,91,121)	22.32	1950	0.398	0.398
40	50 (56,60)	22.63	13311	2.235	2.235
41	51 (84,92,155)	22.86	4188	1.785	1.785
42	52 (89)	22.97	421	0.082	0.082
43	53 (90,101)	23.13	7345	1.463	1.463
44	54 (79,99,113)	23.32	3402	0.446	0.446
45	55 (119,150)	23.60	154	0.015	0.015
46	56 (78,83,112,108)	23.70	519	0.118	0.118
47	57 (97,152,86)	23.91	3070	0.488	0.488
48	58 (81,87,117,125,115)	24.08	5104	0.969	0.969
49	59 (116,85,111)	24.24	2893	0.434	0.434
50	60 (120,136)	24.36	2690	0.553	0.553
51	61 (77,110,148)	24.49	8242	1.633	1.633
52	63 (82)	24.86	1992	0.333	0.333
53	64 (151)	25.16	6931	1.321	1.321
54	65 (124,135)	25.29	1925	0.226	0.226
55	66 (144)	25.36	1474	0.448	0.448
56	67 (107,109,147)	25.42	351	0.080	0.080
57	68 (123)	25.52	72	0.013	0.013
58	69 (106,118,139,149)	25.61	16890	2.817	2.817
59	71 (114,134,143)	26.00	817	0.149	0.149
60	72 (122,131,133,142)	26.22	167	0.022	0.022
61	73 (146,165,188)	26.51	1663	0.294	0.294
62	74 (105,132,161)	26.64	6827	0.918	0.918
63	75 (153)	26.80	15087	2.096	2.096
64	77 (141)	27.34	4913	1.248	1.248
65	78 (179)	27.40	6445	1.106	1.106
66	79 (137)	27.61	83	0.025	0.025
67	80 (130,176)	27.78	1942	0.178	0.178
68	82 (138,163,164)	28.01	11907	1.877	1.877
69	83 (158,160,186)	28.19	1205	0.174	0.174
70	84 (126,129)	28.40	165	0.006	0.006
71	85 (166,178)	28.74	2834	0.846	0.846
72	87 (175,159)	29.04	433	0.122	0.122
73	88 (182,187)	29.20	17161	2.742	2.742
74	89 (128,162)	29.31	680	0.063	0.063
75	90 (183)	29.52	7199	1.203	1.203
76	91 (167)	29.79	93	0.017	0.017
77	92 (185)	30.13	2842	0.350	0.350
78	93 (174,181)	30.51	14444	2.395	2.395
79	94 (177)	30.78	6563	1.223	1.223
80	95 (156,171)	31.09	3012	0.550	0.550
81	96 (157,202)	31.34	2179	0.054	0.054
82	98 (173)	31.54	237	0.029	0.029
83	99 (201)	31.91	1694	0.323	0.323
84	100 (172,204)	32.16	2027	0.430	0.430

85	101 (192,197)	32.43	373	0.084	0.084
86	102 (180)	32.65	29503	4.334	4.334
87	103 (193)	32.89	1719	0.293	0.293
88	104 (191)	33.20	212	0.045	0.045
89	105 (200,169)	33.56	1951	0.332	0.332
90	106 (170)	34.74	8796	0.876	0.876
91	107 (190)	35.02	2350	0.292	0.292
92	108 (198)	35.89	655	0.089	0.089
93	109 (199)	36.13	12400	3.154	3.154
94	110 (196,203)	36.68	13063	3.055	3.055
95	111 (189)	37.87	114	0.015	0.015
96	112 (195)	39.46	3816	0.344	0.344
97	113 (208)	39.98	849	0.217	0.217
98	114 (207)	40.94	359	0.047	0.047
99	115 (194)	42.37	10961	1.218	1.218
100	116 (205)	43.26	426	0.076	0.076
101	117 (206)	48.52	4002	0.489	0.489
102	118 (209)	54.64	8	0.002	0.002
103	Sum			132.627	132.627



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Sample Name:	CCCS0624B	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	06/24/2009 15:48:25	Extract Volume:	1
Project Name:	GC16_May_2009	Date Processed:	06/24/2009 18:52:34
Sample Set Name:	GC16_062409d	User Name:	Kari Lantiegne
Processing Method:	CSGB_LL1X_062209	Current Time:	19:30:18
Run Time:	60 Minutes	Current Date:	06/25/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC16-712-9

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.78	2057	8.915	8.915
2	4 (3)	12.93	592	5.598	5.598
3	5 (4,10)	13.53	1328	2.413	2.413
4	6 (7,9)	14.40	3064	0.836	0.836
5	7 (6)	14.71	2430	1.361	1.361
6	8 (5,8)	14.90	10667	11.056	11.056
7	10 (19)	15.54	782	0.261	0.261
8	13 (12,13)	16.28	394	0.164	0.164
9	14 (15,18)	16.40	9825	3.374	3.374
10	15 (17)	16.49	4975	3.141	3.141
11	16 (24,27)	16.79	1023	0.223	0.223
12	17 (16,32)	17.05	8494	3.343	3.343
13	19 (23,34,54)	17.54	88	0.029	0.029
14	20 (29)	17.70	153	0.036	0.036
15	21 (26)	17.82	2042	0.662	0.662
16	22 (25)	17.90	1211	0.278	0.278
17	23 (31)	18.10	12078	3.226	3.226
18	24 (28,50)	18.15	16726	3.579	3.579
19	25 (20,21,33,53)	18.50	11626	3.406	3.406
20	26 (22,51)	18.73	7563	2.343	2.343
21	27 (45)	18.96	2860	0.779	0.779
22	29 (46)	19.24	1039	0.319	0.319
23	31 (52,69,73)	19.53	12119	4.467	4.467
24	32 (43,49)	19.70	9686	1.820	1.820
25	33 (38,47)	19.82	3966	0.547	0.547
26	34 (48,75)	19.88	4114	0.739	0.739
27	36 (35)	20.11	82	0.035	0.035
28	37 (104,44)	20.27	14173	3.492	3.492
29	38 (37,42,59)	20.40	8355	2.521	2.521
30	39 (41,64,71,72)	20.75	15615	2.977	2.977
31	41 (68,96)	20.92	261	0.077	0.077
32	42 (40)	21.02	3479	0.810	0.810
33	43 (57,103)	21.27	120	0.027	0.027

CCCS0624B

1 of 3

Print Date: 06/25/2009  
Nea Lims Version : 4.4.4.4

34	44 (58,67,100)	21.45	406	0.069	0.069
35	45 (63)	21.61	724	0.128	0.128
36	46 (74,94,61)	21.78	7752	1.060	1.060
37	47 (70)	21.91	15179	2.515	2.515
38	48 (66,76,98,80,93,95,	22.02	21324	5.172	5.172
39	49 (55,91,121)	22.32	1939	0.394	0.394
40	50 (56,60)	22.63	13703	2.289	2.289
41	51 (84,92,155)	22.86	4081	1.730	1.730
42	52 (89)	22.97	515	0.100	0.100
43	53 (90,101)	23.13	7457	1.477	1.477
44	54 (79,99,113)	23.32	3580	0.467	0.467
45	55 (119,150)	23.60	185	0.018	0.018
46	56 (78,83,112,108)	23.70	587	0.133	0.133
47	57 (97,152,86)	23.91	3031	0.479	0.479
48	58 (81,87,117,125,115)	24.08	5212	0.984	0.984
49	59 (116,85,111)	24.24	2831	0.423	0.423
50	60 (120,136)	24.36	2636	0.539	0.539
51	61 (77,110,148)	24.49	8351	1.646	1.646
52	63 (82)	24.86	2020	0.336	0.336
53	64 (151)	25.16	7060	1.339	1.339
54	65 (124,135)	25.29	1909	0.223	0.223
55	66 (144)	25.36	1566	0.473	0.473
56	67 (107,109,147)	25.42	456	0.103	0.103
57	68 (123)	25.53	142	0.026	0.026
58	69 (106,118,139,149)	25.60	17336	2.877	2.877
59	71 (114,134,143)	26.01	842	0.153	0.153
60	72 (122,131,133,142)	26.23	144	0.019	0.019
61	73 (146,165,188)	26.51	1608	0.282	0.282
62	74 (105,132,161)	26.65	6930	0.927	0.927
63	75 (153)	26.80	15235	2.105	2.105
64	77 (141)	27.34	5241	1.325	1.325
65	78 (179)	27.41	6737	1.149	1.149
66	79 (137)	27.64	175	0.052	0.052
67	80 (130,176)	27.77	2131	0.195	0.195
68	82 (138,163,164)	28.01	12311	1.931	1.931
69	83 (158,160,186)	28.19	1266	0.182	0.182
70	84 (126,129)	28.40	276	0.011	0.011
71	85 (166,178)	28.75	2801	0.832	0.832
72	87 (175,159)	29.05	535	0.151	0.151
73	88 (182,187)	29.20	17667	2.808	2.808
74	89 (128,162)	29.31	710	0.065	0.065
75	90 (183)	29.51	7396	1.230	1.230
76	91 (167)	29.77	236	0.041	0.041
77	92 (185)	30.13	2923	0.358	0.358
78	93 (174,181)	30.51	14869	2.453	2.453
79	94 (177)	30.78	6822	1.265	1.265
80	95 (156,171)	31.09	3100	0.563	0.563
81	96 (157,202)	31.35	2098	0.052	0.052
82	98 (173)	31.53	146	0.018	0.018
83	99 (201)	31.91	1639	0.311	0.311
84	100 (172,204)	32.16	2060	0.435	0.435

85	101 (192,197)	32.48	438	0.098	0.098
86	102 (180)	32.64	30371	4.439	4.439
87	103 (193)	32.90	1869	0.317	0.317
88	104 (191)	33.21	358	0.075	0.075
89	105 (200,169)	33.57	1843	0.312	0.312
90	106 (170)	34.73	8949	0.886	0.886
91	107 (190)	35.01	2319	0.286	0.286
92	108 (198)	35.90	711	0.096	0.096
93	109 (199)	36.13	12904	3.265	3.265
94	110 (196,203)	36.68	13470	3.133	3.133
95	111 (189)	37.84	252	0.034	0.034
96	112 (195)	39.43	4090	0.366	0.366
97	113 (208)	39.98	713	0.181	0.181
98	114 (207)	40.92	616	0.080	0.080
99	115 (194)	42.37	11509	1.273	1.273
100	116 (205)	43.27	454	0.080	0.080
101	117 (206)	48.52	4182	0.509	0.509
102	118 (209)	54.64	10	0.002	0.002
103	Sum			132.197	132.197



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Sample Name:	CCCS0624D	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	06/24/2009 23:11:55	Extract Volume:	1
Project Name:	GC16_May_2009	Date Processed:	06/25/2009 16:57:09
Sample Set Name:	GC16_062409d	User Name:	Inga Hotaling
Processing Method:	CSGB_LL1X_062209	Current Time:	19:30:19
Run Time:	60 Minutes	Current Date:	06/25/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC16-712-15

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.78	2118	9.050	9.050
2	4 (3)	12.93	618	5.755	5.755
3	5 (4,10)	13.53	1316	2.357	2.357
4	6 (7,9)	14.40	3101	0.834	0.834
5	7 (6)	14.71	2482	1.370	1.370
6	8 (5,8)	14.90	10778	11.014	11.014
7	10 (19)	15.54	756	0.248	0.248
8	13 (12,13)	16.29	525	0.215	0.215
9	14 (15,18)	16.40	9853	3.335	3.335
10	15 (17)	16.49	4932	3.071	3.071
11	16 (24,27)	16.79	1006	0.216	0.216
12	17 (16,32)	17.05	8614	3.343	3.343
13	19 (23,34,54)	17.50	82	0.026	0.026
14	20 (29)	17.69	187	0.043	0.043
15	21 (26)	17.81	1967	0.629	0.629
16	22 (25)	17.90	1131	0.256	0.256
17	23 (31)	18.10	12494	3.291	3.291
18	24 (28,50)	18.15	16229	3.422	3.422
19	25 (20,21,33,53)	18.50	11411	3.295	3.295
20	26 (22,51)	18.73	7465	2.280	2.280
21	27 (45)	18.96	2756	0.740	0.740
22	29 (46)	19.23	957	0.290	0.290
23	31 (52,69,73)	19.53	12123	4.405	4.405
24	32 (43,49)	19.70	9826	1.820	1.820
25	33 (38,47)	19.82	4033	0.548	0.548
26	34 (48,75)	19.88	4224	0.748	0.748
27	36 (35)	20.10	110	0.046	0.046
28	37 (104,44)	20.27	14287	3.471	3.471
29	38 (37,42,59)	20.40	8295	2.467	2.467
30	39 (41,64,71,72)	20.75	15835	2.977	2.977
31	41 (68,96)	20.91	170	0.050	0.050
32	42 (40)	21.02	3482	0.800	0.800
33	43 (57,103)	21.26	148	0.033	0.033

CCCS0624D

1 of 3

Print Date: 06/25/2009  
Nea Lims Version : 4.4.4.4

34	44 (58,67,100)	21.44	460	0.077	0.077
35	45 (63)	21.60	670	0.117	0.117
36	46 (74,94,61)	21.77	7945	1.071	1.071
37	47 (70)	21.90	15519	2.535	2.535
38	48 (66,76,98,80,93,95,	22.02	21563	5.157	5.157
39	49 (55,91,121)	22.32	1814	0.364	0.364
40	50 (56,60)	22.63	13845	2.280	2.280
41	51 (84,92,155)	22.86	4032	1.685	1.685
42	52 (89)	22.97	280	0.054	0.054
43	53 (90,101)	23.13	7395	1.444	1.444
44	54 (79,99,113)	23.32	3394	0.436	0.436
45	55 (119,150)	23.59	134	0.013	0.013
46	56 (78,83,112,108)	23.70	557	0.124	0.124
47	57 (97,152,86)	23.91	3106	0.484	0.484
48	58 (81,87,117,125,115)	24.08	5244	0.976	0.976
49	59 (116,85,111)	24.23	2839	0.418	0.418
50	60 (120,136)	24.36	2585	0.521	0.521
51	61 (77,110,148)	24.49	8449	1.642	1.642
52	63 (82)	24.86	2167	0.356	0.356
53	64 (151)	25.16	7176	1.342	1.342
54	65 (124,135)	25.29	1990	0.230	0.230
55	66 (144)	25.35	1570	0.468	0.468
56	67 (107,109,147)	25.42	458	0.102	0.102
57	68 (123)	25.53	118	0.022	0.022
58	69 (106,118,139,149)	25.60	17636	2.885	2.885
59	71 (114,134,143)	26.00	827	0.148	0.148
60	72 (122,131,133,142)	26.23	169	0.022	0.022
61	73 (146,165,188)	26.51	1709	0.296	0.296
62	74 (105,132,161)	26.65	7138	0.942	0.942
63	75 (153)	26.80	15608	2.126	2.126
64	77 (141)	27.34	5421	1.352	1.352
65	78 (179)	27.41	6749	1.135	1.135
66	79 (137)	27.59	91	0.027	0.027
67	80 (130,176)	27.77	2029	0.183	0.183
68	82 (138,163,164)	28.00	12621	1.952	1.952
69	83 (158,160,186)	28.18	1309	0.185	0.185
70	84 (126,129)	28.41	230	0.009	0.009
71	85 (166,178)	28.74	2951	0.864	0.864
72	87 (175,159)	29.06	559	0.155	0.155
73	88 (182,187)	29.20	18116	2.839	2.839
74	89 (128,162)	29.31	781	0.071	0.071
75	90 (183)	29.51	7662	1.256	1.256
76	91 (167)	29.80	145	0.025	0.025
77	92 (185)	30.13	3064	0.370	0.370
78	93 (174,181)	30.51	15147	2.463	2.463
79	94 (177)	30.78	6817	1.246	1.246
80	95 (156,171)	31.09	3022	0.542	0.542
81	96 (157,202)	31.35	2119	0.052	0.052
82	98 (173)	31.52	195	0.023	0.023
83	99 (201)	31.90	1626	0.304	0.304
84	100 (172,204)	32.16	2127	0.443	0.443

85	101 (192,197)	32.44	480	0.106	0.106
86	102 (180)	32.64	31193	4.495	4.495
87	103 (193)	32.89	2095	0.350	0.350
88	104 (191)	33.21	383	0.079	0.079
89	105 (200,169)	33.55	1867	0.312	0.312
90	106 (170)	34.73	9159	0.894	0.894
91	107 (190)	35.01	2286	0.278	0.278
92	108 (198)	35.90	737	0.098	0.098
93	109 (199)	36.12	13172	3.285	3.285
94	110 (196,203)	36.68	13918	3.192	3.192
95	111 (189)	37.89	342	0.045	0.045
96	112 (195)	39.44	4660	0.411	0.411
97	113 (208)	39.96	977	0.244	0.244
98	114 (207)	40.91	597	0.076	0.076
99	115 (194)	42.37	11632	1.268	1.268
100	116 (205)	43.27	495	0.086	0.086
101	117 (206)	48.50	4122	0.494	0.494
102	118 (209)	54.64	13	0.002	0.002
103	Sum			131.996	131.996



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Sample Name:	CCCS0625A	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	06/25/2009 07:40:14	Extract Volume:	1
Project Name:	GC16_May_2009	Date Processed:	06/25/2009 09:19:08
Sample Set Name:	GC16_QEA_062509	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062209	Current Time:	19:30:21
Run Time:	60 Minutes	Current Date:	06/25/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC16-713-6

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.78	2072	8.471	8.471
2	4 (3)	12.92	599	5.339	5.339
3	5 (4,10)	13.53	1295	2.218	2.218
4	6 (7,9)	14.40	3035	0.781	0.781
5	7 (6)	14.71	2450	1.293	1.293
6	8 (5,8)	14.90	10702	10.457	10.457
7	10 (19)	15.54	749	0.235	0.235
8	13 (12,13)	16.28	527	0.207	0.207
9	14 (15,18)	16.40	9862	3.193	3.193
10	15 (17)	16.49	4796	2.856	2.856
11	16 (24,27)	16.79	1041	0.214	0.214
12	17 (16,32)	17.04	8346	3.097	3.097
13	19 (23,34,54)	17.50	34	0.010	0.010
14	20 (29)	17.69	196	0.043	0.043
15	21 (26)	17.82	2114	0.647	0.647
16	22 (25)	17.90	1178	0.255	0.255
17	23 (31)	18.10	12581	3.169	3.169
18	24 (28,50)	18.15	16115	3.249	3.249
19	25 (20,21,33,53)	18.50	11409	3.151	3.151
20	26 (22,51)	18.73	7314	2.137	2.137
21	27 (45)	18.96	2728	0.700	0.700
22	29 (46)	19.24	1089	0.315	0.315
23	31 (52,69,73)	19.53	12065	4.193	4.193
24	32 (43,49)	19.70	9831	1.741	1.741
25	33 (38,47)	19.82	4001	0.520	0.520
26	34 (48,75)	19.88	4195	0.710	0.710
27	36 (35)	20.09	108	0.043	0.043
28	37 (104,44)	20.27	14174	3.292	3.292
29	38 (37,42,59)	20.40	8346	2.374	2.374
30	39 (41,64,71,72)	20.75	15776	2.836	2.836
31	41 (68,96)	20.91	146	0.041	0.041
32	42 (40)	21.02	3455	0.759	0.759
33	43 (57,103)	21.26	193	0.041	0.041

CCCS0625A

1 of 3

Print Date: 06/25/2009  
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34	44 (58,67,100)	21.45	542	0.087	0.087
35	45 (63)	21.60	766	0.128	0.128
36	46 (74,94,61)	21.77	8169	1.053	1.053
37	47 (70)	21.90	15929	2.489	2.489
38	48 (66,76,98,80,93,95,	22.02	21417	4.897	4.897
39	49 (55,91,121)	22.32	1790	0.343	0.343
40	50 (56,60)	22.63	14198	2.237	2.237
41	51 (84,92,155)	22.87	4076	1.630	1.630
42	52 (89)	22.97	316	0.058	0.058
43	53 (90,101)	23.13	7561	1.412	1.412
44	54 (79,99,113)	23.32	3541	0.435	0.435
45	55 (119,150)	23.60	138	0.013	0.013
46	56 (78,83,112,108)	23.70	616	0.131	0.131
47	57 (97,152,86)	23.91	3083	0.459	0.459
48	58 (81,87,117,125,115)	24.08	5309	0.945	0.945
49	59 (116,85,111)	24.24	2801	0.394	0.394
50	60 (120,136)	24.36	2535	0.489	0.489
51	61 (77,110,148)	24.49	8496	1.579	1.579
52	63 (82)	24.86	2057	0.323	0.323
53	64 (151)	25.16	7314	1.308	1.308
54	65 (124,135)	25.29	1991	0.220	0.220
55	66 (144)	25.36	1646	0.469	0.469
56	67 (107,109,147)	25.42	364	0.078	0.078
57	68 (123)	25.52	111	0.019	0.019
58	69 (106,118,139,149)	25.60	17723	2.773	2.773
59	71 (114,134,143)	26.01	804	0.138	0.138
60	72 (122,131,133,142)	26.22	153	0.019	0.019
61	73 (146,165,188)	26.51	1752	0.290	0.290
62	74 (105,132,161)	26.64	7367	0.930	0.930
63	75 (153)	26.80	15741	2.051	2.051
64	77 (141)	27.34	5461	1.302	1.302
65	78 (179)	27.40	6647	1.070	1.070
66	79 (137)	27.60	87	0.024	0.024
67	80 (130,176)	27.78	2079	0.179	0.179
68	82 (138,163,164)	28.01	12934	1.913	1.913
69	83 (158,160,186)	28.18	1186	0.161	0.161
70	84 (126,129)	28.40	284	0.010	0.010
71	85 (166,178)	28.74	3077	0.862	0.862
72	87 (175,159)	29.04	570	0.151	0.151
73	88 (182,187)	29.20	18368	2.753	2.753
74	89 (128,162)	29.32	711	0.062	0.062
75	90 (183)	29.51	7788	1.221	1.221
76	91 (167)	29.79	114	0.019	0.019
77	92 (185)	30.12	3156	0.364	0.364
78	93 (174,181)	30.51	15518	2.414	2.414
79	94 (177)	30.78	7316	1.279	1.279
80	95 (156,171)	31.09	3386	0.581	0.581
81	96 (157,202)	31.35	2347	0.055	0.055
82	98 (173)	31.53	200	0.023	0.023
83	99 (201)	31.91	1897	0.339	0.339
84	100 (172,204)	32.16	2342	0.466	0.466

85	101 (192,197)	32.45	481	0.101	0.101
86	102 (180)	32.64	32360	4.461	4.461
87	103 (193)	32.90	1980	0.317	0.317
88	104 (191)	33.20	578	0.113	0.113
89	105 (200,169)	33.56	1898	0.303	0.303
90	106 (170)	34.73	9609	0.897	0.897
91	107 (190)	35.01	2514	0.293	0.293
92	108 (198)	35.89	741	0.095	0.095
93	109 (199)	36.12	13919	3.321	3.321
94	110 (196,203)	36.68	14763	3.240	3.240
95	111 (189)	37.86	190	0.024	0.024
96	112 (195)	39.44	5001	0.422	0.422
97	113 (208)	39.98	1009	0.241	0.241
98	114 (207)	40.93	674	0.082	0.082
99	115 (194)	42.36	12561	1.310	1.310
100	116 (205)	43.26	454	0.076	0.076
101	117 (206)	48.52	4687	0.538	0.538
102	118 (209)	54.70	90	0.015	0.015
103	Sum			127.084	127.084



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Sample Name:	CCCS0625B	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	06/25/2009 13:16:58	Extract Volume:	1
Project Name:	GC16_May_2009	Date Processed:	06/25/2009 16:54:08
Sample Set Name:	GC16_QEA_062509	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062209	Current Time:	19:30:22
Run Time:	60 Minutes	Current Date:	06/25/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC16-713-11

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.78	2109	8.172	8.172
2	4 (3)	12.92	664	5.610	5.610
3	5 (4,10)	13.53	1397	2.268	2.268
4	6 (7,9)	14.40	3066	0.747	0.747
5	7 (6)	14.71	2542	1.272	1.272
6	8 (5,8)	14.90	11002	10.184	10.184
7	10 (19)	15.54	826	0.246	0.246
8	13 (12,13)	16.27	544	0.202	0.202
9	14 (15,18)	16.40	10116	3.103	3.103
10	15 (17)	16.49	4929	2.781	2.781
11	16 (24,27)	16.79	983	0.191	0.191
12	17 (16,32)	17.05	8611	3.028	3.028
13	19 (23,34,54)	17.51	135	0.039	0.039
14	20 (29)	17.69	186	0.039	0.039
15	21 (26)	17.81	2174	0.630	0.630
16	22 (25)	17.90	1228	0.252	0.252
17	23 (31)	18.10	13188	3.148	3.148
18	24 (28,50)	18.15	16538	3.159	3.159
19	25 (20,21,33,53)	18.50	11849	3.101	3.101
20	26 (22,51)	18.73	7739	2.143	2.143
21	27 (45)	18.96	2889	0.703	0.703
22	29 (46)	19.24	1151	0.316	0.316
23	31 (52,69,73)	19.53	12462	4.104	4.104
24	32 (43,49)	19.70	10135	1.700	1.700
25	33 (38,47)	19.82	4157	0.512	0.512
26	34 (48,75)	19.88	4308	0.691	0.691
27	36 (35)	20.10	136	0.052	0.052
28	37 (104,44)	20.27	14624	3.219	3.219
29	38 (37,42,59)	20.40	8677	2.339	2.339
30	39 (41,64,71,72)	20.75	16258	2.769	2.769
31	41 (68,96)	20.92	264	0.070	0.070
32	42 (40)	21.02	3675	0.765	0.765
33	43 (57,103)	21.26	143	0.029	0.029

CCCS0625B

1 of 3

Print Date: 06/25/2009  
Nea Lims Version : 4.4.4.4

34	44 (58,67,100)	21.45	519	0.079	0.079
35	45 (63)	21.60	889	0.141	0.141
36	46 (74,94,61)	21.77	8663	1.058	1.058
37	47 (70)	21.90	16542	2.449	2.449
38	48 (66,76,98,80,93,95,	22.02	22524	4.881	4.881
39	49 (55,91,121)	22.32	2117	0.385	0.385
40	50 (56,60)	22.63	14582	2.176	2.176
41	51 (84,92,155)	22.87	4254	1.612	1.612
42	52 (89)	22.96	436	0.075	0.075
43	53 (90,101)	23.13	7915	1.401	1.401
44	54 (79,99,113)	23.32	3753	0.437	0.437
45	55 (119,150)	23.60	197	0.017	0.017
46	56 (78,83,112,108)	23.69	666	0.135	0.135
47	57 (97,152,86)	23.91	3243	0.458	0.458
48	58 (81,87,117,125,115)	24.08	5527	0.933	0.933
49	59 (116,85,111)	24.24	2980	0.398	0.398
50	60 (120,136)	24.36	2770	0.507	0.507
51	61 (77,110,148)	24.49	8740	1.539	1.539
52	63 (82)	24.86	2276	0.338	0.338
53	64 (151)	25.16	7548	1.279	1.279
54	65 (124,135)	25.29	2045	0.214	0.214
55	66 (144)	25.35	1684	0.455	0.455
56	67 (107,109,147)	25.42	452	0.091	0.091
57	68 (123)	25.51	114	0.019	0.019
58	69 (106,118,139,149)	25.60	18481	2.740	2.740
59	71 (114,134,143)	26.01	847	0.138	0.138
60	72 (122,131,133,142)	26.21	166	0.020	0.020
61	73 (146,165,188)	26.51	1736	0.272	0.272
62	74 (105,132,161)	26.64	7730	0.925	0.925
63	75 (153)	26.80	16316	2.014	2.014
64	77 (141)	27.33	5857	1.324	1.324
65	78 (179)	27.40	6710	1.024	1.024
66	79 (137)	27.61	106	0.028	0.028
67	80 (130,176)	27.77	2218	0.181	0.181
68	82 (138,163,164)	28.01	13422	1.881	1.881
69	83 (158,160,186)	28.19	1328	0.170	0.170
70	84 (126,129)	28.41	246	0.008	0.008
71	85 (166,178)	28.74	3167	0.841	0.841
72	87 (175,159)	29.05	621	0.156	0.156
73	88 (182,187)	29.20	18986	2.697	2.697
74	89 (128,162)	29.30	752	0.062	0.062
75	90 (183)	29.51	8004	1.189	1.189
76	91 (167)	29.79	105	0.017	0.017
77	92 (185)	30.12	3210	0.351	0.351
78	93 (174,181)	30.50	15962	2.353	2.353
79	94 (177)	30.78	7430	1.231	1.231
80	95 (156,171)	31.08	3399	0.552	0.552
81	96 (157,202)	31.35	2329	0.051	0.051
82	98 (173)	31.53	210	0.023	0.023
83	99 (201)	31.90	1586	0.269	0.269
84	100 (172,204)	32.14	2169	0.409	0.409

85	101 (192,197)	32.45	398	0.079	0.079
86	102 (180)	32.64	33604	4.390	4.390
87	103 (193)	32.89	2049	0.311	0.311
88	104 (191)	33.21	519	0.097	0.097
89	105 (200,169)	33.56	2099	0.318	0.318
90	106 (170)	34.73	10083	0.892	0.892
91	107 (190)	35.01	2581	0.285	0.285
92	108 (198)	35.89	791	0.096	0.096
93	109 (199)	36.13	14191	3.209	3.209
94	110 (196,203)	36.68	15484	3.220	3.220
95	111 (189)	37.86	309	0.037	0.037
96	112 (195)	39.43	4950	0.396	0.396
97	113 (208)	39.97	1173	0.266	0.266
98	114 (207)	40.92	610	0.071	0.071
99	115 (194)	42.38	13317	1.316	1.316
100	116 (205)	43.24	479	0.076	0.076
101	117 (206)	48.51	4831	0.525	0.525
102	118 (209)	54.67	22	0.004	0.004
103	Sum			125.173	125.173

# QC Sample Raw Data

PCB SAMPLE ANALYSIS DATA SHEET

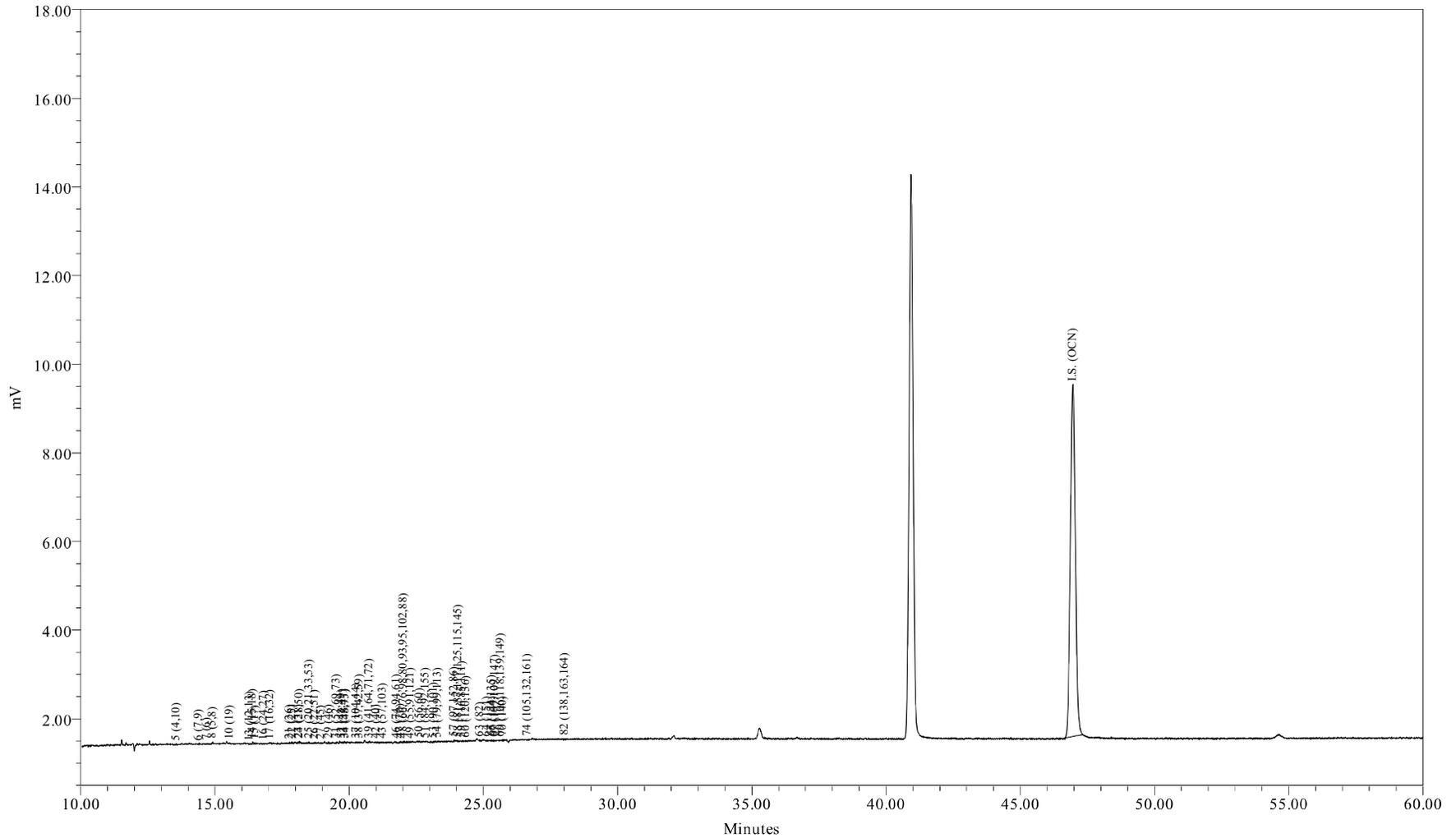
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09060293
ELAP ID No:	11078	LRF ID:	CEBLK-15
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-15(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM08526B
% Moisture:	100	Lab File ID:	GC16-712-5
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	06/24/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	06/24/2009 11:18
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 103159

Percent Recovery (50 - 150 %): 108

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

Visual Aroclor ID: No Aroclor Pattern Detected



Sample Name: AM08526B  
Sample ID: METHOD BLANK  
Date Acquired: 6/24/2009 11:18:11 AM EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-712-5

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 11:18:11  
 Lab Sample ID: AM08526B  
 LRF ID: CEBLK-15  
 Lab File ID: GC16-712-5

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <9.10 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	32.60	37.79
Tri	44.85	45.05
Tetra	0.00	0.00
Penta	13.23	10.38
Hexa	9.32	6.78
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 1.82

Meta + Para Cl / biphenyl Residue = 1.22

Total Cl / biphenyl Residue = 3.03

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 11:18:11  
 Lab Sample ID: AM08526B  
 LRF ID: CEBLK-15  
 Lab File ID: GC16-712-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.78	188.7				0.529	2.19	U
3	12.82	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.56	223.1	63	0.317	1.42	0.134	0.621	J
6	14.40	223.1	5			0.0721	0.219	U
7	14.71	223.1	41			0.158	0.347	U
8	14.91	223.1	71			0.542	2.56	U
9	15.46	223.1				0.294	25.0	U
10	15.55	257.5	31			0.0604	0.102	U
11	16.01	257.5				0.198	25.0	U
12	16.08	223.1				0.306	25.0	U
13	16.30	223.1	20			0.0559	0.0975	U
14	16.41	249.0	116			0.128	0.676	U
15	16.49	257.5	75	0.168	0.652	0.143	0.676	J
16	16.83	257.5	62	0.0542	0.210	0.0374	0.0475	
17	17.05	257.5	48			0.166	0.713	U
19	17.51	267.9				0.128	25.0	U
20	17.69	257.5				0.0108	0.0194	U
21	17.79	257.5	65	0.0954	0.371	0.0606	0.132	J
22	17.88	257.5	110	0.119	0.462	0.0426	0.0585	
23	18.12	257.5	90			0.487	0.753	U
24	18.15	257.5	110			0.211	0.964	U
25	18.50	259.5	34			0.105	0.726	U
26	18.72	258.7	26			0.120	0.530	U
27	18.95	292.0	42			0.0367	0.163	U
28	19.10	257.5				0.375	25.0	U
29	19.24	292.0	81			0.127	0.127	U
30	19.36	257.5				0.120	25.0	U
31	19.53	292.0	45			0.204	0.872	U
32	19.72	292.0	21			0.0978	0.420	U
33	19.83	292.0	86			0.0656	0.183	U
34	19.86	292.0	38			0.0579	0.183	U
35	20.02	292.0				0.205	25.0	U
36	20.10	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.27	292.0	32			0.160	0.786	U
38	20.38	272.4	17			0.115	0.475	U
39	20.75	292.0	87			0.121	0.749	U
41	20.92	326.4				0.115	25.0	U
42	21.02	292.0	20			0.0968	0.172	U
43	21.26	298.9	30			0.152	25.0	U
44	21.44	298.9				0.0225	0.0402	U
45	21.60	292.0				0.0299	0.0384	U
46	21.78	292.0	22			0.0821	0.347	U
47	21.90	292.0	75			0.164	0.621	U
48	22.03	293.5	47			0.243	1.32	U
49	22.29	324.7	16			0.0376	0.0932	U
50	22.62	292.0	25			0.359	0.640	U
51	22.85	326.4	11			0.0888	0.329	U
52	22.97	326.4				0.0384	0.0384	U
53	23.16	326.4	43			0.0691	0.329	U
54	23.31	326.4	36			0.101	0.135	U
55	23.60	326.4				0.00644	0.0102	U
56	23.69	326.4				0.0647	0.0647	U
57	23.91	326.4	105	0.0649	0.199	0.0435	0.102	J
58	24.06	326.4	21			0.0841	0.212	U
59	24.21	326.4	35			0.0484	0.128	U
60	24.35	360.9	23			0.0772	0.137	U
61	24.49	326.4				0.0668	0.389	U
62	24.77	360.9				0.113	25.0	U
63	24.89	326.4	54	0.0250	0.0767	0.0201	0.0804	J
64	25.14	360.9	47			0.0518	0.311	U
65	25.30	350.5	40	0.0154	0.0440	0.0149	0.0530	J
66	25.37	360.9	43	0.0652	0.181	0.0541	0.110	J
67	25.44	336.8	41	0.0490	0.145	0.0348	0.0475	U
68	25.52	326.4				0.125	25.0	U
69	25.66	337.5	51			0.0938	0.731	U
70	25.73	360.9	13			0.0829	25.0	U
71	26.02	347.8				0.0348	0.0369	U
72	26.22	336.8				0.00638	0.0106	U
73	26.52	360.9				0.0320	0.0713	U
74	26.64	347.8	41			0.0721	0.248	U
75	26.81	360.9				0.109	0.538	U
76	26.92	360.9				0.107	25.0	U
77	27.34	360.9				0.0637	0.311	U
78	27.42	395.3				0.0470	0.267	U
79	27.63	360.9				0.0501	0.0501	U
80	27.78	360.9				0.0151	0.0475	U
82	28.03	360.9	38			0.108	0.493	U
83	28.19	360.9				0.0450	0.0457	U
84	28.40	360.9				0.00310	0.00473	U
85	28.75	395.3				0.0677	0.201	U
87	29.06	395.3				0.0156	0.0731	U
88	29.21	395.3				0.102	0.658	U
89	29.34	360.9				0.0199	0.0366	U
90	29.52	395.3				0.0679	0.311	U
91	29.81	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.14	394.3				0.0225	0.0859	U
93	30.51	394.3				0.102	0.585	U
94	30.79	394.3				0.0936	0.311	U
95	31.09	382.2				0.0871	0.144	U
96	31.36	429.8				0.00942	0.0121	U
98	31.52	395.3				0.0133	0.0139	U
99	31.90	429.8				0.0863	0.0863	U
100	32.16	395.3				0.127	0.127	U
101	32.46	429.8				0.217	0.217	U
102	32.65	395.3				0.150	1.11	U
103	32.90	395.3				0.0640	0.0768	U
104	33.20	395.3				0.0374	0.0438	U
105	33.56	429.8				0.0460	0.0786	U
106	34.74	395.3				0.0538	0.234	U
107	35.02	395.3				0.0213	0.0768	U
108	35.90	429.8				0.0324	0.0438	U
109	36.14	429.8				0.116	0.768	U
110	36.69	429.8				0.184	0.786	U
111	37.86	395.3				0.0231	0.0231	U
112	39.45	429.8				0.0368	0.101	U
113	39.97	464.2				0.0438	0.0903	U
114	40.93	464.2				0.0154	0.0340	U
115	42.37	429.8				0.0969	0.329	U
116	43.27	429.8				0.0838	0.0838	U
117	48.49	464.2				0.0384	0.124	U
118	54.65	498.6				0.0126	0.0126	U

Total Concentration = <9.10 ng/L 9.10 32.2 U

Total Nanomoles = 0.004

Average Molecular Weight = 258.7

Number of Calibrated Peaks Found = 48

Internal Standard Retention Time = 46.96 minutes

Internal Standard Peak Area = 103158.7

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 11:18:11  
 Lab Sample ID: AM08526B  
 LRF ID: CEBLK-15  
 Lab File ID: GC16-712-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001		2	-	-
3	12.82	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.56	2:2	004 010	0.2888	2-2; 26	32.596	37.792
6	14.40	2:1	007 009		24; 25	-	-
7	14.71	2:1	006		2-3	-	-
8	14.91	2:1	005 008		23; 2-4	-	-
9	15.46	2:0	014		35	-	-
10	15.55	3:3	019		26-2	-	-
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.30	2:0	012 013		34; 3-4	-	-
14	16.41	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.49	3:2	017	0.3511	24-2	17.251	17.329
16	16.83	3:2	024 027	0.3584	236; 26-3	5.565	5.590
17	17.05	3:2	016 032		23-2; 26-4	-	-
19	17.51	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.69	3:1	029		245	-	-
21	17.79	3:1	026	0.3788	25-3	9.804	9.848
22	17.88	3:1	025	0.3807	24-3	12.229	12.284
23	18.12	3:1	031		25-4	-	-
24	18.15	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.50	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.72	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.95	4:3	045		236-2	-	-
28	19.10	3:0	036		35-3	-	-
29	19.24	4:3	046		23-26	-	-
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.72	4:2	043 049		235-2; 24-25	-	-
33	19.83	4:2	038 047		345; 24-24	-	-
34	19.86	4:2	048 075		245-2; 246-4	-	-
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.10	3:0	035		34-3	-	-
37	20.27	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.38	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.75	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.92	5:4	068 096		24-35; 236-26	-	-
42	21.02	4:2	040		23-23	-	-
43	21.26	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.44	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.60	4:1	063		235-4	-	-
46	21.78	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.90	4:1	070		25-34	-	-
48	22.03	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.29	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.62	4:1	056 060		23-34; 234-4	-	-
51	22.85	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.97	5:3	089		234-26	-	-
53	23.16	5:2	090 101		235-24; 245-25	-	-
54	23.31	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.60	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.69	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.91	5:2 6:4	097 152 086	0.5092	245-23; 2356-26; 2345-2	6.665	5.282
58	24.06	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.21	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.35	6:4	120 136		245-35; 236-236	-	-
61	24.49	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.77	6:3	154		245-246	-	-
63	24.89	5:2	082	0.5300	234-23	2.572	2.038
64	25.14	6:3	151		2356-25	-	-
65	25.30	5:1 6:3	124 135	0.5388	345-25; 235-236	1.586	1.170
66	25.37	6:3	144	0.5402	2346-25	6.702	4.804
67	25.44	5:1 6:3	107 109 147	0.5417	234-35; 235-34; 2356-24	5.030	3.863
68	25.52	5:1	123		345-24	-	-
69	25.66	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.73	6:3	140		234-246	-	-
71	26.02	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.22	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.64	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.81	6:2	153		245-245	-	-
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.34	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.63	6:2	137		2345-24	-	-
80	27.78	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.03	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.19	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.40	6:2	126 129		345-34; 2345-23	-	-
85	28.75	7:3	166 178		23456-4; 2356-235	-	-
87	29.06	7:3	175 159		2346-235; 2345-35	-	-
88	29.21	7:3	182 187		2345-246; 2356-245	-	-
89	29.34	6:2	128 162		234-234; 235-345	-	-
90	29.52	7:3	183		2346-245	-	-
91	29.81	6:1	167		245-345	-	-
92	30.14	7:3	185		23456-25	-	-
93	30.51	7:3	174 181		2345-236; 23456-24	-	-
94	30.79	7:3	177		2356-234	-	-
95	31.09	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.36	8:4	157 202		234-345; 2356-2356	-	-
98	31.52	7:3	173		23456-23	-	-
99	31.90	8:4	201		2346-2356	-	-
100	32.16	7:2	172 204		2345-235; 23456-246	-	-
101	32.46	8:4	192 197		23456-35; 2346-2346	-	-
102	32.65	7:2	180		2345-245	-	-
103	32.90	7:2	193		2356-345	-	-
104	33.20	7:2	191		2346-345	-	-
105	33.56	8:4	200 169		23456-236; 345-345	-	-
106	34.74	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.02	7:2	<b>190</b>		23456-34	-	-
108	35.90	8:3	<b>198</b>		23456-235	-	-
109	36.14	8:3	<b>199</b>		2345-2356	-	-
110	36.69	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.86	7:1	<b>189</b>		2345-345	-	-
112	39.45	8:3	<b>195</b>		23456-234	-	-
113	39.97	9:4	<b>208</b>		23456-2356	-	-
114	40.93	9:4	<b>207</b>		23456-2346	-	-
115	42.37	8:2	<b>194</b>		2345-2345	-	-
116	43.27	8:2	<b>205</b>		23456-345	-	-
117	48.49	9:3	<b>206</b>		23456-2345	-	-
118	54.65	10:4	<b>209</b>		23456-23456	-	-

Concentration = <9.10 ng/L

Total Nanomoles = 0.004

Average Molecular Weight = 258.7

Number of Calibrated Peaks Found = 48

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

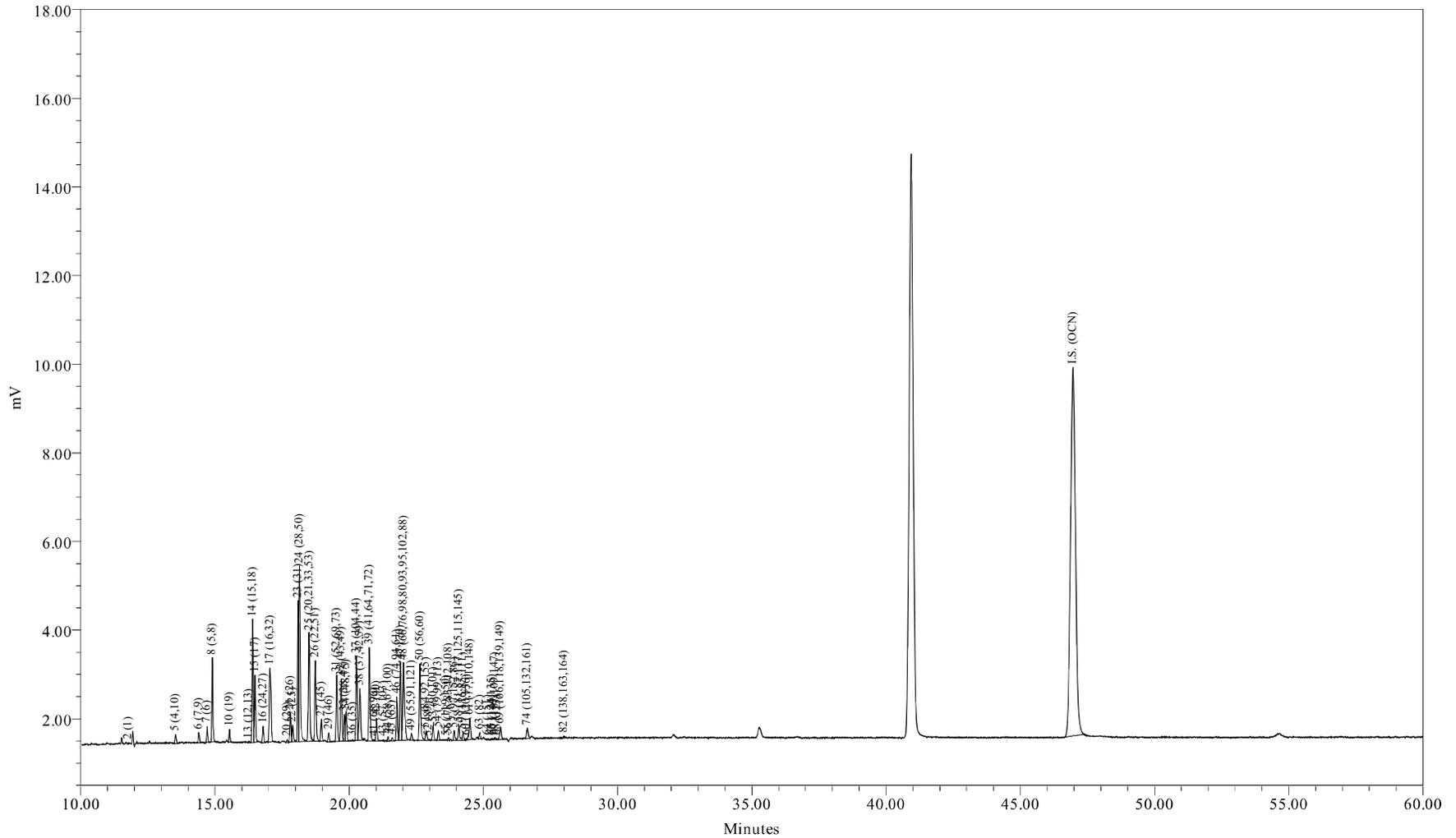
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09060293
ELAP ID No:	11078	LRF ID:	LCS-15
Matrix:	ORGANIC FREE WATER	Client ID:	LCS-15(LAB CONTROL SPIKE)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM08526L
% Moisture:	100	Lab File ID:	GC16-712-6
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	06/24/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	06/24/2009 12:25
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 106512

Percent Recovery (50 - 150 %): 112

SAMPLE TOTAL PCB CONCENTRATION: 185 ng/L

Visual Aroclor ID: PCB Added to Sample



Sample Name: AM08526L  
Sample ID: LAB CONTROL SPIKE  
Date Acquired: 6/24/2009 12:25:50 PM EDT

Sample Amount (L): 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-712-6

Sample Name: AM08526L

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 12:25:50  
 Lab Sample ID: AM08526L  
 LRF ID: LCS-15  
 Lab File ID: GC16-712-6

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 185 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.42	0.58
Di	18.11	21.08
Tri	47.07	47.88
Tetra	28.93	26.08
Penta	5.04	4.05
Hexa	0.44	0.33
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	0.7758	3.04	3.15
A1242	23+24/31+28	23.1507	90.8	93.9
A1254SED	61/100	1.5669	6.15	
A1254BIO	69+75+82/149+153+138	0.7372		2.99
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.45

Meta + Para Cl / biphenyl Residue = 1.68

Total Cl / biphenyl Residue = 3.13

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 12:25:50  
 Lab Sample ID: AM08526L  
 LRF ID: LCS-15  
 Lab File ID: GC16-712-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.78	188.7	31	0.776	4.11	0.529	2.19	J
3	12.82	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.53	223.1	574	4.69	21.0	0.134	0.621	B
6	14.40	223.1	662	0.809	3.63	0.0721	0.219	
7	14.71	223.1	877	2.16	9.70	0.158	0.347	
8	14.90	223.1	4934	22.7	102	0.542	2.56	
9	15.46	223.1				0.294	25.0	U
10	15.54	257.5	696	1.04	4.05	0.0604	0.102	
11	16.01	257.5				0.198	25.0	U
12	16.08	223.1				0.306	25.0	U
13	16.25	223.1	85	0.168	0.751	0.0559	0.0975	
14	16.40	249.0	7620	11.8	47.2	0.128	0.676	
15	16.49	257.5	4355	12.4	48.1	0.143	0.676	B
16	16.79	257.5	1094	1.07	4.16	0.0374	0.0475	B
17	17.05	257.5	7465	13.2	51.4	0.166	0.713	
19	17.51	267.9				0.128	25.0	U
20	17.69	257.5	201	0.212	0.824	0.0108	0.0194	
21	17.82	257.5	1936	2.83	11.0	0.0606	0.132	B
22	17.90	257.5	1266	1.31	5.09	0.0426	0.0585	B
23	18.10	257.5	8674	10.4	40.3	0.487	0.753	
24	18.15	257.5	13291	12.8	49.6	0.211	0.964	
25	18.50	259.5	9153	12.1	46.5	0.105	0.726	
26	18.74	258.7	5895	8.22	31.8	0.120	0.530	
27	18.96	292.0	1452	1.77	6.06	0.0367	0.163	
28	19.10	257.5				0.375	25.0	U
29	19.24	292.0	617	0.855	2.93	0.127	0.127	
30	19.36	257.5				0.120	25.0	U
31	19.53	292.0	4570	7.49	25.6	0.204	0.872	
32	19.70	292.0	4371	3.62	12.4	0.0978	0.420	
33	19.82	292.0	1846	1.12	3.82	0.0656	0.183	
34	19.88	292.0	2044	1.62	5.56	0.0579	0.183	
35	20.02	292.0				0.205	25.0	U
36	20.13	257.5	42			0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.27	292.0	5815	6.35	21.8	0.160	0.786	
38	20.40	272.4	4672	6.30	23.1	0.115	0.475	
39	20.75	292.0	7231	6.15	21.0	0.121	0.749	
41	20.94	326.4	91	0.120	0.369	0.115	25.0	J
42	21.02	292.0	1666	1.76	6.01	0.0968	0.172	
43	21.28	298.9	84			0.152	25.0	U
44	21.45	298.9	312	0.241	0.807	0.0225	0.0402	
45	21.60	292.0	233	0.185	0.634	0.0299	0.0384	
46	21.78	292.0	3200	1.95	6.68	0.0821	0.347	
47	21.91	292.0	5991	4.38	15.0	0.164	0.621	
48	22.02	293.5	7499	8.01	27.3	0.243	1.32	
49	22.32	324.7	542	0.508	1.57	0.0376	0.0932	
50	22.63	292.0	6280	4.68	16.0	0.359	0.640	
51	22.86	326.4	911	1.73	5.31	0.0888	0.329	
52	22.96	326.4	75	0.0656	0.201	0.0384	0.0384	
53	23.13	326.4	1135	0.946	2.90	0.0691	0.329	
54	23.32	326.4	744	0.427	1.31	0.101	0.135	
55	23.63	326.4	37	0.0158	0.0485	0.00644	0.0102	
56	23.70	326.4	168	0.171	0.525	0.0647	0.0647	
57	23.91	326.4	858	0.602	1.84	0.0435	0.102	B
58	24.09	326.4	1357	1.14	3.49	0.0841	0.212	
59	24.24	326.4	747	0.498	1.53	0.0484	0.128	
60	24.39	360.9	80	0.0832	0.230	0.0772	0.137	J
61	24.49	326.4	1828	1.57	4.80	0.0668	0.389	
62	24.77	360.9				0.113	25.0	U
63	24.87	326.4	435	0.312	0.956	0.0201	0.0804	B
64	25.15	360.9	66			0.0518	0.311	U
65	25.31	350.5	63	0.0269	0.0766	0.0149	0.0530	JB
66	25.34	360.9	64	0.0912	0.253	0.0541	0.110	JB
67	25.43	336.8	178	0.185	0.549	0.0348	0.0475	B
68	25.51	326.4	35			0.125	25.0	U
69	25.64	337.5	1150	0.707	2.10	0.0938	0.731	J
70	25.73	360.9				0.0829	25.0	U
71	26.02	347.8				0.0348	0.0369	U
72	26.22	336.8				0.00638	0.0106	U
73	26.52	360.9				0.0320	0.0713	U
74	26.64	347.8	913	0.540	1.55	0.0721	0.248	
75	26.81	360.9				0.109	0.538	U
76	26.92	360.9				0.107	25.0	U
77	27.34	360.9				0.0637	0.311	U
78	27.42	395.3				0.0470	0.267	U
79	27.63	360.9				0.0501	0.0501	U
80	27.78	360.9				0.0151	0.0475	U
82	28.00	360.9	136			0.108	0.493	U
83	28.19	360.9				0.0450	0.0457	U
84	28.40	360.9				0.00310	0.00473	U
85	28.75	395.3				0.0677	0.201	U
87	29.06	395.3				0.0156	0.0731	U
88	29.21	395.3				0.102	0.658	U
89	29.34	360.9				0.0199	0.0366	U
90	29.52	395.3				0.0679	0.311	U
91	29.81	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.14	394.3				0.0225	0.0859	U
93	30.51	394.3				0.102	0.585	U
94	30.79	394.3				0.0936	0.311	U
95	31.09	382.2				0.0871	0.144	U
96	31.36	429.8				0.00942	0.0121	U
98	31.52	395.3				0.0133	0.0139	U
99	31.90	429.8				0.0863	0.0863	U
100	32.16	395.3				0.127	0.127	U
101	32.46	429.8				0.217	0.217	U
102	32.65	395.3				0.150	1.11	U
103	32.90	395.3				0.0640	0.0768	U
104	33.20	395.3				0.0374	0.0438	U
105	33.56	429.8				0.0460	0.0786	U
106	34.74	395.3				0.0538	0.234	U
107	35.02	395.3				0.0213	0.0768	U
108	35.90	429.8				0.0324	0.0438	U
109	36.14	429.8				0.116	0.768	U
110	36.69	429.8				0.184	0.786	U
111	37.86	395.3				0.0231	0.0231	U
112	39.45	429.8				0.0368	0.101	U
113	39.97	464.2				0.0438	0.0903	U
114	40.93	464.2				0.0154	0.0340	U
115	42.37	429.8				0.0969	0.329	U
116	43.27	429.8				0.0838	0.0838	U
117	48.49	464.2				0.0384	0.124	U
118	54.65	498.6				0.0126	0.0126	U

Total Concentration = 185 ng/L

9.10 32.2

Total Nanomoles = 0.705

Average Molecular Weight = 262.0

Number of Calibrated Peaks Found = 58

Internal Standard Retention Time = 46.96 minutes

Internal Standard Peak Area = 106511.6

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090624-ANEA-01  
 Date Acquired: 06/24/2009 12:25:50  
 Lab Sample ID: AM08526L  
 LRF ID: LCS-15  
 Lab File ID: GC16-712-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	0.2509	2	0.420	0.583
3	12.82	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.53	2:2	004 010	0.2881	2-2; 26	2.536	2.978
6	14.40	2:1	007 009	0.3066	24; 25	0.438	0.514
7	14.71	2:1	006	0.3132	2-3	1.171	1.375
8	14.90	2:1	005 008	0.3173	23; 2-4	12.298	14.442
9	15.46	2:0	014		35	-	-
10	15.54	3:3	019	0.3309	26-2	0.565	0.575
11	16.01	3:2	030		246	-	-
12	16.08	2:0	011		3-3	-	-
13	16.25	2:0	012 013	0.3460	34; 3-4	0.091	0.107
14	16.40	2:0 3:2	015 018	0.3492	4-4; 25-2	6.363	6.694
15	16.49	3:2	017	0.3511	24-2	6.699	6.816
16	16.79	3:2	024 027	0.3575	236; 26-3	0.580	0.590
17	17.05	3:2	016 032	0.3631	23-2; 26-4	7.156	7.281
19	17.51	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.69	3:1	029	0.3767	245	0.115	0.117
21	17.82	3:1	026	0.3795	25-3	1.531	1.558
22	17.90	3:1	025	0.3812	24-3	0.709	0.721
23	18.10	3:1	031	0.3854	25-4	5.617	5.715
24	18.15	3:1 4:3	028 050	0.3865	24-4; 246-2	6.909	7.030
25	18.50	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	6.524	6.586
26	18.74	3:1 4:3	022 051	0.3991	23-4; 24-26	4.450	4.506
27	18.96	4:3	045	0.4037	236-2	0.957	0.859
28	19.10	3:0	036		35-3	-	-
29	19.24	4:3	046	0.4097	23-26	0.462	0.415
30	19.36	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073	0.4159	25-25; 246-3; 26-35	4.050	3.634
32	19.70	4:2	043 049	0.4195	235-2; 24-25	1.961	1.759
33	19.82	4:2	038 047	0.4221	345; 24-24	0.604	0.542
34	19.88	4:2	048 075	0.4233	245-2; 246-4	0.878	0.788
35	20.02	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.27	5:4 4:2	104 044	0.4316	246-26; 23-25	3.438	3.085
38	20.40	3:0 4:2	037 042 059	0.4344	34-4; 23-24; 236-3	3.410	3.279
39	20.75	4:2	041 064 071 072	0.4419	234-2; 236-4; 26-34; 25-35	3.325	2.983

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.94	5:4	068 096	0.4459	24-35; 236-26	0.065	0.052
42	21.02	4:2	040	0.4476	23-23	0.950	0.852
43	21.28	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.45	4:1 5:3	058 067 100	0.4568	23-35; 245-3; 246-24	0.131	0.114
45	21.60	4:1	063	0.4600	235-4	0.100	0.090
46	21.78	4:1 5:3	074 094 061	0.4638	245-4; 235-26; 2345	1.056	0.947
47	21.91	4:1	070	0.4666	25-34	2.370	2.127
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.336	3.871
49	22.32	4:1 5:3	055 091 121	0.4753	234-3; 236-24; 246-35	0.275	0.222
50	22.63	4:1	056 060	0.4819	23-34; 234-4	2.533	2.272
51	22.86	5:3 6:4	084 092 155	0.4868	236-23; 235-25; 246-246	0.938	0.753
52	22.96	5:3	089	0.4889	234-26	0.036	0.028
53	23.13	5:2	090 101	0.4925	235-24; 245-25	0.512	0.411
54	23.32	5:2	079 099 113	0.4966	34-35; 245-24; 236-35	0.231	0.185
55	23.63	5:2 6:4	119 150	0.5032	246-34; 236-246	0.009	0.007
56	23.70	5:2	078 083 112 108	0.5047	345-3; 235-23; 2356-3; 2346-3	0.093	0.074
57	23.91	5:2 6:4	097 152 086	0.5092	245-23; 2356-26; 2345-2	0.325	0.261
58	24.09	5:2	081 087 117 125 115 145	0.5130	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.616	0.495
59	24.24	5:2	116 085 111	0.5162	23456; 234-24; 235-35	0.269	0.216
60	24.39	6:4	120 136	0.5194	245-35; 236-236	0.045	0.033
61	24.49	5:2	077 110 148	0.5215	34-34; 236-34; 235-246	0.848	0.681
62	24.77	6:3	154		245-246	-	-
63	24.87	5:2	082	0.5296	234-23	0.169	0.136
64	25.15	6:3	151		2356-25	-	-
65	25.31	5:1 6:3	124 135	0.5390	345-25; 235-236	0.015	0.011
66	25.34	6:3	144	0.5396	2346-25	0.049	0.036
67	25.43	5:1 6:3	107 109 147	0.5415	234-35; 235-34; 2356-24	0.100	0.078
68	25.51	5:1	123		345-24	-	-
69	25.64	5:1 6:3	106 118 139 149	0.5460	2345-3; 245-34; 2346-24; 236-245	0.383	0.297
70	25.73	6:3	140		234-246	-	-
71	26.02	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.22	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.64	5:1 6:3	105 132 161	0.5673	234-34; 234-236; 2346-35	0.292	0.220
75	26.81	6:2	153		245-245	-	-
76	26.92	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.34	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.63	6:2	137		2345-24	-	-
80	27.78	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.00	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.19	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.40	6:2	126 129		345-34; 2345-23	-	-
85	28.75	7:3	166 178		23456-4; 2356-235	-	-
87	29.06	7:3	175 159		2346-235; 2345-35	-	-
88	29.21	7:3	182 187		2345-246; 2356-245	-	-
89	29.34	6:2	128 162		234-234; 235-345	-	-
90	29.52	7:3	183		2346-245	-	-
91	29.81	6:1	167		245-345	-	-
92	30.14	7:3	185		23456-25	-	-
93	30.51	7:3	174 181		2345-236; 23456-24	-	-
94	30.79	7:3	177		2356-234	-	-
95	31.09	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.36	8:4	157 202		234-345; 2356-2356	-	-
98	31.52	7:3	173		23456-23	-	-
99	31.90	8:4	201		2346-2356	-	-
100	32.16	7:2	172 204		2345-235; 23456-246	-	-
101	32.46	8:4	192 197		23456-35; 2346-2346	-	-
102	32.65	7:2	180		2345-245	-	-
103	32.90	7:2	193		2356-345	-	-
104	33.20	7:2	191		2346-345	-	-
105	33.56	8:4	200 169		23456-236; 345-345	-	-
106	34.74	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.02	7:2	<b>190</b>		23456-34	-	-
108	35.90	8:3	<b>198</b>		23456-235	-	-
109	36.14	8:3	<b>199</b>		2345-2356	-	-
110	36.69	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.86	7:1	<b>189</b>		2345-345	-	-
112	39.45	8:3	<b>195</b>		23456-234	-	-
113	39.97	9:4	<b>208</b>		23456-2356	-	-
114	40.93	9:4	<b>207</b>		23456-2346	-	-
115	42.37	8:2	<b>194</b>		2345-2345	-	-
116	43.27	8:2	<b>205</b>		23456-345	-	-
117	48.49	9:3	<b>206</b>		23456-2345	-	-
118	54.65	10:4	<b>209</b>		23456-23456	-	-

Concentration = 185 ng/L

Total Nanomoles = 0.705

Average Molecular Weight = 262.0

Number of Calibrated Peaks Found = 58

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

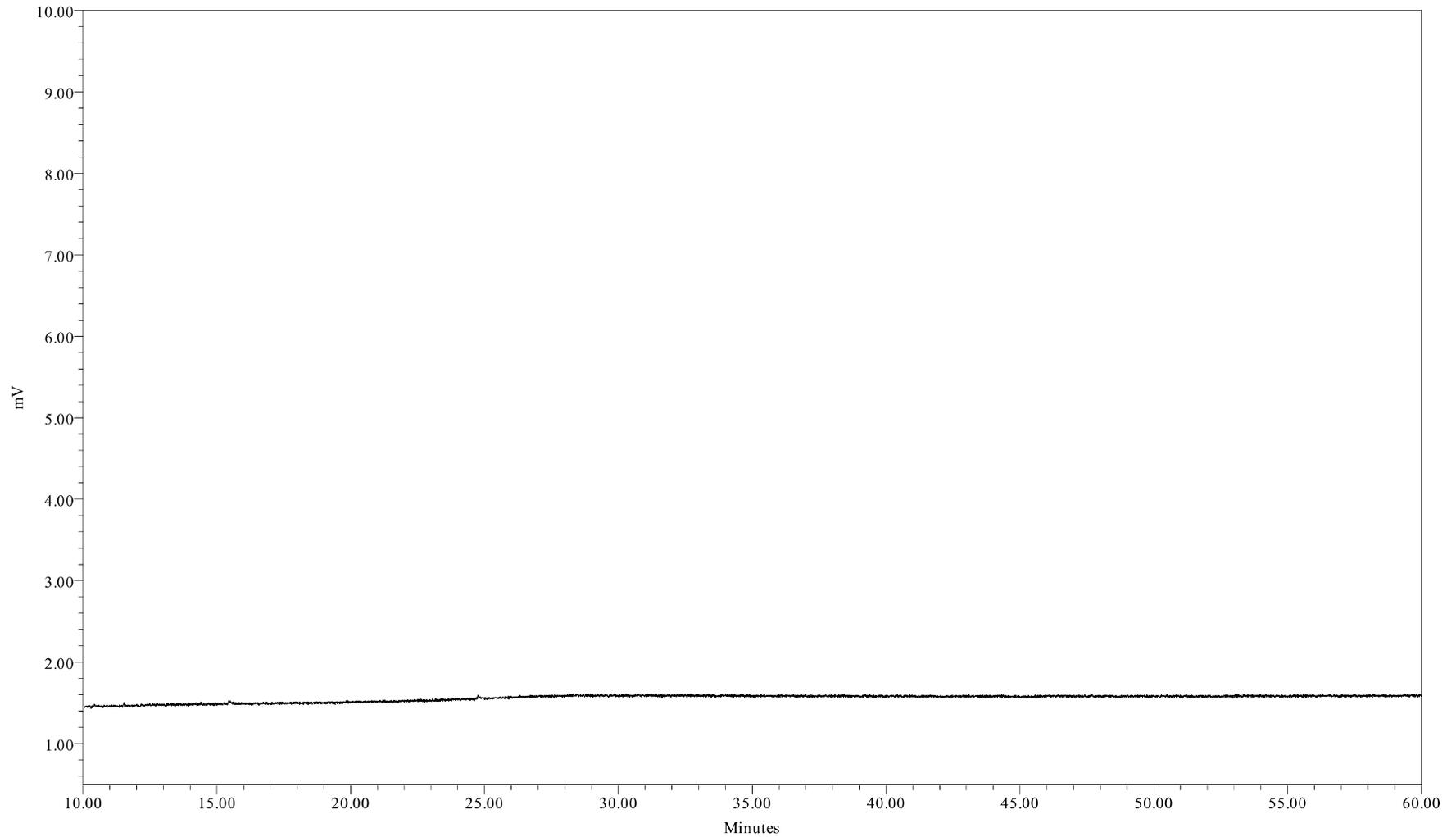
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: 090624B03  
Sample ID: HEXANE BLANK  
Date Acquired: 6/24/2009 9:03:13 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062209  
LIMS File ID: GC16-712-3

Sample Name: 090624B03

1 of 1

# MDL Studies

## Pooled Modified Green Bay Method MDL 1 Liter

Compiled May 2009

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL	
Water Column	PCBs (1 liter)	Total PCB (sum of congeners)	1336-36-3	Modified Green Bay Mass Balance Method (NEA 207_03)	ng/L	9.10	32.2	
		DB-1 Peak:	02	2051-60-7	NEA 207_03	ng/L	0.529	2.19
			03	2051-61-8	NEA 207_03	ng/L	6.63	1000
			04	2051-62-9	NEA 207_03	ng/L	0.355	1.28
			05	13029-08-8 33146-45-1	NEA 207_03	ng/L	0.134	0.621
			06	33284-50-3 34883-39-1	NEA 207_03	ng/L	0.0721	0.219
			07	25569-80-6	NEA 207_03	ng/L	0.158	0.347
			08	16605-91-7 34883-43-7	NEA 207_03	ng/L	0.542	2.56
			09	34883-41-5	NEA 207_03	ng/L	0.294	25.0
			10	38444-73-4	NEA 207_03	ng/L	0.0604	0.102
			11	35693-92-6	NEA 207_03	ng/L	0.198	25.0
			12	2050-67-1	NEA 207_03	ng/L	0.306	25.0
			13	2974-92-7 2974-90-5	NEA 207_03	ng/L	0.0559	0.0975
			14	2050-68-2 37680-65-2	NEA 207_03	ng/L	0.128	0.676
			15	37680-66-3	NEA 207_03	ng/L	0.143	0.676
			16	55702-45-9 38444-76-7	NEA 207_03	ng/L	0.0374	0.047
			17	38444-78-9 38444-77-8	NEA 207_03	ng/L	0.166	0.713
			19	55720-44-0 37680-68-5 15968-05-5	NEA 207_03	ng/L	0.128	25.0
			20	15862-07-4	NEA 207_03	ng/L	0.0108	0.0194
			21	38444-81-4	NEA 207_03	ng/L	0.0606	0.132
			22	55712-37-3	NEA 207_03	ng/L	0.0426	0.0585
			23	16606-02-3	NEA 207_03	ng/L	0.487	0.753
			24	7012-37-5 62796-65-0	NEA 207_03	ng/L	0.211	0.964
			25	38444-84-7 55702-46-0 38444-86-9 41464-41-9	NEA 207_03	ng/L	0.105	0.726
			26	38444-85-8 68194-04-7	NEA 207_03	ng/L	0.120	0.530
			27	70362-45-7	NEA 207_03	ng/L	0.0367	0.163
			28	38444-87-0	NEA 207_03	ng/L	0.375	25.0
			29	41464-47-5	NEA 207_03	ng/L	0.127	0.127
			30	38444-88-1	NEA 207_03	ng/L	0.120	25.0
			31	35693-99-3 60233-24-1 74338-23-1	NEA 207_03	ng/L	0.204	0.872
			32	70362-46-8 41464-40-8	NEA 207_03	ng/L	0.0978	0.420
			33	53555-66-1 2437-79-8	NEA 207_03	ng/L	0.0656	0.183
			34	70362-47-9 32598-12-2	NEA 207_03	ng/L	0.0579	0.183
			35	54230-22-7 33284-54-7	NEA 207_03	ng/L	0.205	25.0
			36	37680-69-6	NEA 207_03	ng/L	0.144	25.0
			37	56558-16-8 41464-39-5	NEA 207_03	ng/L	0.160	0.786
			38	38444-90-5 36559-22-5 74472-33-6	NEA 207_03	ng/L	0.115	0.475
			39	52663-59-9 52663-58-8 41464-46-4 41464-42-0	NEA 207_03	ng/L	0.121	0.749
			41	73575-52-7 73575-54-9	NEA 207_03	ng/L	0.115	25.0
			42	38444-93-8	NEA 207_03	ng/L	0.0968	0.172
			43	70424-67-8 60145-21-3	NEA 207_03	ng/L	0.152	25.0
			44	41464-49-7 73575-53-8 39485-83-1	NEA 207_03	ng/L	0.0225	0.0402

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		45	74472-34-7	NEA 207_03	ng/L	0.0299	0.0384
		46	32690-93-0 73575-55-0 33284-53-6	NEA 207_03	ng/L	0.0821	0.347
		47	32598-11-1	NEA 207_03	ng/L	0.164	0.621
		48	32598-10-0 70362-48-0 60233-25-2 33284-52-5 73575-56-1 38379-99-6 68194-06-9 55215-17-3	NEA 207_03	ng/L	0.243	1.32
		49	74338-24-2 68194-05-8 56558-18-0	NEA 207_03	ng/L	0.0376	0.093
		50	41464-43-1 33025-41-1	NEA 207_03	ng/L	0.359	0.640
		51	52663-60-2 52663-61-3 33979-03-2	NEA 207_03	ng/L	0.0888	0.329
		52	73575-57-2	NEA 207_03	ng/L	0.0384	0.0384
		53	68194-07-0 37680-73-2	NEA 207_03	ng/L	0.0691	0.329
		54	41464-48-6 38380-01-7 68194-10-5	NEA 207_03	ng/L	0.101	0.135
		55	56558-17-9 68194-08-1	NEA 207_03	ng/L	0.00644	0.0102
		56	70362-49-1 60145-20-2 74472-36-9 70362-41-3	NEA 207_03	ng/L	0.0647	0.0647
		57	41464-51-1 68194-09-2 55312-69-1	NEA 207_03	ng/L	0.0435	0.102
		58	70362-50-4 38380-02-8 68194-11-06 74472-39-2 39635-32-0 74472-38-1 74472-40-5	NEA 207_03	ng/L	0.0841	0.212
		59	18259-05-7 65510-45-4	NEA 207_03	ng/L	0.0484	0.128
		60	68194-12-7 38411-22-2	NEA 207_03	ng/L	0.0772	0.137
		61	32598-13-3 38380-03-9 74472-41-6	NEA 207_03	ng/L	0.0668	0.389
		62	60145-22-4	NEA 207_03	ng/L	0.113	25.0
		63	52663-62-4	NEA 207_03	ng/L	0.0201	0.0804
		64	52663-63-5	NEA 207_03	ng/L	0.0518	0.311
		65	70424-70-3 52744-13-5	NEA 207_03	ng/L	0.0149	0.0530
		66	68194-14-9	NEA 207_03	ng/L	0.0541	0.110
		67	70424-68-9 74472-35-8 68194-13-8	NEA 207_03	ng/L	0.0348	0.0475
		68	65510-44-3	NEA 207_03	ng/L	0.125	25.0
		69	70424-69-0 31508-00-6 56030-56-9 38380-04-0	NEA 207_03	ng/L	0.0938	0.731
		70	59291-64-4	NEA 207_03	ng/L	0.0829	25.0
		71	74472-37-0 52704-70-8 68194-15-0	NEA 207_03	ng/L	0.0348	0.0369
		72	76842-07-4 61798-70-7 35694-04-3 41411-61-4	NEA 207_03	ng/L	0.00638	0.0106
		73	51908-16-8 74472-46-1 74487-85-7	NEA 207_03	ng/L	0.0320	0.0713
		74	32598-14-4 38380-05-1 74472-43-8	NEA 207_03	ng/L	0.0721	0.248

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		75	35065-27-1	NEA 207_03	ng/L	0.109	0.538
		76	39635-33-1 59291-65-5 74472-48-3	NEA 207_03	ng/L	0.107	25.0
		77	52712-04-6	NEA 207_03	ng/L	0.064	0.311
		78	52663-64-6	NEA 207_03	ng/L	0.0470	0.267
		79	35694-06-5	NEA 207_03	ng/L	0.0501	0.0501
		80	52663-66-8 52663-65-7	NEA 207_03	ng/L	0.0151	0.0475
		82	35065-28-2 74472-44-9 74472-45-0	NEA 207_03	ng/L	0.108	0.493
		83	74472-42-7 41411-62-5 74472-49-4	NEA 207_03	ng/L	0.0450	0.0457
		84	57465-28-8 55215-18-4	NEA 207_03	ng/L	0.00310	0.00473
		85	41411-63-6 52663-67-9	NEA 207_03	ng/L	0.0677	0.201
		87	40186-70-7 39635-35-3	NEA 207_03	ng/L	0.0156	0.0731
		88	60145-23-5 52663-68-0	NEA 207_03	ng/L	0.102	0.658
		89	38380-07-3 39635-34-2	NEA 207_03	ng/L	0.0199	0.0366
		90	52663-69-1	NEA 207_03	ng/L	0.0679	0.311
		91	52663-72-6	NEA 207_03	ng/L	0.0348	0.0348
		92	52712-05-7	NEA 207_03	ng/L	0.0225	0.0859
		93	38411-25-5 74472-47-2	NEA 207_03	ng/L	0.102	0.585
		94	52663-70-4	NEA 207_03	ng/L	0.0936	0.311
		95	38380-08-4 52663-71-5	NEA 207_03	ng/L	0.0871	0.144
		96	69782-90-7 2136-99-4	NEA 207_03	ng/L	0.00942	0.0121
		98	68194-16-1	NEA 207_03	ng/L	0.0133	0.0139
		99	40186-71-8	NEA 207_03	ng/L	0.0863	0.0863
		100	52663-74-8 74472-52-9	NEA 207_03	ng/L	0.127	0.127
		101	74472-51-8 33091-17-7	NEA 207_03	ng/L	0.217	0.217
		102	35065-29-3	NEA 207_03	ng/L	0.150	1.11
		103	69782-91-8	NEA 207_03	ng/L	0.0640	0.0768
		104	74472-50-7	NEA 207_03	ng/L	0.0374	0.0438
		105	52663-73-7 32774-16-6	NEA 207_03	ng/L	0.0460	0.0786
		106	35065-30-6	NEA 207_03	ng/L	0.0538	0.234
		107	41411-64-7	NEA 207_03	ng/L	0.0213	0.0768
		108	68194-17-2	NEA 207_03	ng/L	0.0324	0.0438
		109	52663-75-9	NEA 207_03	ng/L	0.116	0.768
		110	42740-50-1 52663-76-0	NEA 207_03	ng/L	0.184	0.786
		111	39635-31-9	NEA 207_03	ng/L	0.0231	0.0231
		112	52663-78-2	NEA 207_03	ng/L	0.0368	0.101
		113	52663-77-1	NEA 207_03	ng/L	0.0438	0.0902
		114 (surrogate)	52663-79-3	NEA 207_03	ng/L	0.0154	0.0340
		115	35694-08-7	NEA 207_03	ng/L	0.0969	0.329
		116	74472-53-0	NEA 207_03	ng/L	0.0838	0.084
		117	40186-72-9	NEA 207_03	ng/L	0.0384	0.124
		118	2051-24-3	NEA 207_03	ng/L	0.0126	0.0126

Note:

\*\* - Peak 114 corresponds to IUPAC 207, which is the surrogate.

PCB SAMPLE DATA SUMMARY PACKAGE FOR:

ANCHOR QUANTITATIVE ENVIRONMENTAL ANALYSIS, LLC  
305 WEST GRAND AVENUE  
MONTVALE, NEW JERSEY 07645

TOTAL PCB: GREEN BAY METHOD (NE207\_03.DOC)

DATE: JULY 27, 2009-B

LRF: 09070314

PROVIDED BY : NORTHEAST ANALYTICAL, INC.  
2190 TECHNOLOGY DRIVE  
SCHENECTADY, NEW YORK 12308  
518-346-4592



TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
CASE NARRATIVE .....	4
SAMPLE CHAIN OF CUSTODY .....	7
INTERNAL SAMPLE TRACKING RECORD .....	9
SURROGATE RECOVERY SUMMARY .....	12
LABORATORY CONTROL SPIKE SUMMARY .....	28
METHOD BLANK SUMMARY .....	30
SAMPLE ANALYSIS DATA .....	32
SAMPLE GC INJECTION LOG.....	135
STANDARDS SUMMARY TABLES .....	143
CALIBRATION COMPONENT SUMMARY TABLES .....	198
STANDARDS RAW DATA .....	202
QC SAMPLE RAW DATA .....	291
MDL STUDIES .....	311

# Case Narrative

August 07, 2009

## CASE NARRATIVE

This data package (NEA SDG ID: 09070314) consists of 6 water samples received on 07/27/2009. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AM11300	WFF-LOC5-090727-BT002	07/27/2009 10:32
AM11301	WFF-SCHU-090727-BT001	07/27/2009 11:11
AM11302	WFF-THIS-090727-BT001	07/27/2009 09:36
AM11303	WFF-TIDA-090727-BT001	07/27/2009 09:38
AM11304	WFF-WAFA-090727-BT001	07/27/2009 11:51
AM11305	WFF-WAFO-090727-BT001	07/27/2009 12:21

### Sample Delivery and Receipt Conditions

- (1.) Northeast Analytical provided sample pickup service on 07/27/2009.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 6.7 degrees Celsius, which exceeds temperature limits. Samples were collected and received at the laboratory on the same day. Ice was present in the cooler. Please see Chain of Custody for details.
- (4.) Chris Yates from AQEA requested a turn around time of 3 weeks on these samples.

### Total PCBs by Green Bay Method (1L)

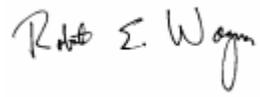
Analysis for Total PCBs was performed by NEA SOP NE207\_03. Samples were extracted by USEPA SW-846 Method 3535 Solid Phase Extraction. One-liter water samples were extracted by NEA SOP NE178\_03. The following technical and administrative items were noted for the analysis:

- (1.) Note: Hudson River Bias Correction applied (v09/23/2004) to GC Column peaks 5, 8, and 14 (which are comprised of congeners IUPAC 4 and 10; IUPAC 5 and 8; and IUPAC 15 and 18, respectively). Please see SOP NE207\_03 for details.
- (2.) Peak 15, Peak 21, Peak 22, Peak 27, Peak 32, Peak 33, Peak 34, Peak 5, Peak 52, Peak 57, Peak 65, and Peak 66 were observed in the Method Blank sample. All associated positive sample concentration results have been flagged (B) to denote the observed contamination.
- (3.) Samples (NEA ID: AM11300, AM11301, AM11302 and AM11303) required additional analysis at a dilution for Peak 5, Peak 10, and Peak 16 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a NEA ID suffix of DL1. The concentration for Peak 5, Peak 10, and Peak 16 are included in the original analysis to provide the correct PCB total concentration. The dilution for AM11301 was re-analyzed due to GC vial pattern and has a suffix of DL1RR1.
- (4.) Samples (NEA ID: AM11304 and AM11305) required additional analysis at a dilution for Peak 5, and Peak 10 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a NEA ID suffix of DL1. The concentration for Peak 5, and Peak 10 are included in the original analysis to provide the correct PCB total concentration.

### Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the PQL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,

A handwritten signature in black ink that reads "Rob E. Wagner". The signature is written in a cursive style with a large, stylized "W" and a long, sweeping underline.

Robert E. Wagner  
Laboratory Director & Founder

# Sample Chain Of Custody



305 West Grand Avenue Montvale, NJ 07645 PH: 201-930-9890

Client: General Electric Company

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC090727-BNEA-01

Sample Custodian: JR

Lab: NEA

COC Sample Number	Field Sample ID	QA/QC	MS	MSD	LD	Matrix**	Date Collected	Time Collected	Media*	# Containers	4degC									
											CS PCBs NE207_03									
001	WFF-LOC5-090727-BT002	ENV	N	N	N	W	07/27/2009	10:32	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM11300							
002	WFF-SCHU-090727-BT001	ENV	N	N	N	W	07/27/2009	11:11	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM11301							
003	WFF-THIS-090727-BT001	ENV	N	N	N	W	07/27/2009	09:36	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM11302							
004	WFF-TIDA-090727-BT001	ENV	N	N	N	W	07/27/2009	09:38	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM11303							
005	WFF-WAFA-090727-BT001	ENV	N	N	N	W	07/27/2009	11:51	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM11304							
006	WFF-WAFO-090727-BT001	ENV	N	N	N	W	07/27/2009	12:21	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM11305							

Comments: Cooler Temp > 6.7°C

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature: <i>[Signature]</i>					
Print Name: John Poole	Print Name: MICHAEL ANAGGI	Print Name: MICHAEL ANAGGI	Print Name: K. Roberts	Print Name:	Print Name:
Company: AQ	Company: NEA	Company: NEA	Company: NEA	Company:	Company:
Date/Time: 7/27/09 13:40	Date/Time: 7-27-09 16:30	Date/Time: 7-27-09 17:30	Date/Time: 7/27/09 17:30	Date/Time:	Date/Time:

Date Printed: 7/27/2009

\* S = SEDIMENT, W = WATER \*\* T = Total, D = Dissolved, R = Residue  
 \*\*\* Air Tight Container; preserved at lab if not analyzed within 48 hrs.

# Internal Sample Tracking Record

CONGENER AQUEOUS EXTRACTION LOG



**Prep Date: 07/27/09**

**Batch ID: 8679**

Initial for required Clean Up Steps

	Prep ID	NEA Sample ID	Alt Sample ID	Client	Extraction Type	Matrix	Sample Amount (g or mL)	TS %	Final Ext. Vol (mL)	Date Ext (MM/DD)	Extract Time On	Extract Time Off	Date Conc (MM/DD)	Initial for required Clean Up Steps			Cell / Unit #	Job	pH	Comments	
														RJW	Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)					RJW
1	83922	CEBLK-99	AM11284B	GE	SPE-1L	Water	1000	N/A	5	07/27	NA	NA	07/27	07/27	NA	07/27	07/27	R7	E CON1L	5	
2	83923	LCS-99	AM11284L	GE	SPE-1L	Water	1000	N/A	5	07/27	NA	NA	07/27	07/27	NA	07/27	07/27	R8	E CON1L	5	
3	84003	09070314-01	AM11300	GE	SPE-1L	Water	1060	100	5	07/27	NA	NA	07/27	07/27	NA	07/27	07/27	R7	E CON1L	5	
4	84004	09070314-02	AM11301	GE	SPE-1L	Water	1040	100	5	07/27	NA	NA	07/27	07/27	NA	07/27	07/27	R6	E CON1L	5	
5	84005	09070314-03	AM11302	GE	SPE-1L	Water	970	100	5	07/27	NA	NA	07/27	07/27	NA	07/27	07/27	R5	E CON1L	5	
6	84006	09070314-04	AM11303	GE	SPE-1L	Water	1060	100	5	07/27	NA	NA	07/27	07/27	NA	07/27	07/27	R3	E CON1L	5	
7	84007	09070314-05	AM11304	GE	SPE-1L	Water	1060	100	5	07/27	NA	NA	07/27	07/27	NA	07/27	07/27	R2	E CON1L	5	
8	84008	09070314-06	AM11305	GE	SPE-1L	Water	1050	100	5	07/27	NA	NA	07/27	07/27	NA	07/27	07/27	R1	E CON1L	5	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	050815	NA		b	b	..	b	..	..	..
Sulfuric Acid (Water Lab)	E49039	NA		b	b	..	b	..	..	..
10% Florisil (SPE only)current	090304F	NA		..	..	..	b	..	..	..
Aroclor 1242 @ 1.00PPM in Acetone	041409B27P21C	200	1.0	..	b	..	..	..	..	..
Acetone (current)	CY140	NA		b	b	..	b	..	..	..
Nona @ 0.2ppm in Acetone	042309B27P38A1-10	500	0.2	b	b	..	b	..	..	..
Hexane (current)	CZ294	NA		b	b	..	b	..	..	..
Speedisk (current)	H03N27	NA		b	b	..	b	..	..	..
Dichloromethane (current)	CZ377	NA		b	b	..	b	..	..	..
10% Florisil (CSGB only)	090618F	NA		b	b	..	..	..	..	..
1:1 Sulfuric Acid (SPE only) current	090626A	NA		b	b	..	b	..	..	..
Methanol (current)	49107	NA		b	b	..	b	..	..	..

SPIKED BY: Tara Snay

WITNESSED BY: Kyle Wray

SIGNATURE: *Tara Snay*

SIGNATURE: *Kyle Wray*

# CONGENER AQUEOUS SCREEN SHEET

Batch ID: 8679

Prepared by: Robert Wilson

NEA Sample ID	Alt Sample ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Dilution Sequence	Final Multiplier	
CEBLK-99	AM11284B	Water	07/27/09	1000	5	NA	NA	NA	5x	
LCS-99	AM11284L	Water	07/27/09	1000	5	NA	NA	NA	5x	
09070314-01	AM11300	Water	07/27/09	1060	5	NA		0.1 mL → 1 mL	5x, 50x	
09070314-02	AM11301	Water	07/27/09	1040	5	NA				
09070314-03	AM11302	Water	07/27/09	970	5	NA				
09070314-04	AM11303	Water	07/27/09	1060	5	NA				
09070314-05	AM11304	Water	07/27/09	1060	5	NA				
09070314-06	AM11305	Water	07/27/09	1050	5	NA				

Solvent, Surrogate, Spike, and Acid Information      B=Blank, L=Lab Control Spike, LD=Lab Control Spike Duplicate, S=Sample, D=Duplicate, M=Matrix Spike, K=Matrix Spike Duplicate

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Mercury	050815	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (SPE only)current	090304F	NA		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone	041409B27P21C	200	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (current)	CY140	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone	042309B27P38A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane (current)	CZ294	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk (current)	H03N27	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane (current)	CZ377	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (CSGB only)	090618F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only)	090626A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol (current)	49107	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NA  
8/1/09

COMMENTS: \_\_\_\_\_

# Surrogate % Recovery Summary

## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Lab Name: Northeast Analytical, Inc.

SDG No: 09070314

ELAP ID No: 11078

Init. Calib. Date(s): 6/24/2009,6/25/2009

GC Column (1): PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

Instrument ID: GC25

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS:							
IUPAC 207: <u>40.64</u>							
	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)
01	ICAL 6.25 ng/mL	ICAL0624A	GC25-94-3	06/24/2009 21:04:40			
02	ICAL 12.5 ng/mL	ICAL0624B	GC25-94-4	06/24/2009 22:10:21			
03	ICAL 125 ng/mL	ICAL0624C	GC25-94-5	06/24/2009 23:15:52			
04	ICAL 314 ng/mL	ICAL0624D	GC25-94-6	06/25/2009 00:21:22			
05	ICAL 627 ng/mL	ICAL0624E	GC25-94-7	06/25/2009 01:26:52			
06	SUP CONG STD 200/5 ng/mL	SC0624A	GC25-94-9	06/25/2009 03:37:51			
07	Surr Std (207) 2.0 ng/mL	SS0624A	GC25-94-10	06/25/2009 04:43:20			
08	Surr Std (207) 20.0 ng/mL	SS0624B	GC25-94-11	06/25/2009 05:48:49			
09	Surr TCMX/DCBP 5/50 ppb	TD0625A	GC25-94-17	06/25/2009 22:07:20			
10	HEXANE BLANK	090727B02	GC25-128-2	07/27/2009 12:08:25			
11	CCC Std 122 ng/mL	CCCS0727A	GC25-128-3	07/27/2009 13:14:01			
12	CEBLK-99(METHOD BLANK)	AM11284B	GC25-128-4	07/27/2009 14:19:36	40.63	-0.01	91.9
13	LCS-99(LAB CONTROL SPIKE)	AM11284L	GC25-128-5	07/27/2009 15:25:18	40.64	0.00	90.2
14	CCC Std 122 ng/mL	CCCS0727B	GC25-128-10	07/27/2009 20:53:03			
15	CCC Std 122 ng/mL	CCCS0727C	GC25-128-18	07/28/2009 05:44:06			
16	WFF-LOC5-090727-BT002	AM11300	GC25-128-21	07/28/2009 09:00:30	40.63	-0.01	76.5
17	WFF-LOC5-090727-BT002	AM11300DL1	GC25-128-22	07/28/2009 10:05:59	40.63	-0.01	83.9
18	CCC Std 122 ng/mL	CCCS0728A	GC25-128-23	07/28/2009 11:11:30			
19	CCC Std 122 ng/mL	CCCS0728B	GC25-129-7	07/28/2009 18:50:12			
20	WFF-SCHU-090727-BT001	AM11301	GC25-129-8	07/28/2009 19:55:43	40.62	-0.02	78.4
21	WFF-THIS-090727-BT001	AM11302	GC25-129-10	07/28/2009 22:06:46	40.62	-0.02	74.9
22	WFF-THIS-090727-BT001	AM11302DL1	GC25-129-11	07/28/2009 23:12:14	40.63	-0.01	81.6
23	WFF-TIDA-090727-BT001	AM11303	GC25-129-12	07/29/2009 00:17:44	40.64	0.00	73.0
24	WFF-TIDA-090727-BT001	AM11303DL1	GC25-129-13	07/29/2009 01:23:10	40.62	-0.02	80.2
25	WFF-WAFA-090727-BT001	AM11304	GC25-129-14	07/29/2009 02:28:39	40.63	-0.01	83.7
26	WFF-WAFA-090727-BT001	AM11304DL1	GC25-129-15	07/29/2009 03:34:06	40.62	-0.02	92.3
27	WFF-WAFO-090727-BT001	AM11305	GC25-129-16	07/29/2009 04:39:33	40.63	-0.01	76.3
28	CCC Std 122 ng/mL	CCCS0728C	GC25-129-17	07/29/2009 05:45:14			
29	WFF-WAFO-090727-BT001	AM11305DL1	GC25-129-18	07/29/2009 06:50:40	40.63	-0.01	87.5
30	CCC Std 122 ng/mL	CCCS0728D	GC25-129-19	07/29/2009 07:56:06			
31	WFF-SCHU-090727-BT001	AM11301DL1RR1	GC25-129-21	07/29/2009 10:07:03	40.63	-0.01	88.6
32	CCC Std 122 ng/mL	CCCS0729A	GC25-130-5	07/29/2009 19:00:28			



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Sample Name:	AM11284B	Sample Amount:	1.000 L
Sample ID:	METHOD BLANK	Dilution:	5
Date Acquired:	07/27/2009 14:19:36	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/27/2009 22:27:47
Sample Set Name:	GC25_072709	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_062409	Current Time:	11:15:06
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-128-4

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.63	122959	18.375	91.9
2	I.S. (OCN)	46.52	137121	3.636	



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Sample Name:	AM11284L	Sample Amount:	1.000 L
Sample ID:	LAB CONTROL SPIKE	Dilution:	5
Date Acquired:	07/27/2009 15:25:18	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/27/2009 21:24:41
Sample Set Name:	GC25_072709	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_062409	Current Time:	11:15:06
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-128-5

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.64	113229	18.046	90.2
2	I.S. (OCN)	46.52	128568	3.636	

AM11284L

1 of 1

Print Date: 8/1/2009  
Nea Lims Version : 4.4.4.5



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Sample Name:	AM11300	Sample Amount:	1.060 L
Sample ID:	WFF-LOC5-090727-BT002	Dilution:	5
Date Acquired:	07/28/2009 09:00:30	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/28/2009 11:43:08
Sample Set Name:	GC25_072709c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_062409	Current Time:	11:15:06
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-128-21

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.63	124090	15.300	76.5
2	I.S. (OCN)	46.51	166196	3.854	



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Sample Name:	AM11300DL1	Sample Amount:	1.060 L
Sample ID:	WFF-LOC5-090727-BT002	Dilution:	50
Date Acquired:	07/28/2009 10:05:59	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/28/2009 11:43:12
Sample Set Name:	GC25_072709c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_062409	Current Time:	11:15:06
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-128-22

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.63	11401	1.678	83.9
2	I.S. (OCN)	46.51	139211	0.385	



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Sample Name:	AM11301	Sample Amount:	1.040 L
Sample ID:	WFF-SCHU-090727-BT001	Dilution:	5
Date Acquired:	07/28/2009 19:55:43	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/29/2009 08:19:03
Sample Set Name:	GC25_072809	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_062409	Current Time:	11:15:06
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-129-8

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.62	110000	15.678	78.4
2	I.S. (OCN)	46.52	143772	3.781	



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Sample Name:	AM11302	Sample Amount:	0.970 L
Sample ID:	WFF-THIS-090727-BT001	Dilution:	5
Date Acquired:	07/28/2009 22:06:46	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/31/2009 13:50:18
Sample Set Name:	GC25_072809	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062409	Current Time:	11:15:07
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-129-10

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.62	111264	14.970	74.9
2	I.S. (OCN)	46.51	152297	3.527	



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Sample Name:	AM11302DL1	Sample Amount:	0.970 L
Sample ID:	WFF-THIS-090727-BT001	Dilution:	50
Date Acquired:	07/28/2009 23:12:14	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/29/2009 08:19:23
Sample Set Name:	GC25_072809	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_062409	Current Time:	11:15:07
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-129-11

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.63	11299	1.632	81.6
2	I.S. (OCN)	46.51	141853	0.353	



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Sample Name:	AM11303	Sample Amount:	1.060 L
Sample ID:	WFF-TIDA-090727-BT001	Dilution:	5
Date Acquired:	07/29/2009 00:17:44	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/31/2009 13:50:57
Sample Set Name:	GC25_072809	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062409	Current Time:	11:15:07
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-129-12

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.64	102267	14.596	73
2	I.S. (OCN)	46.51	143573	3.854	



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Sample Name:	AM11303DL1	Sample Amount:	1.060 L
Sample ID:	WFF-TIDA-090727-BT001	Dilution:	50
Date Acquired:	07/29/2009 01:23:10	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/29/2009 08:19:37
Sample Set Name:	GC25_072809	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_062409	Current Time:	11:15:07
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-129-13

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.62	11492	1.603	80.2
2	I.S. (OCN)	46.51	146872	0.385	



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Sample Name:	AM11304	Sample Amount:	1.060 L
Sample ID:	WFF-WAFA-090727-BT001	Dilution:	5
Date Acquired:	07/29/2009 02:28:39	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/31/2009 13:51:20
Sample Set Name:	GC25_072809	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062409	Current Time:	11:15:07
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-129-14

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.63	110243	16.732	83.7
2	I.S. (OCN)	46.51	135012	3.854	



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Sample Name:	AM11304DL1	Sample Amount:	1.060 L
Sample ID:	WFF-WAFA-090727-BT001	Dilution:	50
Date Acquired:	07/29/2009 03:34:06	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/29/2009 08:19:47
Sample Set Name:	GC25_072809	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_062409	Current Time:	11:15:07
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-129-15

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.62	13504	1.845	92.3
2	I.S. (OCN)	46.52	149955	0.385	



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Sample Name:	AM11305	Sample Amount:	1.050 L
Sample ID:	WFF-WAFO-090727-BT001	Dilution:	5
Date Acquired:	07/29/2009 04:39:33	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/31/2009 13:52:32
Sample Set Name:	GC25_072809	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062409	Current Time:	11:15:07
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-129-16

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.63	112796	15.267	76.3
2	I.S. (OCN)	46.52	151397	3.818	



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Sample Name:	AM11305DL1	Sample Amount:	1.050 L
Sample ID:	WFF-WAFO-090727-BT001	Dilution:	50
Date Acquired:	07/29/2009 06:50:40	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/29/2009 08:20:13
Sample Set Name:	GC25_072809	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_062409	Current Time:	11:15:07
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-129-18

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.63	13073	1.749	87.5
2	I.S. (OCN)	46.51	153124	0.382	



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Sample Name:	AM11301DL1RR1	Sample Amount:	1.040 L
Sample ID:	WFF-SCHU-090727-BT001	Dilution:	50
Date Acquired:	07/29/2009 10:07:03	Extract Volume:	5 mL
Project Name:	GC25_Mar_2009	Date Processed:	07/29/2009 12:08:47
Sample Set Name:	GC25_072809a	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_062409	Current Time:	11:15:07
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC25-129-21

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.63	11879	1.772	88.6
2	I.S. (OCN)	46.51	137379	0.378	

# Laboratory Control Spike Summary

## PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Northeast Analytical, Inc.

ELAP ID No: 11078

SDG No: 09070314

LCS ID: LCS-99

Blank Sample ID: CEBLK-99

LCS File ID: GC25-128-5

Method Blank File ID: GC25-128-4

LCS Inj Date: 07/27/2009 15:25:18

Method Blank Inj Date: 07/27/2009 14:19:36

LCS NEA ID No: AM11284L

Method Blank NEA ID No: AM11284B

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS PERCENT RECOVERY #	QC LIMITS PERCENT RECOVERY
Total PCBs	200	191	95.3	60.0-140

# Column to be used to flag recovery values.

\* Value outside of QC limits.

Comments: \_\_\_\_\_  
 \_\_\_\_\_

# Method Blank Summary

**PCB METHOD BLANK SUMMARY**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09070314</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>CEBLK-99</u>
Matrix:	<u>ORGANIC FREE WATER</u>	Client ID:	<u>CEBLK-99(METHOD BLANK)</u>
Sample Wt(Dry)/Vol:	<u>1000 mL</u>	Lab Sample ID:	<u>AM11284B</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC25-128-4</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>07/27/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>07/27/2009 14:19</u>
Analytical SOP Reference:	<u>SOP NE207_03.DOC</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm</u>		

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

# Sample Analysis Data

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 1060 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

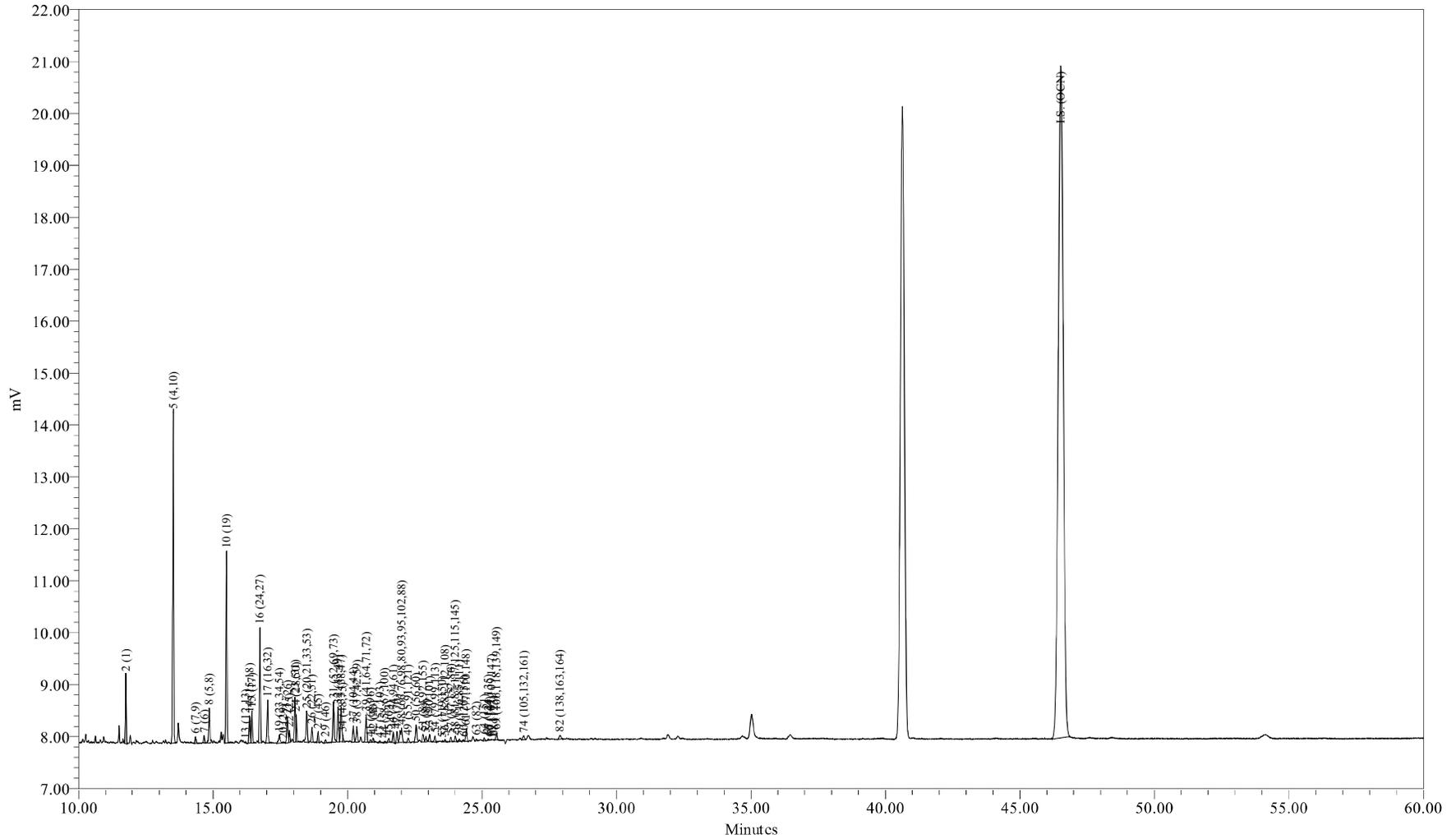
SDG No: 09070314  
LRF ID: 09070314-01  
Client ID: WFF-LOC5-090727-BT002  
Lab Sample ID: AM11300  
Lab File ID: GC25-128-21  
Date Received: 07/27/2009  
Date Extracted: 07/27/2009  
Date/Time Analyzed: 07/28/2009 09:00  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 166196

Percent Recovery (50 - 150 %): 103

SAMPLE TOTAL PCB CONCENTRATION: 242 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM11300  
Sample ID: WFF-LOC5-090727-BT002  
Date Acquired: 7/28/2009 9:00:30 AM EDT

Sample Amount (L) : 1.0600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-128-21

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 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090727-BT002  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 09:00:30  
 Lab Sample ID: AM11300  
 LRF ID: 09070314-01  
 Lab File ID: GC25-128-21

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 242 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	21.42	25.43
Di	52.82	53.01
Tri	18.59	16.17
Tetra	5.53	4.27
Penta	1.55	1.06
Hexa	0.09	0.06
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	51.8278	92.6	93.1
A1242	23+24/31+28	3.6465	6.51	6.55
A1254SED	61/100	0.5187	0.926	
A1254BIO	69+75+82/149+153+138	0.2234		0.401
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.75

Meta + Para Cl / biphenyl Residue = 0.28

Total Cl / biphenyl Residue = 2.03

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090727-BT002  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 09:00:30  
 Lab Sample ID: AM11300  
 LRF ID: 09070314-01  
 Lab File ID: GC25-128-21

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.76	188.7	2480	51.8	275	0.529	2.19	
3	12.78	188.7				6.63	1000	U
4	12.89	188.7				0.355	1.28	U
5	13.52	223.1	1796	123	553	1.34	6.21	B
6	14.35	223.1	340	0.392	1.76	0.0721	0.219	
7	14.67	223.1	317	0.775	3.48	0.158	0.347	
8	14.86	223.1	1726	2.72	12.2	0.542	2.56	
9	15.42	223.1				0.294	25.0	U
10	15.50	257.5	852	16.8	65.4	0.604	1.02	
11	15.97	257.5				0.198	25.0	U
12	16.03	223.1				0.306	25.0	U
13	16.20	223.1	28			0.0559	0.0975	U
14	16.36	249.0	1473	2.63	10.6	0.128	0.676	
15	16.45	257.5	1629	5.09	19.8	0.143	0.676	B
16	16.74	257.5	517	6.27	24.3	0.374	0.475	
17	17.03	257.5	2391	4.08	15.8	0.166	0.713	
19	17.46	267.9	601	0.827	3.09	0.128	25.0	J
20	17.61	257.5	107	0.0956	0.371	0.0108	0.0194	
21	17.76	257.5	1441	1.89	7.35	0.0606	0.132	B
22	17.84	257.5	680	0.659	2.56	0.0426	0.0585	B
23	18.04	257.5	2521	2.58	10.0	0.487	0.753	
24	18.09	257.5	1292	1.06	4.13	0.211	0.964	
25	18.48	259.5	1966	2.35	9.06	0.105	0.726	
26	18.68	258.7	806	1.04	4.01	0.120	0.530	
27	18.91	292.0	587	0.694	2.38	0.0367	0.163	B
28	19.04	257.5				0.375	25.0	U
29	19.18	292.0	166	0.232	0.794	0.127	0.127	
30	19.31	257.5				0.120	25.0	U
31	19.48	292.0	2381	3.64	12.5	0.204	0.872	
32	19.64	292.0	1989	1.51	5.16	0.0978	0.420	B
33	19.76	292.0	2111	1.14	3.91	0.0656	0.183	B
34	19.82	292.0	283	0.191	0.655	0.0579	0.183	B
35	19.96	292.0				0.205	25.0	U
36	20.04	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.22	292.0	960	0.900	3.08	0.160	0.786	
38	20.35	272.4	1006	1.11	4.06	0.115	0.475	
39	20.69	292.0	1680	1.18	4.05	0.121	0.749	
41	20.85	326.4	143	0.187	0.572	0.115	25.0	J
42	20.95	292.0	220	0.214	0.734	0.0968	0.172	
43	21.20	298.9	117			0.152	25.0	U
44	21.37	298.9	106	0.0727	0.243	0.0225	0.0402	
45	21.54	292.0	250	0.173	0.591	0.0299	0.0384	
46	21.71	292.0	626	0.283	0.970	0.0821	0.347	J
47	21.84	292.0	634	0.299	1.02	0.164	0.621	J
48	22.02	293.5	1620	1.39	4.73	0.243	1.32	
49	22.26	324.7	336	0.304	0.937	0.0376	0.0932	
50	22.55	292.0	1146	0.639	2.19	0.359	0.640	J
51	22.80	326.4	584	1.04	3.18	0.0888	0.329	
52	22.91	326.4	367	0.336	1.03	0.0384	0.0384	B
53	23.05	326.4	466	0.354	1.08	0.0691	0.329	
54	23.26	326.4	359	0.193	0.592	0.101	0.135	
55	23.52	326.4	18			0.00644	0.0102	U
56	23.62	326.4	113	0.106	0.326	0.0647	0.0647	
57	23.84	326.4	276	0.158	0.483	0.0435	0.102	B
58	24.00	326.4	329	0.189	0.580	0.0841	0.212	J
59	24.16	326.4	145	0.0627	0.192	0.0484	0.128	J
60	24.33	360.9	78			0.0772	0.137	U
61	24.42	326.4	740	0.519	1.59	0.0668	0.389	
62	24.69	360.9				0.113	25.0	U
63	24.78	326.4	124	0.0795	0.243	0.0201	0.0804	J
64	25.08	360.9	174	0.0653	0.181	0.0518	0.311	J
65	25.24	350.5	70	0.0310	0.0885	0.0149	0.0530	JB
66	25.27	360.9	35			0.0541	0.110	U
67	25.35	336.8	37			0.0348	0.0475	U
68	25.44	326.4	30			0.125	25.0	U
69	25.54	337.5	457	0.144	0.426	0.0938	0.731	J
70	25.64	360.9				0.0829	25.0	U
71	25.93	347.8				0.0348	0.0369	U
72	26.14	336.8				0.00638	0.0106	U
73	26.42	360.9				0.0320	0.0713	U
74	26.55	347.8	329	0.151	0.434	0.0721	0.248	J
75	26.70	360.9				0.109	0.538	U
76	26.81	360.9				0.107	25.0	U
77	27.24	360.9				0.0637	0.311	U
78	27.31	395.3				0.0470	0.267	U
79	27.51	360.9				0.0501	0.0501	U
80	27.68	360.9				0.0151	0.0475	U
82	27.90	360.9	332			0.108	0.493	U
83	28.08	360.9				0.0450	0.0457	U
84	28.29	360.9				0.00310	0.00473	U
85	28.63	395.3				0.0677	0.201	U
87	28.94	395.3				0.0156	0.0731	U
88	29.08	395.3				0.102	0.658	U
89	29.20	360.9				0.0199	0.0366	U
90	29.39	395.3				0.0679	0.311	U
91	29.64	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.0225	0.0859	U
93	30.37	394.3				0.102	0.585	U
94	30.64	394.3				0.0936	0.311	U
95	30.94	382.2				0.0871	0.144	U
96	31.20	429.8				0.00942	0.0121	U
98	31.38	395.3				0.0133	0.0139	U
99	31.75	429.8				0.0863	0.0863	U
100	32.00	395.3				0.127	0.127	U
101	32.29	429.8				0.217	0.217	U
102	32.48	395.3				0.150	1.11	U
103	32.72	395.3				0.0640	0.0768	U
104	33.03	395.3				0.0374	0.0438	U
105	33.38	429.8				0.0460	0.0786	U
106	34.53	395.3				0.0538	0.234	U
107	34.81	395.3				0.0213	0.0768	U
108	35.68	429.8				0.0324	0.0438	U
109	35.92	429.8				0.116	0.768	U
110	36.46	429.8				0.184	0.786	U
111	37.64	395.3				0.0231	0.0231	U
112	39.18	429.8				0.0368	0.101	U
113	39.72	464.2				0.0438	0.0903	U
114	40.65	464.2				0.0154	0.0340	U
115	42.06	429.8				0.0969	0.329	U
116	42.97	429.8				0.0838	0.0838	U
117	48.12	464.2				0.0384	0.124	U
118	54.13	498.6				0.0126	0.0126	U

Total Concentration = 242 ng/L

11.2 39.1

Total Nanomoles = 1.080

Average Molecular Weight = 224.0

Number of Calibrated Peaks Found = 58

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 166195.8

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090727-BT002  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 09:00:30  
 Lab Sample ID: AM11300  
 LRF ID: 09070314-01  
 Lab File ID: GC25-128-21

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	21.417	25.428
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.52	2:2	004 010	0.2907	2-2; 26	50.939	51.153
6	14.35	2:1	007 009	0.3085	24; 25	0.162	0.163
7	14.67	2:1	006	0.3154	2-3	0.320	0.322
8	14.86	2:1	005 008	0.3195	23; 2-4	1.125	1.129
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	6.961	6.057
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.20	2:0	012 013		34; 3-4	-	-
14	16.36	2:0 3:2	015 018	0.3518	4-4; 25-2	1.088	0.979
15	16.45	3:2	017	0.3537	24-2	2.104	1.831
16	16.74	3:2	024 027	0.3599	236; 26-3	2.589	2.253
17	17.03	3:2	016 032	0.3662	23-2; 26-4	1.686	1.467
19	17.46	3:1 4:4	023 034 054	0.3754	235; 35-2; 26-26	0.342	0.286
20	17.61	3:1	029	0.3786	245	0.039	0.034
21	17.76	3:1	026	0.3819	25-3	0.782	0.681
22	17.84	3:1	025	0.3836	24-3	0.272	0.237
23	18.04	3:1	031	0.3879	25-4	1.068	0.929
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	0.439	0.382
25	18.48	3:1 4:3	020 021 033 053	0.3973	23-3; 234; 34-2; 25-26	0.972	0.839
26	18.68	3:1 4:3	022 051	0.4016	23-4; 24-26	0.428	0.371
27	18.91	4:3	045	0.4066	236-2	0.287	0.220
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046	0.4124	23-26	0.096	0.074
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4188	25-25; 246-3; 26-35	1.503	1.153
32	19.64	4:2	043 049	0.4223	235-2; 24-25	0.623	0.478
33	19.76	4:2	038 047	0.4249	345; 24-24	0.472	0.362
34	19.82	4:2	048 075	0.4261	245-2; 246-4	0.079	0.061
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.22	5:4 4:2	104 044	0.4347	246-26; 23-25	0.372	0.285
38	20.35	3:0 4:2	037 042 059	0.4375	34-4; 23-24; 236-3	0.457	0.376

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	<b>041 064 071 072</b>	0.4449	234-2; 236-4; 26-34; 25-35	0.489	0.375
41	20.85	5:4	<b>068 096</b>	0.4483	24-35; 236-26	0.077	0.053
42	20.95	4:2	<b>040</b>	0.4504	23-23	0.089	0.068
43	21.20	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.37	4:1 5:3	<b>058 067 100</b>	0.4595	23-35; 245-3; 246-24	0.030	0.023
45	21.54	4:1	<b>063</b>	0.4631	235-4	0.071	0.055
46	21.71	4:1 5:3	<b>074 094 061</b>	0.4668	245-4; 235-26; 2345	0.117	0.090
47	21.84	4:1	<b>070</b>	0.4696	25-34	0.124	0.095
48	22.02	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4734	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.574	0.438
49	22.26	4:1 5:3	<b>055 091 121</b>	0.4786	234-3; 236-24; 246-35	0.126	0.087
50	22.55	4:1	<b>056 060</b>	0.4848	23-34; 234-4	0.264	0.203
51	22.80	5:3 6:4	<b>084 092 155</b>	0.4902	236-23; 235-25; 246-246	0.429	0.294
52	22.91	5:3	<b>089</b>	0.4926	234-26	0.139	0.095
53	23.05	5:2	<b>090 101</b>	0.4956	235-24; 245-25	0.146	0.100
54	23.26	5:2	<b>079 099 113</b>	0.5001	34-35; 245-24; 236-35	0.080	0.055
55	23.52	5:2 6:4	<b>119 150</b>		246-34; 236-246	-	-
56	23.62	5:2	<b>078 083 112 108</b>	0.5078	345-3; 235-23; 2356-3; 2346-3	0.044	0.030
57	23.84	5:2 6:4	<b>097 152 086</b>	0.5126	245-23; 2356-26; 2345-2	0.065	0.045
58	24.00	5:2	<b>081 087 117 125 115 145</b>	0.5160	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.078	0.054
59	24.16	5:2	<b>116 085 111</b>	0.5195	23456; 234-24; 235-35	0.026	0.018
60	24.33	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.42	5:2	<b>077 110 148</b>	0.5250	34-34; 236-34; 235-246	0.214	0.147
62	24.69	6:3	<b>154</b>		245-246	-	-
63	24.78	5:2	<b>082</b>	0.5328	234-23	0.033	0.023
64	25.08	6:3	<b>151</b>	0.5392	2356-25	0.027	0.017
65	25.24	5:1 6:3	<b>124 135</b>	0.5427	345-25; 235-236	0.013	0.008
66	25.27	6:3	<b>144</b>		2346-25	-	-
67	25.35	5:1 6:3	<b>107 109 147</b>		234-35; 235-34; 2356-24	-	-
68	25.44	5:1	<b>123</b>		345-24	-	-
69	25.54	5:1 6:3	<b>106 118 139 149</b>	0.5491	2345-3; 245-34; 2346-24; 236-245	0.059	0.039
70	25.64	6:3	<b>140</b>		234-246	-	-
71	25.93	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.55	5:1 6:3	<b>105 132 161</b>	0.5708	234-34; 234-236; 2346-35	0.062	0.040
75	26.70	6:2	<b>153</b>		245-245	-	-
76	26.81	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	<b>141</b>		2345-25	-	-
78	27.31	7:4	<b>179</b>		2356-236	-	-
79	27.51	6:2	<b>137</b>		2345-24	-	-
80	27.68	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.90	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.08	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.63	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.94	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.08	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.20	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.39	7:3	<b>183</b>		2346-245	-	-
91	29.64	6:1	<b>167</b>		245-345	-	-
92	29.99	7:3	<b>185</b>		23456-25	-	-
93	30.37	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.64	7:3	<b>177</b>		2356-234	-	-
95	30.94	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.20	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.38	7:3	<b>173</b>		23456-23	-	-
99	31.75	8:4	<b>201</b>		2346-2356	-	-
100	32.00	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.29	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.48	7:2	<b>180</b>		2345-245	-	-
103	32.72	7:2	<b>193</b>		2356-345	-	-
104	33.03	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196</b> <b>203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 242 ng/L

Total Nanomoles = 1.080

Average Molecular Weight = 224.0

Number of Calibrated Peaks Found = 58

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

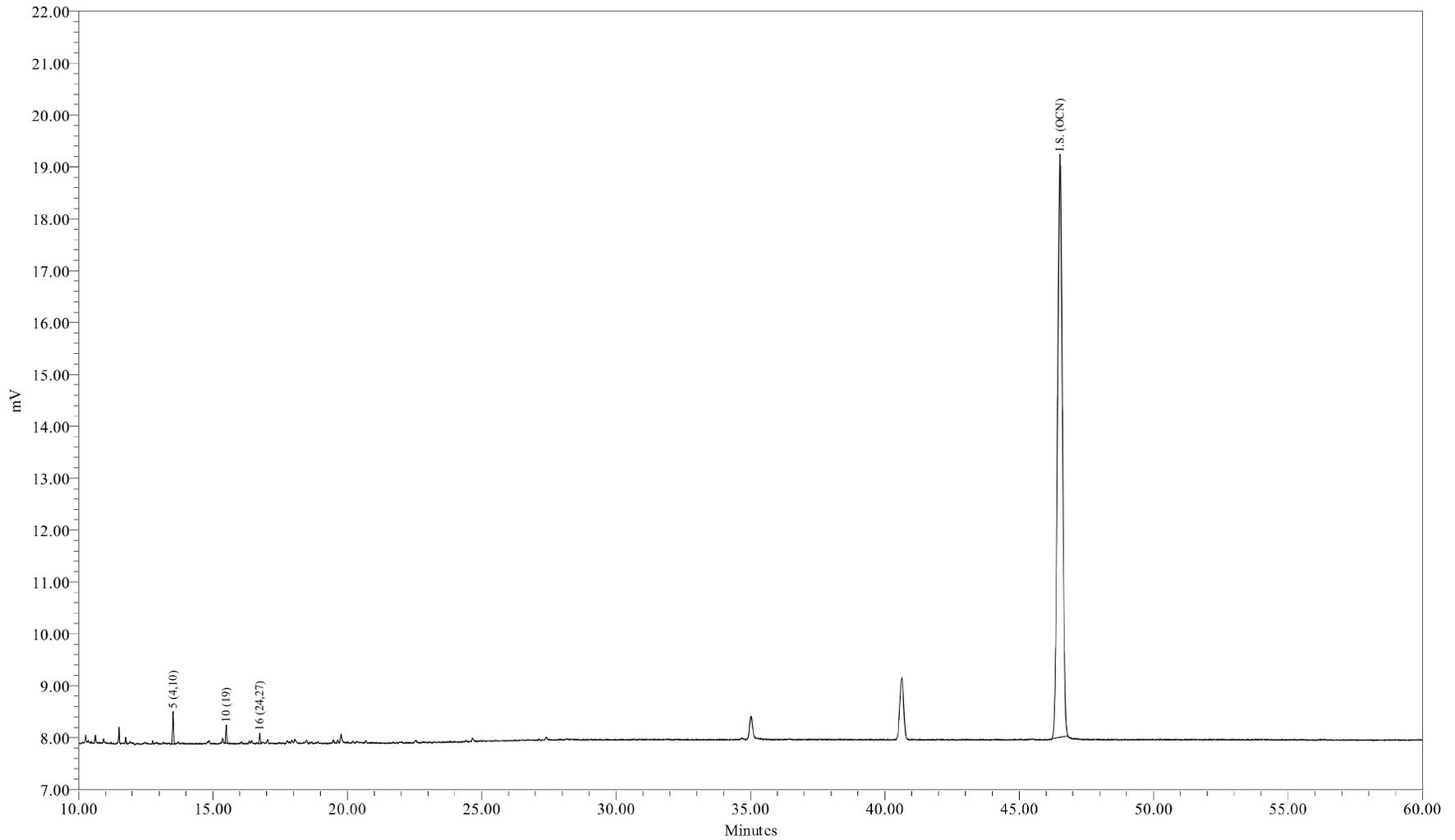
<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Sample Name: AM11300DL1  
Sample ID: WFF-LOC5-090727-BT002  
Date Acquired: 7/28/2009 10:05:59 AM EDT

Sample Amount (L) : 1.0600  
Dilution: 50  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-128-22

Sample Name: AM11300DL1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090727-BT002  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 10:05:59  
 Lab Sample ID: AM11300DL1  
 LRF ID: 09070314-01DL1  
 Lab File ID: GC25-128-22

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 146 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	84.21	86.03
Tri	15.79	13.97
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.10

Meta + Para Cl / biphenyl Residue = 0.04

Total Cl / biphenyl Residue = 2.14

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090727-BT002  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 10:05:59  
 Lab Sample ID: AM11300DL1  
 LRF ID: 09070314-01DL1  
 Lab File ID: GC25-128-22

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.75	188.7				5.29	21.9	U
3	12.78	188.7				66.3	10000	U
4	12.89	188.7				3.55	12.8	U
5	13.52	223.1	1796	123	553	1.34	6.21	B
6	14.35	223.1				0.721	2.19	U
7	14.67	223.1				1.58	3.47	U
8	14.86	223.1				5.42	25.6	U
9	15.42	223.1				2.94	250	U
10	15.50	257.5	852	16.8	65.4	0.604	1.02	
11	15.97	257.5				1.98	250	U
12	16.03	223.1				3.06	250	U
13	16.23	223.1				0.559	0.975	U
14	16.36	249.0				1.28	6.76	U
15	16.44	257.5				1.43	6.76	U
16	16.74	257.5	517	6.27	24.3	0.374	0.475	
17	17.02	257.5				1.66	7.13	U
19	17.46	267.9				1.28	250	U
20	17.63	257.5				0.108	0.194	U
21	17.76	257.5				0.606	1.32	U
22	17.84	257.5				0.426	0.585	U
23	18.04	257.5				4.87	7.53	U
24	18.09	257.5				2.11	9.64	U
25	18.44	259.5				1.05	7.26	U
26	18.67	258.7				1.20	5.30	U
27	18.91	292.0				0.367	1.63	U
28	19.04	257.5				3.75	250	U
29	19.18	292.0				1.27	1.27	U
30	19.31	257.5				1.20	250	U
31	19.48	292.0				2.04	8.72	U
32	19.65	292.0				0.978	4.20	U
33	19.76	292.0				0.656	1.83	U
34	19.82	292.0				0.579	1.83	U
35	19.96	292.0				2.05	250	U
36	20.04	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.22	292.0				1.60	7.86	U
38	20.35	272.4				1.15	4.75	U
39	20.69	292.0				1.21	7.49	U
41	20.86	326.4				1.15	250	U
42	20.96	292.0				0.968	1.72	U
43	21.21	298.9				1.52	250	U
44	21.38	298.9				0.225	0.402	U
45	21.53	292.0				0.299	0.384	U
46	21.70	292.0				0.821	3.47	U
47	21.84	292.0				1.64	6.21	U
48	21.95	293.5				2.43	13.2	U
49	22.26	324.7				0.376	0.932	U
50	22.56	292.0				3.59	6.40	U
51	22.80	326.4				0.888	3.29	U
52	22.91	326.4				0.384	0.384	U
53	23.06	326.4				0.691	3.29	U
54	23.25	326.4				1.01	1.35	U
55	23.53	326.4				0.0644	0.102	U
56	23.63	326.4				0.647	0.647	U
57	23.84	326.4				0.435	1.02	U
58	24.01	326.4				0.841	2.12	U
59	24.17	326.4				0.484	1.28	U
60	24.29	360.9				0.772	1.37	U
61	24.42	326.4				0.668	3.89	U
62	24.69	360.9				1.13	250	U
63	24.79	326.4				0.201	0.804	U
64	25.08	360.9				0.518	3.11	U
65	25.22	350.5				0.149	0.530	U
66	25.28	360.9				0.541	1.10	U
67	25.34	336.8				0.348	0.475	U
68	25.43	326.4				1.25	250	U
69	25.53	337.5				0.938	7.31	U
70	25.64	360.9				0.829	250	U
71	25.93	347.8				0.348	0.369	U
72	26.14	336.8				0.0638	0.106	U
73	26.42	360.9				0.320	0.713	U
74	26.55	347.8				0.721	2.48	U
75	26.70	360.9				1.09	5.38	U
76	26.81	360.9				1.07	250	U
77	27.24	360.9				0.637	3.11	U
78	27.31	395.3				0.470	2.67	U
79	27.51	360.9				0.501	0.501	U
80	27.68	360.9				0.151	0.475	U
82	27.89	360.9				1.08	4.93	U
83	28.08	360.9				0.450	0.457	U
84	28.29	360.9				0.0310	0.0473	U
85	28.63	395.3				0.677	2.01	U
87	28.94	395.3				0.156	0.731	U
88	29.08	395.3				1.02	6.58	U
89	29.20	360.9				0.199	0.366	U
90	29.39	395.3				0.679	3.11	U
91	29.64	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.225	0.859	U
93	30.37	394.3				1.02	5.85	U
94	30.64	394.3				0.936	3.11	U
95	30.94	382.2				0.871	1.44	U
96	31.20	429.8				0.0942	0.121	U
98	31.38	395.3				0.133	0.139	U
99	31.75	429.8				0.863	0.863	U
100	32.00	395.3				1.27	1.27	U
101	32.29	429.8				2.17	2.17	U
102	32.48	395.3				1.50	11.1	U
103	32.72	395.3				0.640	0.768	U
104	33.03	395.3				0.374	0.438	U
105	33.38	429.8				0.460	0.786	U
106	34.53	395.3				0.538	2.34	U
107	34.81	395.3				0.213	0.768	U
108	35.68	429.8				0.324	0.438	U
109	35.92	429.8				1.16	7.68	U
110	36.46	429.8				1.84	7.86	U
111	37.64	395.3				0.231	0.231	U
112	39.18	429.8				0.368	1.01	U
113	39.72	464.2				0.438	0.903	U
114	40.65	464.2				0.154	0.340	U
115	42.06	429.8				0.969	3.29	U
116	42.97	429.8				0.838	0.838	U
117	48.12	464.2				0.384	1.24	U
118	54.13	498.6				0.126	0.126	U

Total Concentration = 146 ng/L 91.0 322 J

Total Nanomoles = 0.642

Average Molecular Weight = 227.9

Number of Calibrated Peaks Found = 3

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 139211.3

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090727-BT002  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 10:05:59  
 Lab Sample ID: AM11300DL1  
 LRF ID: 09070314-01DL1  
 Lab File ID: GC25-128-22

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.75	1:1	001		2	-	-
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.52	2:2	004 010	0.2907	2-2; 26	84.211	86.026
6	14.35	2:1	007 009		24; 25	-	-
7	14.67	2:1	006		2-3	-	-
8	14.86	2:1	005 008		23; 2-4	-	-
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	11.508	10.186
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013		34; 3-4	-	-
14	16.36	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.44	3:2	017		24-2	-	-
16	16.74	3:2	024 027	0.3599	236; 26-3	4.281	3.789
17	17.02	3:2	016 032		23-2; 26-4	-	-
19	17.46	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.63	3:1	029		245	-	-
21	17.76	3:1	026		25-3	-	-
22	17.84	3:1	025		24-3	-	-
23	18.04	3:1	031		25-4	-	-
24	18.09	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.44	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.67	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.91	4:3	045		236-2	-	-
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046		23-26	-	-
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.65	4:2	043 049		235-2; 24-25	-	-
33	19.76	4:2	038 047		345; 24-24	-	-
34	19.82	4:2	048 075		245-2; 246-4	-	-
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.22	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.35	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	<b>041 064 071 072</b>		234-2; 236-4; 26-34; 25-35	-	-
41	20.86	5:4	<b>068 096</b>		24-35; 236-26	-	-
42	20.96	4:2	<b>040</b>		23-23	-	-
43	21.21	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.38	4:1 5:3	<b>058 067 100</b>		23-35; 245-3; 246-24	-	-
45	21.53	4:1	<b>063</b>		235-4	-	-
46	21.70	4:1 5:3	<b>074 094 061</b>		245-4; 235-26; 2345	-	-
47	21.84	4:1	<b>070</b>		25-34	-	-
48	21.95	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.26	4:1 5:3	<b>055 091 121</b>		234-3; 236-24; 246-35	-	-
50	22.56	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.80	5:3 6:4	<b>084 092 155</b>		236-23; 235-25; 246-246	-	-
52	22.91	5:3	<b>089</b>		234-26	-	-
53	23.06	5:2	<b>090 101</b>		235-24; 245-25	-	-
54	23.25	5:2	<b>079 099 113</b>		34-35; 245-24; 236-35	-	-
55	23.53	5:2 6:4	<b>119 150</b>		246-34; 236-246	-	-
56	23.63	5:2	<b>078 083 112 108</b>		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.84	5:2 6:4	<b>097 152 086</b>		245-23; 2356-26; 2345-2	-	-
58	24.01	5:2	<b>081 087 117 125 115 145</b>		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.17	5:2	<b>116 085 111</b>		23456; 234-24; 235-35	-	-
60	24.29	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.42	5:2	<b>077 110 148</b>		34-34; 236-34; 235-246	-	-
62	24.69	6:3	<b>154</b>		245-246	-	-
63	24.79	5:2	<b>082</b>		234-23	-	-
64	25.08	6:3	<b>151</b>		2356-25	-	-
65	25.22	5:1 6:3	<b>124 135</b>		345-25; 235-236	-	-
66	25.28	6:3	<b>144</b>		2346-25	-	-
67	25.34	5:1 6:3	<b>107 109 147</b>		234-35; 235-34; 2356-24	-	-
68	25.43	5:1	<b>123</b>		345-24	-	-
69	25.53	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.64	6:3	<b>140</b>		234-246	-	-
71	25.93	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.55	5:1 6:3	<b>105 132 161</b>		234-34; 234-236; 2346-35	-	-
75	26.70	6:2	<b>153</b>		245-245	-	-
76	26.81	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	<b>141</b>		2345-25	-	-
78	27.31	7:4	<b>179</b>		2356-236	-	-
79	27.51	6:2	<b>137</b>		2345-24	-	-
80	27.68	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.89	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.08	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.63	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.94	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.08	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.20	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.39	7:3	<b>183</b>		2346-245	-	-
91	29.64	6:1	<b>167</b>		245-345	-	-
92	29.99	7:3	<b>185</b>		23456-25	-	-
93	30.37	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.64	7:3	<b>177</b>		2356-234	-	-
95	30.94	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.20	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.38	7:3	<b>173</b>		23456-23	-	-
99	31.75	8:4	<b>201</b>		2346-2356	-	-
100	32.00	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.29	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.48	7:2	<b>180</b>		2345-245	-	-
103	32.72	7:2	<b>193</b>		2356-345	-	-
104	33.03	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 146 ng/L

Total Nanomoles = 0.642

Average Molecular Weight = 227.9

Number of Calibrated Peaks Found = 3

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 1040 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

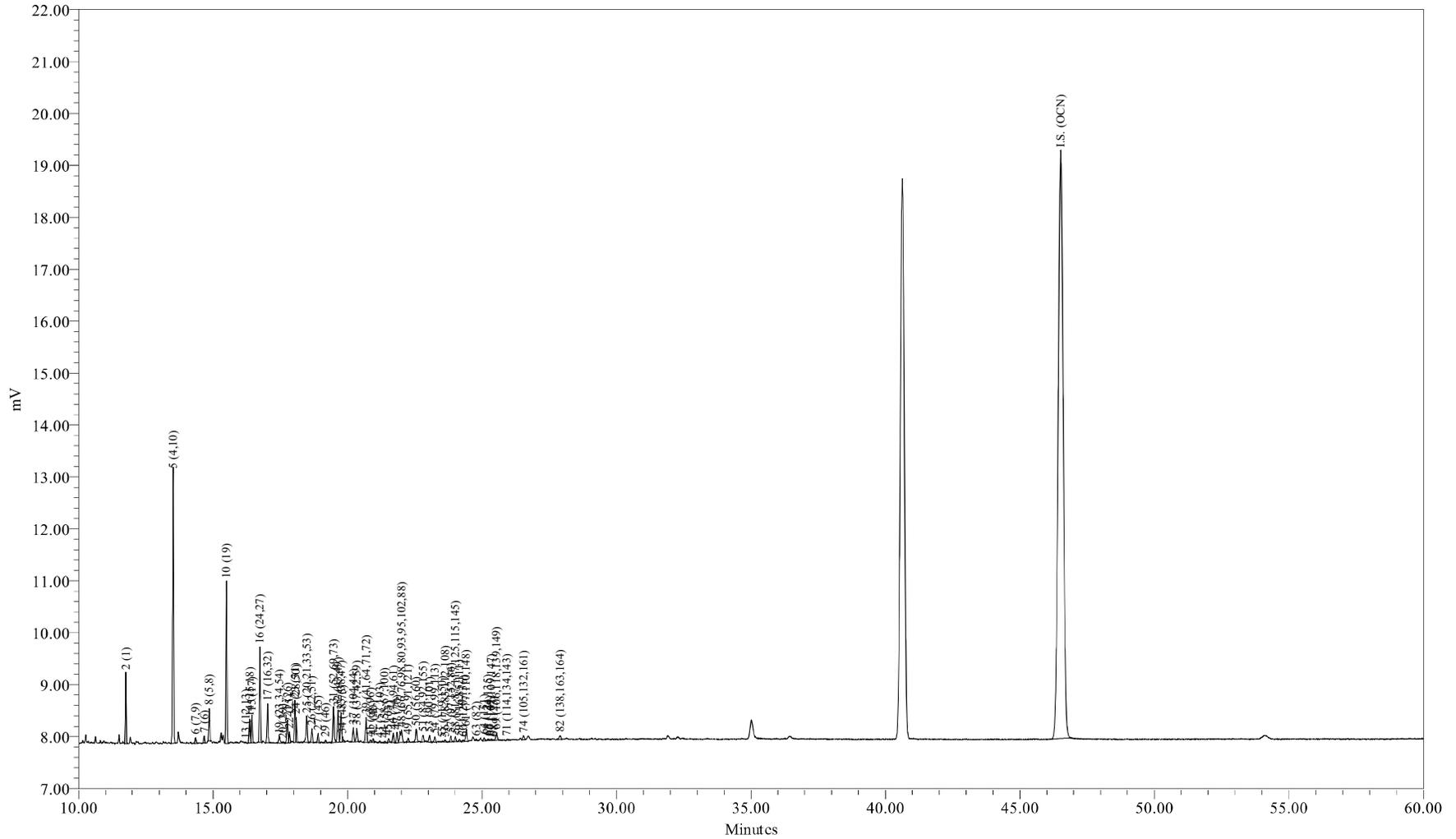
SDG No: 09070314  
LRF ID: 09070314-02  
Client ID: WFF-SCHU-090727-BT001  
Lab Sample ID: AM11301  
Lab File ID: GC25-129-8  
Date Received: 07/27/2009  
Date Extracted: 07/27/2009  
Date/Time Analyzed: 07/28/2009 19:55  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 143772

Percent Recovery (50 - 150 %): 88.7

SAMPLE TOTAL PCB CONCENTRATION: 250 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM11301  
Sample ID: WFF-SCHU-090727-BT001  
Date Acquired: 7/28/2009 7:55:43 PM EDT

Sample Amount (L) : 1.0400  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-129-8

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 19:55:43  
 Lab Sample ID: AM11301  
 LRF ID: 09070314-02  
 Lab File ID: GC25-129-8

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 250 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	24.59	29.03
Di	50.03	49.92
Tri	17.94	15.52
Tetra	5.59	4.29
Penta	1.65	1.12
Hexa	0.19	0.12
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	61.4789	93.1	93.5
A1242	23+24/31+28	3.9060	5.92	5.94
A1254SED	61/100	0.6442	0.976	
A1254BIO	69+75+82/149+153+138	0.3669		0.558
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.71

Meta + Para Cl / biphenyl Residue = 0.28

Total Cl / biphenyl Residue = 1.99

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 19:55:43  
 Lab Sample ID: AM11301  
 LRF ID: 09070314-02  
 Lab File ID: GC25-129-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.76	188.7	2495	61.5	326	0.529	2.19	
3	12.78	188.7				6.63	1000	U
4	12.89	188.7				0.355	1.28	U
5	13.52	223.1	1700	121	540	1.34	6.21	B
6	14.35	223.1	295	0.402	1.80	0.0721	0.219	
7	14.67	223.1	301	0.870	3.90	0.158	0.347	
8	14.86	223.1	1408	2.60	11.7	0.542	2.56	
9	15.42	223.1				0.294	25.0	U
10	15.50	257.5	838	17.1	66.4	0.604	1.02	
11	15.97	257.5				0.198	25.0	U
12	16.03	223.1				0.306	25.0	U
13	16.22	223.1	11			0.0559	0.0975	U
14	16.36	249.0	1265	2.66	10.7	0.128	0.676	
15	16.45	257.5	1410	5.19	20.2	0.143	0.676	B
16	16.74	257.5	422	5.29	20.5	0.374	0.475	
17	17.03	257.5	2045	4.11	16.0	0.166	0.713	
19	17.46	267.9	468	0.759	2.83	0.128	25.0	J
20	17.60	257.5	99	0.104	0.404	0.0108	0.0194	
21	17.76	257.5	1273	1.97	7.66	0.0606	0.132	B
22	17.84	257.5	620	0.708	2.75	0.0426	0.0585	B
23	18.04	257.5	2324	2.81	10.9	0.487	0.753	
24	18.09	257.5	1128	1.10	4.26	0.211	0.964	
25	18.48	259.5	1688	2.38	9.17	0.105	0.726	
26	18.67	258.7	753	1.14	4.41	0.120	0.530	
27	18.91	292.0	516	0.719	2.46	0.0367	0.163	B
28	19.04	257.5				0.375	25.0	U
29	19.18	292.0	143	0.235	0.806	0.127	0.127	
30	19.31	257.5				0.120	25.0	U
31	19.48	292.0	2160	3.90	13.3	0.204	0.872	
32	19.64	292.0	1915	1.72	5.89	0.0978	0.420	B
33	19.76	292.0	1677	1.07	3.65	0.0656	0.183	B
34	19.81	292.0	262	0.211	0.724	0.0579	0.183	B
35	19.96	292.0				0.205	25.0	U
36	20.04	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.21	292.0	773	0.848	2.90	0.160	0.786	
38	20.35	272.4	800	1.02	3.76	0.115	0.475	
39	20.69	292.0	1556	1.30	4.45	0.121	0.749	
41	20.85	326.4	157	0.240	0.735	0.115	25.0	J
42	20.96	292.0	216	0.248	0.850	0.0968	0.172	
43	21.20	298.9	88			0.152	25.0	U
44	21.38	298.9	124	0.100	0.335	0.0225	0.0402	
45	21.52	292.0	237	0.193	0.662	0.0299	0.0384	
46	21.70	292.0	568	0.305	1.05	0.0821	0.347	J
47	21.84	292.0	632	0.371	1.27	0.164	0.621	J
48	22.02	293.5	1472	1.50	5.11	0.243	1.32	
49	22.25	324.7	230	0.244	0.752	0.0376	0.0932	
50	22.55	292.0	805	0.506	1.73	0.359	0.640	J
51	22.81	326.4	505	1.06	3.24	0.0888	0.329	
52	22.91	326.4				0.0384	0.0384	U
53	23.05	326.4	496	0.450	1.38	0.0691	0.329	
54	23.25	326.4	372	0.235	0.721	0.101	0.135	
55	23.53	326.4	25	0.0100	0.0307	0.00644	0.0102	J
56	23.62	326.4	134	0.148	0.453	0.0647	0.0647	
57	23.84	326.4	360	0.251	0.769	0.0435	0.102	B
58	24.01	326.4	335	0.236	0.724	0.0841	0.212	
59	24.16	326.4	167	0.0937	0.287	0.0484	0.128	J
60	24.30	360.9	109			0.0772	0.137	U
61	24.42	326.4	760	0.644	1.97	0.0668	0.389	
62	24.69	360.9				0.113	25.0	U
63	24.78	326.4	98	0.0744	0.228	0.0201	0.0804	J
64	25.08	360.9	204	0.114	0.315	0.0518	0.311	J
65	25.21	350.5	120	0.0623	0.178	0.0149	0.0530	B
66	25.27	360.9	43	0.0620	0.172	0.0541	0.110	JB
67	25.35	336.8	124	0.105	0.312	0.0348	0.0475	
68	25.43	326.4	33			0.125	25.0	U
69	25.54	337.5	547	0.268	0.794	0.0938	0.731	J
70	25.64	360.9				0.0829	25.0	U
71	25.93	347.8	73	0.0597	0.172	0.0348	0.0369	
72	26.14	336.8				0.00638	0.0106	U
73	26.42	360.9				0.0320	0.0713	U
74	26.54	347.8	312	0.170	0.488	0.0721	0.248	J
75	26.70	360.9				0.109	0.538	U
76	26.81	360.9				0.107	25.0	U
77	27.24	360.9				0.0637	0.311	U
78	27.31	395.3				0.0470	0.267	U
79	27.51	360.9				0.0501	0.0501	U
80	27.68	360.9				0.0151	0.0475	U
82	27.91	360.9	313			0.108	0.493	U
83	28.08	360.9				0.0450	0.0457	U
84	28.29	360.9				0.00310	0.00473	U
85	28.63	395.3				0.0677	0.201	U
87	28.94	395.3				0.0156	0.0731	U
88	29.08	395.3				0.102	0.658	U
89	29.20	360.9				0.0199	0.0366	U
90	29.39	395.3				0.0679	0.311	U
91	29.64	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.0225	0.0859	U
93	30.37	394.3				0.102	0.585	U
94	30.64	394.3				0.0936	0.311	U
95	30.94	382.2				0.0871	0.144	U
96	31.20	429.8				0.00942	0.0121	U
98	31.38	395.3				0.0133	0.0139	U
99	31.75	429.8				0.0863	0.0863	U
100	32.00	395.3				0.127	0.127	U
101	32.29	429.8				0.217	0.217	U
102	32.48	395.3				0.150	1.11	U
103	32.72	395.3				0.0640	0.0768	U
104	33.03	395.3				0.0374	0.0438	U
105	33.38	429.8				0.0460	0.0786	U
106	34.53	395.3				0.0538	0.234	U
107	34.81	395.3				0.0213	0.0768	U
108	35.68	429.8				0.0324	0.0438	U
109	35.92	429.8				0.116	0.768	U
110	36.46	429.8				0.184	0.786	U
111	37.64	395.3				0.0231	0.0231	U
112	39.18	429.8				0.0368	0.101	U
113	39.72	464.2				0.0438	0.0903	U
114	40.65	464.2				0.0154	0.0340	U
115	42.06	429.8				0.0969	0.329	U
116	42.97	429.8				0.0838	0.0838	U
117	48.12	464.2				0.0384	0.124	U
118	54.13	498.6				0.0126	0.0126	U

Total Concentration = 250 ng/L

11.2

39.1

Total Nanomoles = 1.122

Average Molecular Weight = 222.7

Number of Calibrated Peaks Found = 58

Internal Standard Retention Time = 46.52 minutes

Internal Standard Peak Area = 143772.1

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 19:55:43  
 Lab Sample ID: AM11301  
 LRF ID: 09070314-02  
 Lab File ID: GC25-129-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	24.593	29.028
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.52	2:2	004 010	0.2906	2-2; 26	48.219	48.140
6	14.35	2:1	007 009	0.3085	24; 25	0.161	0.160
7	14.67	2:1	006	0.3153	2-3	0.348	0.348
8	14.86	2:1	005 008	0.3194	23; 2-4	1.042	1.040
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3332	26-2	6.844	5.920
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.22	2:0	012 013		34; 3-4	-	-
14	16.36	2:0 3:2	015 018	0.3517	4-4; 25-2	1.065	0.953
15	16.45	3:2	017	0.3536	24-2	2.077	1.796
16	16.74	3:2	024 027	0.3598	236; 26-3	2.115	1.829
17	17.03	3:2	016 032	0.3661	23-2; 26-4	1.643	1.421
19	17.46	3:1 4:4	023 034 054	0.3753	235; 35-2; 26-26	0.304	0.252
20	17.60	3:1	029	0.3783	245	0.042	0.036
21	17.76	3:1	026	0.3818	25-3	0.789	0.682
22	17.84	3:1	025	0.3835	24-3	0.283	0.245
23	18.04	3:1	031	0.3878	25-4	1.124	0.972
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	0.438	0.379
25	18.48	3:1 4:3	020 021 033 053	0.3972	23-3; 234; 34-2; 25-26	0.952	0.817
26	18.67	3:1 4:3	022 051	0.4013	23-4; 24-26	0.457	0.393
27	18.91	4:3	045	0.4065	236-2	0.287	0.219
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046	0.4123	23-26	0.094	0.072
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4187	25-25; 246-3; 26-35	1.558	1.189
32	19.64	4:2	043 049	0.4222	235-2; 24-25	0.688	0.525
33	19.76	4:2	038 047	0.4248	345; 24-24	0.426	0.325
34	19.81	4:2	048 075	0.4258	245-2; 246-4	0.085	0.064
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.21	5:4 4:2	104 044	0.4344	246-26; 23-25	0.339	0.259
38	20.35	3:0 4:2	037 042 059	0.4374	34-4; 23-24; 236-3	0.410	0.335

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	041 064 071 072	0.4448	234-2; 236-4; 26-34; 25-35	0.520	0.397
41	20.85	5:4	068 096	0.4482	24-35; 236-26	0.096	0.066
42	20.96	4:2	040	0.4506	23-23	0.099	0.076
43	21.20	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.38	4:1 5:3	058 067 100	0.4596	23-35; 245-3; 246-24	0.040	0.030
45	21.52	4:1	063	0.4626	235-4	0.077	0.059
46	21.70	4:1 5:3	074 094 061	0.4665	245-4; 235-26; 2345	0.122	0.093
47	21.84	4:1	070	0.4695	25-34	0.148	0.113
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088	0.4733	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.600	0.455
49	22.25	4:1 5:3	055 091 121	0.4783	234-3; 236-24; 246-35	0.098	0.067
50	22.55	4:1	056 060	0.4847	23-34; 234-4	0.202	0.154
51	22.81	5:3 6:4	084 092 155	0.4903	236-23; 235-25; 246-246	0.423	0.288
52	22.91	5:3	089		234-26	-	-
53	23.05	5:2	090 101	0.4955	235-24; 245-25	0.180	0.123
54	23.25	5:2	079 099 113	0.4998	34-35; 245-24; 236-35	0.094	0.064
55	23.53	5:2 6:4	119 150	0.5058	246-34; 236-246	0.004	0.003
56	23.62	5:2	078 083 112 108	0.5077	345-3; 235-23; 2356-3; 2346-3	0.059	0.040
57	23.84	5:2 6:4	097 152 086	0.5125	245-23; 2356-26; 2345-2	0.100	0.068
58	24.01	5:2	081 087 117 125 115 145	0.5161	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.095	0.065
59	24.16	5:2	116 085 111	0.5193	23456; 234-24; 235-35	0.037	0.026
60	24.30	6:4	120 136		245-35; 236-236	-	-
61	24.42	5:2	077 110 148	0.5249	34-34; 236-34; 235-246	0.258	0.176
62	24.69	6:3	154		245-246	-	-
63	24.78	5:2	082	0.5327	234-23	0.030	0.020
64	25.08	6:3	151	0.5391	2356-25	0.045	0.028
65	25.21	5:1 6:3	124 135	0.5419	345-25; 235-236	0.025	0.016
66	25.27	6:3	144	0.5432	2346-25	0.025	0.015
67	25.35	5:1 6:3	107 109 147	0.5449	234-35; 235-34; 2356-24	0.042	0.028
68	25.43	5:1	123		345-24	-	-
69	25.54	5:1 6:3	106 118 139 149	0.5490	2345-3; 245-34; 2346-24; 236-245	0.107	0.071
70	25.64	6:3	140		234-246	-	-
71	25.93	5:1 6:3	114 134 143	0.5574	2345-4; 2356-23; 2345-26	0.024	0.015
72	26.14	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.54	5:1 6:3	105 132 161	0.5705	234-34; 234-236; 2346-35	0.068	0.043
75	26.70	6:2	153		245-245	-	-
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	141		2345-25	-	-
78	27.31	7:4	179		2356-236	-	-
79	27.51	6:2	137		2345-24	-	-
80	27.68	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.91	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.08	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	126 129		345-34; 2345-23	-	-
85	28.63	7:3	166 178		23456-4; 2356-235	-	-
87	28.94	7:3	175 159		2346-235; 2345-35	-	-
88	29.08	7:3	182 187		2345-246; 2356-245	-	-
89	29.20	6:2	128 162		234-234; 235-345	-	-
90	29.39	7:3	183		2346-245	-	-
91	29.64	6:1	167		245-345	-	-
92	29.99	7:3	185		23456-25	-	-
93	30.37	7:3	174 181		2345-236; 23456-24	-	-
94	30.64	7:3	177		2356-234	-	-
95	30.94	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.20	8:4	157 202		234-345; 2356-2356	-	-
98	31.38	7:3	173		23456-23	-	-
99	31.75	8:4	201		2346-2356	-	-
100	32.00	7:2	172 204		2345-235; 23456-246	-	-
101	32.29	8:4	192 197		23456-35; 2346-2346	-	-
102	32.48	7:2	180		2345-245	-	-
103	32.72	7:2	193		2356-345	-	-
104	33.03	7:2	191		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 250 ng/L

Total Nanomoles = 1.122

Average Molecular Weight = 222.7

Number of Calibrated Peaks Found = 58

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

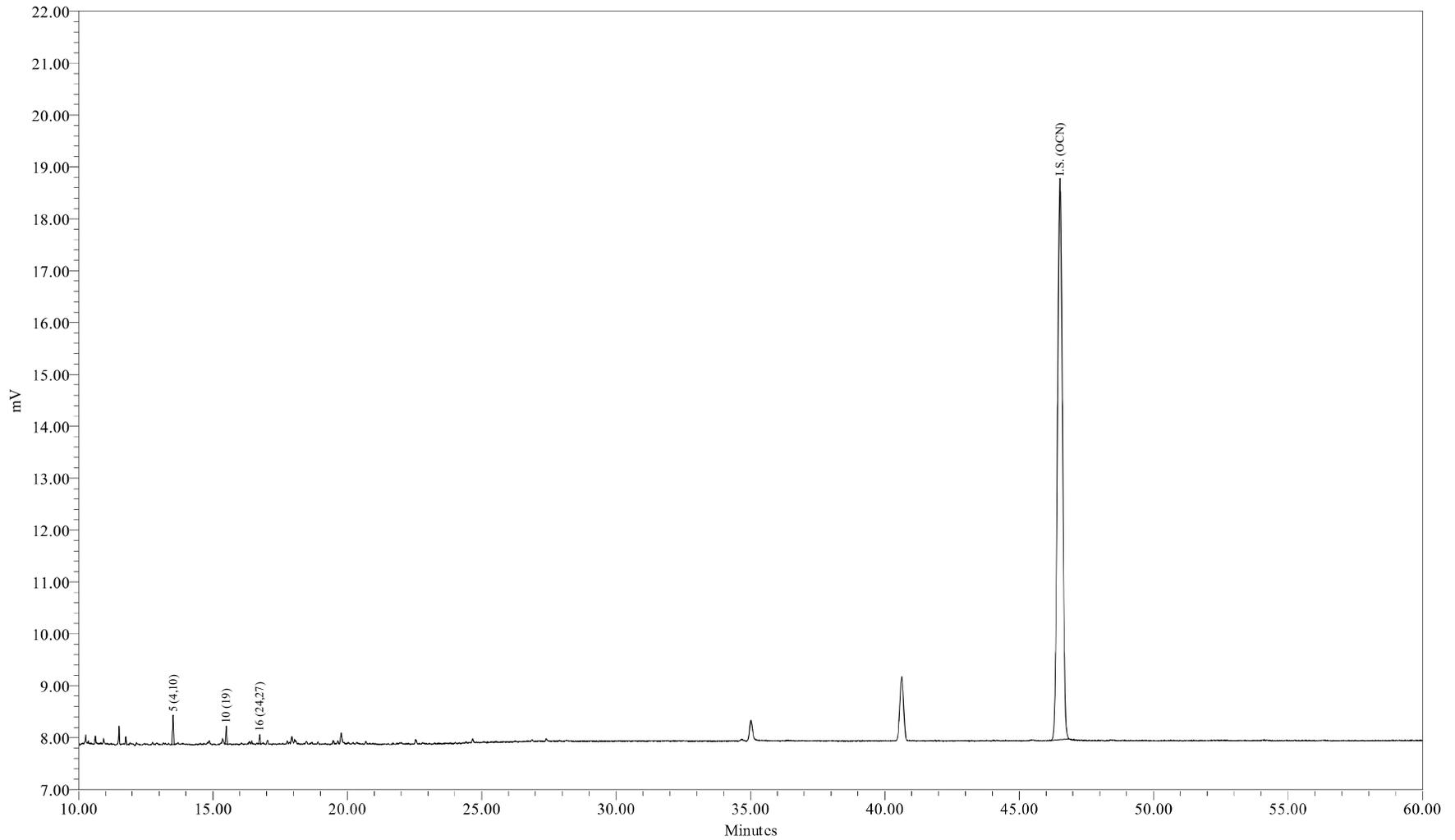
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



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Sample Name: AM11301DL1RR1  
Sample ID: WFF-SCHU-090727-BT001  
Date Acquired: 7/29/2009 10:07:03 AM EDT

Sample Amount (L) : 1.0400  
Dilution: 50  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-129-21

Sample Name: AM11301DL1RR1

1 of 1

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 10:07:03  
 Lab Sample ID: AM11301DL1RR1  
 LRF ID: 09070314-02DL1RR1  
 Lab File ID: GC25-129-21

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 143 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	84.33	86.13
Tri	15.67	13.87
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.11

Meta + Para Cl / biphenyl Residue = 0.03

Total Cl / biphenyl Residue = 2.14

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 10:07:03  
 Lab Sample ID: AM11301DL1RR1  
 LRF ID: 09070314-02DL1RR1  
 Lab File ID: GC25-129-21

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.75	188.7				5.29	21.9	U
3	12.78	188.7				66.3	10000	U
4	12.89	188.7				3.55	12.8	U
5	13.52	223.1	1700	121	540	1.34	6.21	B
6	14.35	223.1				0.721	2.19	U
7	14.67	223.1				1.58	3.47	U
8	14.86	223.1				5.42	25.6	U
9	15.42	223.1				2.94	250	U
10	15.50	257.5	838	17.1	66.4	0.604	1.02	
11	15.97	257.5				1.98	250	U
12	16.03	223.1				3.06	250	U
13	16.23	223.1				0.559	0.975	U
14	16.36	249.0				1.28	6.76	U
15	16.44	257.5				1.43	6.76	U
16	16.74	257.5	422	5.29	20.5	0.374	0.475	
17	17.02	257.5				1.66	7.13	U
19	17.46	267.9				1.28	250	U
20	17.63	257.5				0.108	0.194	U
21	17.76	257.5				0.606	1.32	U
22	17.84	257.5				0.426	0.585	U
23	18.04	257.5				4.87	7.53	U
24	18.09	257.5				2.11	9.64	U
25	18.44	259.5				1.05	7.26	U
26	18.67	258.7				1.20	5.30	U
27	18.91	292.0				0.367	1.63	U
28	19.04	257.5				3.75	250	U
29	19.18	292.0				1.27	1.27	U
30	19.31	257.5				1.20	250	U
31	19.48	292.0				2.04	8.72	U
32	19.65	292.0				0.978	4.20	U
33	19.76	292.0				0.656	1.83	U
34	19.82	292.0				0.579	1.83	U
35	19.96	292.0				2.05	250	U
36	20.04	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.22	292.0				1.60	7.86	U
38	20.35	272.4				1.15	4.75	U
39	20.69	292.0				1.21	7.49	U
41	20.86	326.4				1.15	250	U
42	20.96	292.0				0.968	1.72	U
43	21.21	298.9				1.52	250	U
44	21.38	298.9				0.225	0.402	U
45	21.53	292.0				0.299	0.384	U
46	21.70	292.0				0.821	3.47	U
47	21.84	292.0				1.64	6.21	U
48	21.95	293.5				2.43	13.2	U
49	22.26	324.7				0.376	0.932	U
50	22.56	292.0				3.59	6.40	U
51	22.80	326.4				0.888	3.29	U
52	22.91	326.4				0.384	0.384	U
53	23.06	326.4				0.691	3.29	U
54	23.25	326.4				1.01	1.35	U
55	23.53	326.4				0.0644	0.102	U
56	23.63	326.4				0.647	0.647	U
57	23.84	326.4				0.435	1.02	U
58	24.01	326.4				0.841	2.12	U
59	24.17	326.4				0.484	1.28	U
60	24.29	360.9				0.772	1.37	U
61	24.42	326.4				0.668	3.89	U
62	24.69	360.9				1.13	250	U
63	24.79	326.4				0.201	0.804	U
64	25.08	360.9				0.518	3.11	U
65	25.22	350.5				0.149	0.530	U
66	25.28	360.9				0.541	1.10	U
67	25.34	336.8				0.348	0.475	U
68	25.43	326.4				1.25	250	U
69	25.53	337.5				0.938	7.31	U
70	25.64	360.9				0.829	250	U
71	25.93	347.8				0.348	0.369	U
72	26.14	336.8				0.0638	0.106	U
73	26.42	360.9				0.320	0.713	U
74	26.55	347.8				0.721	2.48	U
75	26.70	360.9				1.09	5.38	U
76	26.81	360.9				1.07	250	U
77	27.24	360.9				0.637	3.11	U
78	27.31	395.3				0.470	2.67	U
79	27.51	360.9				0.501	0.501	U
80	27.68	360.9				0.151	0.475	U
82	27.89	360.9				1.08	4.93	U
83	28.08	360.9				0.450	0.457	U
84	28.29	360.9				0.0310	0.0473	U
85	28.63	395.3				0.677	2.01	U
87	28.94	395.3				0.156	0.731	U
88	29.08	395.3				1.02	6.58	U
89	29.20	360.9				0.199	0.366	U
90	29.39	395.3				0.679	3.11	U
91	29.64	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.225	0.859	U
93	30.37	394.3				1.02	5.85	U
94	30.64	394.3				0.936	3.11	U
95	30.94	382.2				0.871	1.44	U
96	31.20	429.8				0.0942	0.121	U
98	31.38	395.3				0.133	0.139	U
99	31.75	429.8				0.863	0.863	U
100	32.00	395.3				1.27	1.27	U
101	32.29	429.8				2.17	2.17	U
102	32.48	395.3				1.50	11.1	U
103	32.72	395.3				0.640	0.768	U
104	33.03	395.3				0.374	0.438	U
105	33.38	429.8				0.460	0.786	U
106	34.53	395.3				0.538	2.34	U
107	34.81	395.3				0.213	0.768	U
108	35.68	429.8				0.324	0.438	U
109	35.92	429.8				1.16	7.68	U
110	36.46	429.8				1.84	7.86	U
111	37.64	395.3				0.231	0.231	U
112	39.18	429.8				0.368	1.01	U
113	39.72	464.2				0.438	0.903	U
114	40.65	464.2				0.154	0.340	U
115	42.06	429.8				0.969	3.29	U
116	42.97	429.8				0.838	0.838	U
117	48.12	464.2				0.384	1.24	U
118	54.13	498.6				0.126	0.126	U

Total Concentration = 143 ng/L 91.0 322 J

Total Nanomoles = 0.627

Average Molecular Weight = 227.9

Number of Calibrated Peaks Found = 3

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 137378.9

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 10:07:03  
 Lab Sample ID: AM11301DL1RR1  
 LRF ID: 09070314-02DL1RR1  
 Lab File ID: GC25-129-21

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.75	1:1	001		2	-	-
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.52	2:2	004 010	0.2907	2-2; 26	84.332	86.135
6	14.35	2:1	007 009		24; 25	-	-
7	14.67	2:1	006		2-3	-	-
8	14.86	2:1	005 008		23; 2-4	-	-
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	11.969	10.592
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013		34; 3-4	-	-
14	16.36	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.44	3:2	017		24-2	-	-
16	16.74	3:2	024 027	0.3599	236; 26-3	3.699	3.273
17	17.02	3:2	016 032		23-2; 26-4	-	-
19	17.46	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.63	3:1	029		245	-	-
21	17.76	3:1	026		25-3	-	-
22	17.84	3:1	025		24-3	-	-
23	18.04	3:1	031		25-4	-	-
24	18.09	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.44	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.67	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.91	4:3	045		236-2	-	-
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046		23-26	-	-
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.65	4:2	043 049		235-2; 24-25	-	-
33	19.76	4:2	038 047		345; 24-24	-	-
34	19.82	4:2	048 075		245-2; 246-4	-	-
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.22	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.35	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	<b>041 064 071 072</b>		234-2; 236-4; 26-34; 25-35	-	-
41	20.86	5:4	<b>068 096</b>		24-35; 236-26	-	-
42	20.96	4:2	<b>040</b>		23-23	-	-
43	21.21	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.38	4:1 5:3	<b>058 067 100</b>		23-35; 245-3; 246-24	-	-
45	21.53	4:1	<b>063</b>		235-4	-	-
46	21.70	4:1 5:3	<b>074 094 061</b>		245-4; 235-26; 2345	-	-
47	21.84	4:1	<b>070</b>		25-34	-	-
48	21.95	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.26	4:1 5:3	<b>055 091 121</b>		234-3; 236-24; 246-35	-	-
50	22.56	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.80	5:3 6:4	<b>084 092 155</b>		236-23; 235-25; 246-246	-	-
52	22.91	5:3	<b>089</b>		234-26	-	-
53	23.06	5:2	<b>090 101</b>		235-24; 245-25	-	-
54	23.25	5:2	<b>079 099 113</b>		34-35; 245-24; 236-35	-	-
55	23.53	5:2 6:4	<b>119 150</b>		246-34; 236-246	-	-
56	23.63	5:2	<b>078 083 112 108</b>		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.84	5:2 6:4	<b>097 152 086</b>		245-23; 2356-26; 2345-2	-	-
58	24.01	5:2	<b>081 087 117 125 115 145</b>		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.17	5:2	<b>116 085 111</b>		23456; 234-24; 235-35	-	-
60	24.29	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.42	5:2	<b>077 110 148</b>		34-34; 236-34; 235-246	-	-
62	24.69	6:3	<b>154</b>		245-246	-	-
63	24.79	5:2	<b>082</b>		234-23	-	-
64	25.08	6:3	<b>151</b>		2356-25	-	-
65	25.22	5:1 6:3	<b>124 135</b>		345-25; 235-236	-	-
66	25.28	6:3	<b>144</b>		2346-25	-	-
67	25.34	5:1 6:3	<b>107 109 147</b>		234-35; 235-34; 2356-24	-	-
68	25.43	5:1	<b>123</b>		345-24	-	-
69	25.53	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.64	6:3	<b>140</b>		234-246	-	-
71	25.93	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.55	5:1 6:3	<b>105 132 161</b>		234-34; 234-236; 2346-35	-	-
75	26.70	6:2	<b>153</b>		245-245	-	-
76	26.81	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	<b>141</b>		2345-25	-	-
78	27.31	7:4	<b>179</b>		2356-236	-	-
79	27.51	6:2	<b>137</b>		2345-24	-	-
80	27.68	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.89	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.08	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.63	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.94	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.08	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.20	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.39	7:3	<b>183</b>		2346-245	-	-
91	29.64	6:1	<b>167</b>		245-345	-	-
92	29.99	7:3	<b>185</b>		23456-25	-	-
93	30.37	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.64	7:3	<b>177</b>		2356-234	-	-
95	30.94	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.20	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.38	7:3	<b>173</b>		23456-23	-	-
99	31.75	8:4	<b>201</b>		2346-2356	-	-
100	32.00	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.29	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.48	7:2	<b>180</b>		2345-245	-	-
103	32.72	7:2	<b>193</b>		2356-345	-	-
104	33.03	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 143 ng/L

Total Nanomoles = 0.627

Average Molecular Weight = 227.9

Number of Calibrated Peaks Found = 3

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 970 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

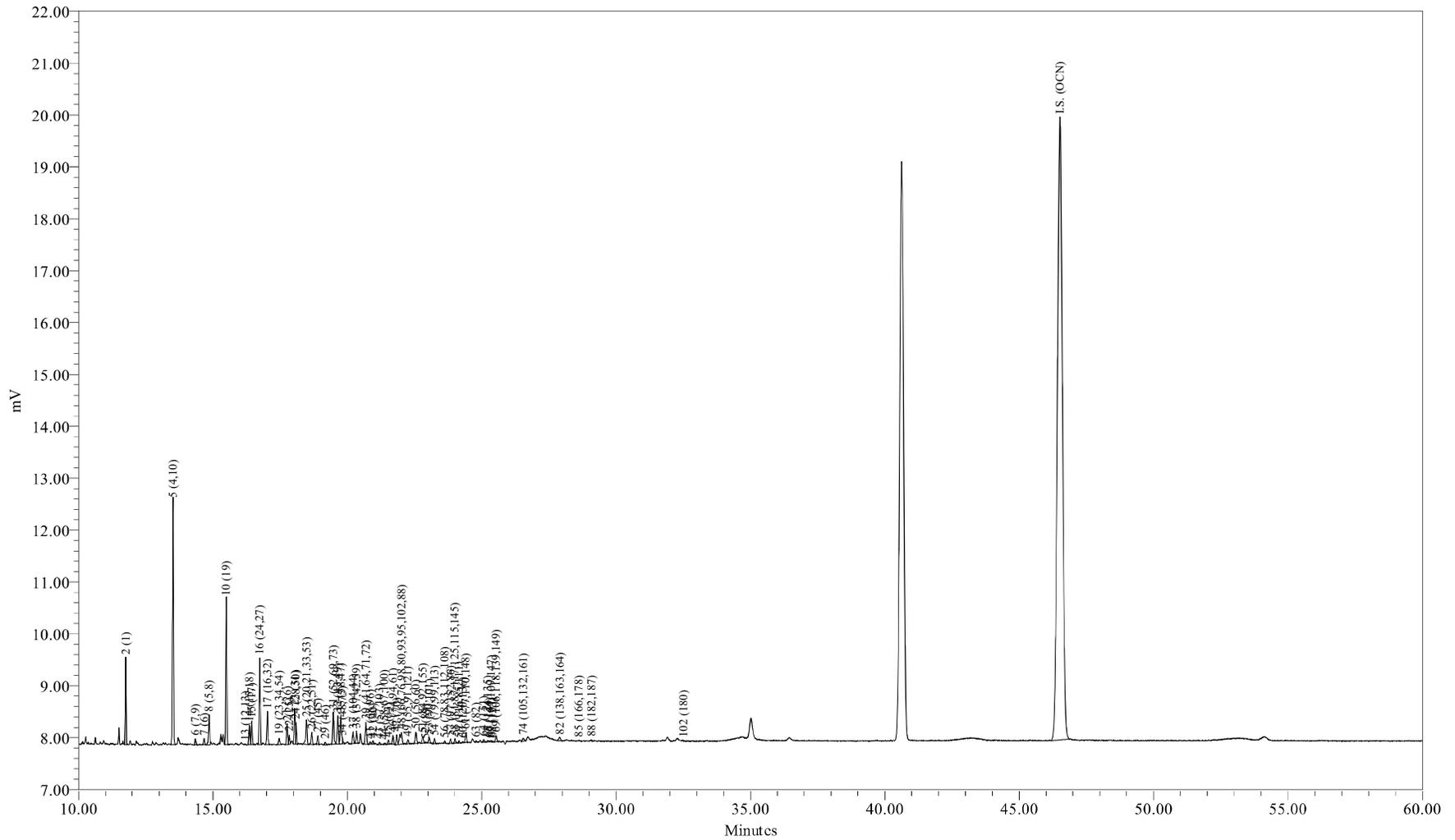
SDG No: 09070314  
LRF ID: 09070314-03  
Client ID: WFF-THIS-090727-BT001  
Lab Sample ID: AM11302  
Lab File ID: GC25-129-10  
Date Received: 07/27/2009  
Date Extracted: 07/27/2009  
Date/Time Analyzed: 07/28/2009 22:06  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 152297

Percent Recovery (50 - 150 %): 94.0

SAMPLE TOTAL PCB CONCENTRATION: 243 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM11302  
Sample ID: WFF-THIS-090727-BT001  
Date Acquired: 7/28/2009 10:06:46 PM EDT

Sample Amount (L) : 0.9700  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-129-10

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 22:06:46  
 Lab Sample ID: AM11302  
 LRF ID: 09070314-03  
 Lab File ID: GC25-129-10

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 243 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	31.18	36.24
Di	45.36	44.57
Tri	16.65	14.18
Tetra	5.26	3.97
Penta	1.39	0.93
Hexa	0.11	0.07
Hepta	0.04	0.02
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	75.8896	95.1	95.4
A1242	23+24/31+28	3.4256	4.29	4.30
A1254SED	61/100	0.4676	0.586	
A1254BIO	69+75+82/149+153+138	0.2723		0.342
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.64

Meta + Para Cl / biphenyl Residue = 0.25

Total Cl / biphenyl Residue = 1.89

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 22:06:46  
 Lab Sample ID: AM11302  
 LRF ID: 09070314-03  
 Lab File ID: GC25-129-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.76	188.7	3041	75.9	402	0.545	2.26	
3	12.78	188.7				6.83	1030	U
4	12.89	188.7				0.366	1.32	U
5	13.52	223.1	1434	106	474	1.38	6.41	B
6	14.35	223.1	317	0.437	1.96	0.0743	0.226	
7	14.67	223.1	266	0.770	3.45	0.163	0.358	
8	14.86	223.1	1549	2.91	13.0	0.559	2.64	
9	15.42	223.1				0.303	25.8	U
10	15.50	257.5	732	15.5	60.2	0.623	1.06	
11	15.97	257.5				0.205	25.8	U
12	16.03	223.1				0.316	25.8	U
13	16.20	223.1	58	0.109	0.487	0.0576	0.101	
14	16.36	249.0	1028	2.16	8.68	0.132	0.697	
15	16.45	257.5	1199	4.45	17.3	0.148	0.697	B
16	16.74	257.5	405	5.27	20.5	0.386	0.490	
17	17.03	257.5	1837	3.71	14.4	0.171	0.735	
19	17.46	267.9	389	0.639	2.39	0.132	25.8	J
20	17.63	257.5				0.0111	0.0200	U
21	17.76	257.5	1129	1.77	6.87	0.0625	0.136	B
22	17.84	257.5	533	0.615	2.39	0.0439	0.0603	B
23	18.04	257.5	1999	2.43	9.45	0.503	0.777	
24	18.09	257.5	1038	0.993	3.86	0.217	0.994	J
25	18.48	259.5	1605	2.28	8.78	0.109	0.748	
26	18.68	258.7	696	1.07	4.12	0.123	0.546	
27	18.90	292.0	504	0.709	2.43	0.0378	0.168	B
28	19.04	257.5				0.387	25.8	U
29	19.18	292.0	197	0.326	1.12	0.131	0.131	
30	19.31	257.5				0.124	25.8	U
31	19.48	292.0	1881	3.40	11.7	0.210	0.899	
32	19.64	292.0	1675	1.51	5.17	0.101	0.433	B
33	19.76	292.0	1729	1.11	3.80	0.0676	0.188	B
34	19.82	292.0	194	0.146	0.501	0.0596	0.188	JB
35	19.96	292.0				0.211	25.8	U
36	20.04	257.5				0.149	25.8	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.22	292.0	675	0.732	2.51	0.165	0.810	J
38	20.34	272.4	718	0.907	3.33	0.118	0.490	
39	20.69	292.0	1452	1.21	4.14	0.125	0.772	
41	20.86	326.4	164	0.254	0.778	0.118	25.8	J
42	20.96	292.0	181	0.211	0.722	0.0998	0.177	
43	21.19	298.9	135			0.157	25.8	U
44	21.38	298.9	120	0.0983	0.329	0.0232	0.0414	
45	21.53	292.0	244	0.201	0.690	0.0308	0.0396	
46	21.70	292.0	506	0.266	0.912	0.0846	0.358	J
47	21.84	292.0	596	0.339	1.16	0.169	0.641	J
48	22.02	293.5	1389	1.40	4.78	0.251	1.36	
49	22.26	324.7	247	0.265	0.817	0.0388	0.0961	
50	22.55	292.0	765	0.473	1.62	0.371	0.659	J
51	22.81	326.4	461	0.972	2.98	0.0915	0.339	
52	22.91	326.4	47	0.0513	0.157	0.0396	0.0396	B
53	23.05	326.4	350	0.311	0.954	0.0712	0.339	J
54	23.25	326.4	321	0.206	0.631	0.104	0.139	
55	23.53	326.4				0.00664	0.0106	U
56	23.62	326.4	119	0.133	0.409	0.0667	0.0667	
57	23.85	326.4	291	0.201	0.616	0.0448	0.105	B
58	24.01	326.4	263	0.174	0.532	0.0867	0.219	J
59	24.16	326.4	98			0.0499	0.132	U
60	24.30	360.9	28			0.0796	0.141	U
61	24.41	326.4	576	0.468	1.43	0.0689	0.401	
62	24.69	360.9				0.116	25.8	U
63	24.79	326.4	67	0.0515	0.158	0.0207	0.0829	J
64	25.07	360.9	178	0.0883	0.245	0.0534	0.320	J
65	25.22	350.5	71	0.0375	0.107	0.0154	0.0546	JB
66	25.28	360.9	36			0.0557	0.113	U
67	25.35	336.8	83	0.0700	0.208	0.0359	0.0490	
68	25.41	326.4	28			0.129	25.8	U
69	25.54	337.5	435	0.170	0.503	0.0967	0.754	J
70	25.64	360.9				0.0854	25.8	U
71	25.93	347.8				0.0359	0.0380	U
72	26.14	336.8				0.00658	0.0110	U
73	26.42	360.9				0.0330	0.0735	U
74	26.54	347.8	250	0.135	0.388	0.0743	0.255	J
75	26.70	360.9				0.112	0.555	U
76	26.81	360.9				0.110	25.8	U
77	27.24	360.9				0.0657	0.320	U
78	27.31	395.3				0.0485	0.275	U
79	27.51	360.9				0.0516	0.0516	U
80	27.68	360.9				0.0155	0.0490	U
82	27.91	360.9	327			0.111	0.509	U
83	28.08	360.9				0.0464	0.0471	U
84	28.29	360.9				0.00319	0.00488	U
85	28.61	395.3	71	0.105	0.266	0.0698	0.207	J
87	28.94	395.3				0.0161	0.0754	U
88	29.09	395.3	82			0.105	0.678	U
89	29.20	360.9				0.0206	0.0377	U
90	29.39	395.3				0.0700	0.320	U
91	29.64	360.9				0.0359	0.0359	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.0232	0.0885	U
93	30.37	394.3				0.106	0.603	U
94	30.64	394.3				0.0965	0.320	U
95	30.94	382.2				0.0898	0.149	U
96	31.20	429.8				0.00971	0.0125	U
98	31.38	395.3				0.0138	0.0143	U
99	31.75	429.8				0.0890	0.0890	U
100	32.00	395.3				0.131	0.131	U
101	32.29	429.8				0.224	0.224	U
102	32.51	395.3	49			0.155	1.15	U
103	32.72	395.3				0.0659	0.0791	U
104	33.03	395.3				0.0386	0.0452	U
105	33.38	429.8				0.0475	0.0810	U
106	34.53	395.3				0.0555	0.241	U
107	34.81	395.3				0.0219	0.0791	U
108	35.68	429.8				0.0334	0.0452	U
109	35.92	429.8				0.119	0.791	U
110	36.46	429.8				0.190	0.810	U
111	37.64	395.3				0.0238	0.0238	U
112	39.18	429.8				0.0379	0.104	U
113	39.72	464.2				0.0452	0.0931	U
114	40.65	464.2				0.0159	0.0350	U
115	42.06	429.8				0.0999	0.339	U
116	42.97	429.8				0.0864	0.0864	U
117	48.12	464.2				0.0395	0.128	U
118	54.13	498.6				0.0130	0.0130	U

Total Concentration = 243 ng/L

11.5 40.3

Total Nanomoles = 1.110

Average Molecular Weight = 219.4

Number of Calibrated Peaks Found = 59

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 152297.3

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 22:06:46  
 Lab Sample ID: AM11302  
 LRF ID: 09070314-03  
 Lab File ID: GC25-129-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	31.180	36.244
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.52	2:2	004 010	0.2907	2-2; 26	43.403	42.673
6	14.35	2:1	007 009	0.3085	24; 25	0.180	0.177
7	14.67	2:1	006	0.3154	2-3	0.316	0.311
8	14.86	2:1	005 008	0.3195	23; 2-4	1.195	1.175
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	6.373	5.429
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.20	2:0	012 013	0.3483	34; 3-4	0.045	0.044
14	16.36	2:0 3:2	015 018	0.3518	4-4; 25-2	0.888	0.782
15	16.45	3:2	017	0.3537	24-2	1.830	1.559
16	16.74	3:2	024 027	0.3599	236; 26-3	2.164	1.844
17	17.03	3:2	016 032	0.3662	23-2; 26-4	1.526	1.300
19	17.46	3:1 4:4	023 034 054	0.3754	235; 35-2; 26-26	0.263	0.215
20	17.63	3:1	029		245	-	-
21	17.76	3:1	026	0.3819	25-3	0.727	0.619
22	17.84	3:1	025	0.3836	24-3	0.253	0.215
23	18.04	3:1	031	0.3879	25-4	0.999	0.851
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	0.408	0.348
25	18.48	3:1 4:3	020 021 033 053	0.3973	23-3; 234; 34-2; 25-26	0.937	0.792
26	18.68	3:1 4:3	022 051	0.4016	23-4; 24-26	0.438	0.372
27	18.90	4:3	045	0.4064	236-2	0.291	0.219
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046	0.4124	23-26	0.134	0.101
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4188	25-25; 246-3; 26-35	1.399	1.051
32	19.64	4:2	043 049	0.4223	235-2; 24-25	0.620	0.465
33	19.76	4:2	038 047	0.4249	345; 24-24	0.456	0.343
34	19.82	4:2	048 075	0.4261	245-2; 246-4	0.060	0.045
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.22	5:4 4:2	104 044	0.4347	246-26; 23-25	0.301	0.226
38	20.34	3:0 4:2	037 042 059	0.4373	34-4; 23-24; 236-3	0.372	0.300

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
39	20.69	4:2	041 064 071 072	0.4449	234-2; 236-4; 26-34; 25-35	0.497	0.373
41	20.86	5:4	068 096	0.4485	24-35; 236-26	0.104	0.070
42	20.96	4:2	040	0.4507	23-23	0.087	0.065
43	21.19	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.38	4:1 5:3	058 067 100	0.4597	23-35; 245-3; 246-24	0.040	0.030
45	21.53	4:1	063	0.4629	235-4	0.083	0.062
46	21.70	4:1 5:3	074 094 061	0.4666	245-4; 235-26; 2345	0.109	0.082
47	21.84	4:1	070	0.4696	25-34	0.139	0.104
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088	0.4734	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.576	0.430
49	22.26	4:1 5:3	055 091 121	0.4786	234-3; 236-24; 246-35	0.109	0.074
50	22.55	4:1	056 060	0.4848	23-34; 234-4	0.194	0.146
51	22.81	5:3 6:4	084 092 155	0.4904	236-23; 235-25; 246-246	0.399	0.268
52	22.91	5:3	089	0.4926	234-26	0.021	0.014
53	23.05	5:2	090 101	0.4956	235-24; 245-25	0.128	0.086
54	23.25	5:2	079 099 113	0.4999	34-35; 245-24; 236-35	0.085	0.057
55	23.53	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.62	5:2	078 083 112 108	0.5078	345-3; 235-23; 2356-3; 2346-3	0.055	0.037
57	23.85	5:2 6:4	097 152 086	0.5128	245-23; 2356-26; 2345-2	0.083	0.056
58	24.01	5:2	081 087 117 125 115 145	0.5162	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.071	0.048
59	24.16	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.30	6:4	120 136		245-35; 236-236	-	-
61	24.41	5:2	077 110 148	0.5248	34-34; 236-34; 235-246	0.192	0.129
62	24.69	6:3	154		245-246	-	-
63	24.79	5:2	082	0.5330	234-23	0.021	0.014
64	25.07	6:3	151	0.5390	2356-25	0.036	0.022
65	25.22	5:1 6:3	124 135	0.5422	345-25; 235-236	0.015	0.010
66	25.28	6:3	144		2346-25	-	-
67	25.35	5:1 6:3	107 109 147	0.5450	234-35; 235-34; 2356-24	0.029	0.019
68	25.41	5:1	123		345-24	-	-
69	25.54	5:1 6:3	106 118 139 149	0.5491	2345-3; 245-34; 2346-24; 236-245	0.070	0.045
70	25.64	6:3	140		234-246	-	-
71	25.93	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.54	5:1 6:3	105 132 161	0.5706	234-34; 234-236; 2346-35	0.055	0.035
75	26.70	6:2	153		245-245	-	-
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	141		2345-25	-	-
78	27.31	7:4	179		2356-236	-	-
79	27.51	6:2	137		2345-24	-	-
80	27.68	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.91	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.08	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	126 129		345-34; 2345-23	-	-
85	28.61	7:3	166 178	0.6151	23456-4; 2356-235	0.043	0.024
87	28.94	7:3	175 159		2346-235; 2345-35	-	-
88	29.09	7:3	182 187		2345-246; 2356-245	-	-
89	29.20	6:2	128 162		234-234; 235-345	-	-
90	29.39	7:3	183		2346-245	-	-
91	29.64	6:1	167		245-345	-	-
92	29.99	7:3	185		23456-25	-	-
93	30.37	7:3	174 181		2345-236; 23456-24	-	-
94	30.64	7:3	177		2356-234	-	-
95	30.94	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.20	8:4	157 202		234-345; 2356-2356	-	-
98	31.38	7:3	173		23456-23	-	-
99	31.75	8:4	201		2346-2356	-	-
100	32.00	7:2	172 204		2345-235; 23456-246	-	-
101	32.29	8:4	192 197		23456-35; 2346-2346	-	-
102	32.51	7:2	180		2345-245	-	-
103	32.72	7:2	193		2356-345	-	-
104	33.03	7:2	191		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 243 ng/L

Total Nanomoles = 1.110

Average Molecular Weight = 219.4

Number of Calibrated Peaks Found = 59

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

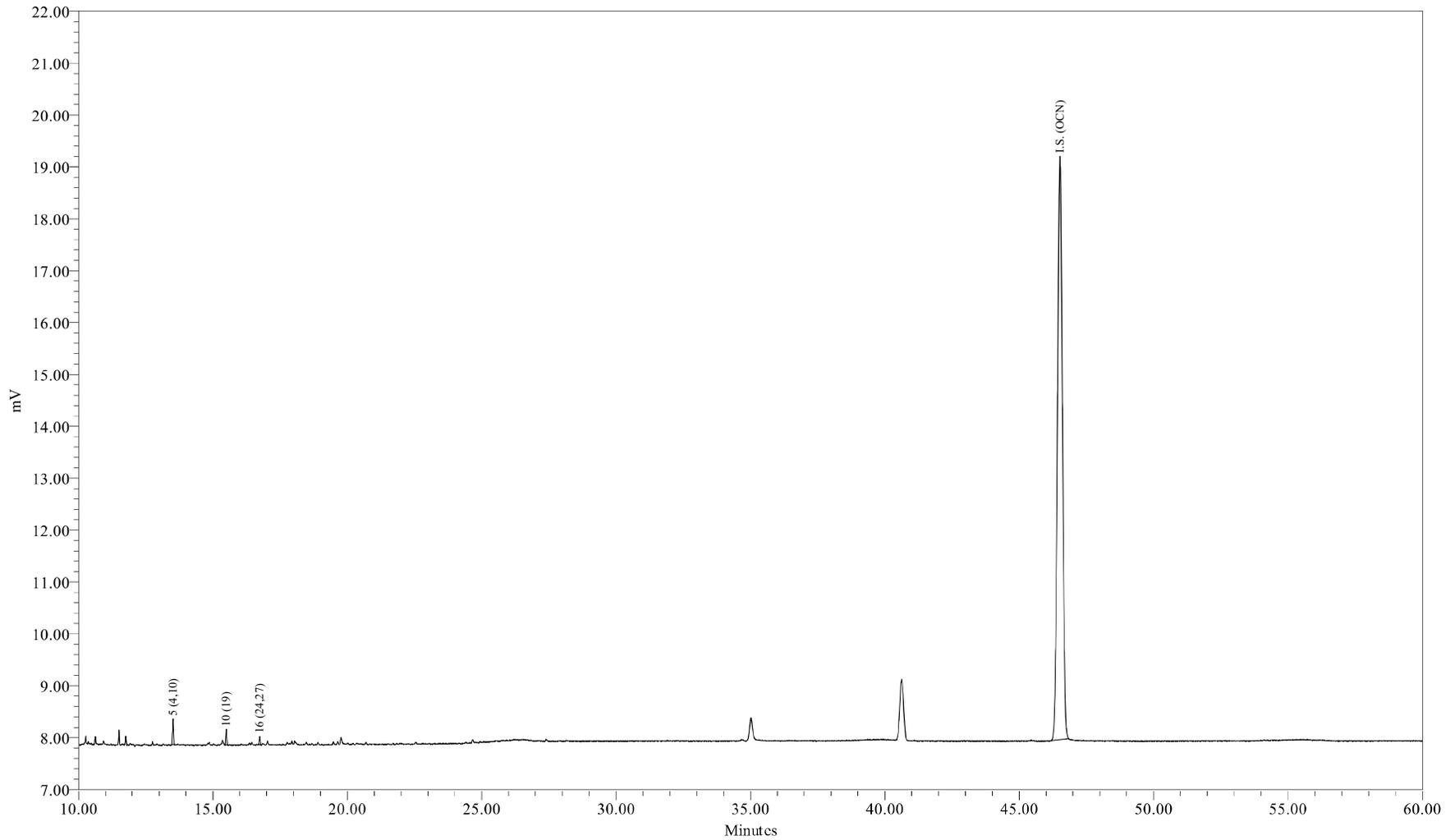
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



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Sample Name: AM11302DL1  
Sample ID: WFF-THIS-090727-BT001  
Date Acquired: 7/28/2009 11:12:14 PM EDT

Sample Amount (L) : 0.9700  
Dilution: 50  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-129-11

Sample Name: AM11302DL1

1 of 1

Northeast Analytical, Inc.  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 23:12:14  
 Lab Sample ID: AM11302DL1  
 LRF ID: 09070314-03DL1  
 Lab File ID: GC25-129-11

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 126 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	83.56	85.44
Tri	16.44	14.56
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.11

Meta + Para Cl / biphenyl Residue = 0.04

Total Cl / biphenyl Residue = 2.15

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 23:12:14  
 Lab Sample ID: AM11302DL1  
 LRF ID: 09070314-03DL1  
 Lab File ID: GC25-129-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.75	188.7				5.45	22.6	U
3	12.78	188.7				68.3	10300	U
4	12.89	188.7				3.66	13.2	U
5	13.52	223.1	1434	106	474	1.38	6.41	B
6	14.35	223.1				0.743	2.26	U
7	14.67	223.1				1.63	3.58	U
8	14.86	223.1				5.59	26.4	U
9	15.42	223.1				3.03	258	U
10	15.50	257.5	732	15.5	60.2	0.623	1.06	
11	15.97	257.5				2.05	258	U
12	16.03	223.1				3.16	258	U
13	16.23	223.1				0.576	1.01	U
14	16.36	249.0				1.32	6.97	U
15	16.44	257.5				1.48	6.97	U
16	16.74	257.5	405	5.27	20.5	0.386	0.490	
17	17.02	257.5				1.71	7.35	U
19	17.46	267.9				1.32	258	U
20	17.63	257.5				0.111	0.200	U
21	17.76	257.5				0.625	1.36	U
22	17.84	257.5				0.439	0.603	U
23	18.04	257.5				5.03	7.77	U
24	18.09	257.5				2.17	9.94	U
25	18.44	259.5				1.09	7.48	U
26	18.67	258.7				1.23	5.46	U
27	18.91	292.0				0.378	1.68	U
28	19.04	257.5				3.87	258	U
29	19.18	292.0				1.31	1.31	U
30	19.31	257.5				1.24	258	U
31	19.48	292.0				2.10	8.99	U
32	19.65	292.0				1.01	4.33	U
33	19.76	292.0				0.676	1.88	U
34	19.82	292.0				0.596	1.88	U
35	19.96	292.0				2.11	258	U
36	20.04	257.5				1.49	258	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.22	292.0				1.65	8.10	U
38	20.35	272.4				1.18	4.90	U
39	20.69	292.0				1.25	7.72	U
41	20.86	326.4				1.18	258	U
42	20.96	292.0				0.998	1.77	U
43	21.21	298.9				1.57	258	U
44	21.38	298.9				0.232	0.414	U
45	21.53	292.0				0.308	0.396	U
46	21.70	292.0				0.846	3.58	U
47	21.84	292.0				1.69	6.41	U
48	21.95	293.5				2.51	13.6	U
49	22.26	324.7				0.388	0.961	U
50	22.56	292.0				3.71	6.59	U
51	22.80	326.4				0.915	3.39	U
52	22.91	326.4				0.396	0.396	U
53	23.06	326.4				0.712	3.39	U
54	23.25	326.4				1.04	1.39	U
55	23.53	326.4				0.0664	0.106	U
56	23.63	326.4				0.667	0.667	U
57	23.84	326.4				0.448	1.05	U
58	24.01	326.4				0.867	2.19	U
59	24.17	326.4				0.499	1.32	U
60	24.29	360.9				0.796	1.41	U
61	24.42	326.4				0.689	4.01	U
62	24.69	360.9				1.16	258	U
63	24.79	326.4				0.207	0.829	U
64	25.08	360.9				0.534	3.20	U
65	25.22	350.5				0.154	0.546	U
66	25.28	360.9				0.557	1.13	U
67	25.34	336.8				0.359	0.490	U
68	25.43	326.4				1.29	258	U
69	25.53	337.5				0.967	7.54	U
70	25.64	360.9				0.854	258	U
71	25.93	347.8				0.359	0.380	U
72	26.14	336.8				0.0658	0.110	U
73	26.42	360.9				0.330	0.735	U
74	26.55	347.8				0.743	2.55	U
75	26.70	360.9				1.12	5.55	U
76	26.81	360.9				1.10	258	U
77	27.24	360.9				0.657	3.20	U
78	27.31	395.3				0.485	2.75	U
79	27.51	360.9				0.516	0.516	U
80	27.68	360.9				0.155	0.490	U
82	27.89	360.9				1.11	5.09	U
83	28.08	360.9				0.464	0.471	U
84	28.29	360.9				0.0319	0.0488	U
85	28.63	395.3				0.698	2.07	U
87	28.94	395.3				0.161	0.754	U
88	29.08	395.3				1.05	6.78	U
89	29.20	360.9				0.206	0.377	U
90	29.39	395.3				0.700	3.20	U
91	29.64	360.9				0.359	0.359	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.232	0.885	U
93	30.37	394.3				1.06	6.03	U
94	30.64	394.3				0.965	3.20	U
95	30.94	382.2				0.898	1.49	U
96	31.20	429.8				0.0971	0.125	U
98	31.38	395.3				0.138	0.143	U
99	31.75	429.8				0.890	0.890	U
100	32.00	395.3				1.31	1.31	U
101	32.29	429.8				2.24	2.24	U
102	32.48	395.3				1.55	11.5	U
103	32.72	395.3				0.659	0.791	U
104	33.03	395.3				0.386	0.452	U
105	33.38	429.8				0.475	0.810	U
106	34.53	395.3				0.555	2.41	U
107	34.81	395.3				0.219	0.791	U
108	35.68	429.8				0.334	0.452	U
109	35.92	429.8				1.19	7.91	U
110	36.46	429.8				1.90	8.10	U
111	37.64	395.3				0.238	0.238	U
112	39.18	429.8				0.379	1.04	U
113	39.72	464.2				0.452	0.931	U
114	40.65	464.2				0.159	0.350	U
115	42.06	429.8				0.999	3.39	U
116	42.97	429.8				0.864	0.864	U
117	48.12	464.2				0.395	1.28	U
118	54.13	498.6				0.130	0.130	U

Total Concentration = 126 ng/L 93.9 332 J

Total Nanomoles = 0.554

Average Molecular Weight = 228.1

Number of Calibrated Peaks Found = 3

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 141852.6

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 23:12:14  
 Lab Sample ID: AM11302DL1  
 LRF ID: 09070314-03DL1  
 Lab File ID: GC25-129-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.75	1:1	001		2	-	-
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.52	2:2	004 010	0.2907	2-2; 26	83.564	85.440
6	14.35	2:1	007 009		24; 25	-	-
7	14.67	2:1	006		2-3	-	-
8	14.86	2:1	005 008		23; 2-4	-	-
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	12.269	10.869
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013		34; 3-4	-	-
14	16.36	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.44	3:2	017		24-2	-	-
16	16.74	3:2	024 027	0.3599	236; 26-3	4.167	3.692
17	17.02	3:2	016 032		23-2; 26-4	-	-
19	17.46	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.63	3:1	029		245	-	-
21	17.76	3:1	026		25-3	-	-
22	17.84	3:1	025		24-3	-	-
23	18.04	3:1	031		25-4	-	-
24	18.09	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.44	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.67	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.91	4:3	045		236-2	-	-
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046		23-26	-	-
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.65	4:2	043 049		235-2; 24-25	-	-
33	19.76	4:2	038 047		345; 24-24	-	-
34	19.82	4:2	048 075		245-2; 246-4	-	-
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.22	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.35	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	<b>041 064 071 072</b>		234-2; 236-4; 26-34; 25-35	-	-
41	20.86	5:4	<b>068 096</b>		24-35; 236-26	-	-
42	20.96	4:2	<b>040</b>		23-23	-	-
43	21.21	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.38	4:1 5:3	<b>058 067 100</b>		23-35; 245-3; 246-24	-	-
45	21.53	4:1	<b>063</b>		235-4	-	-
46	21.70	4:1 5:3	<b>074 094 061</b>		245-4; 235-26; 2345	-	-
47	21.84	4:1	<b>070</b>		25-34	-	-
48	21.95	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.26	4:1 5:3	<b>055 091 121</b>		234-3; 236-24; 246-35	-	-
50	22.56	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.80	5:3 6:4	<b>084 092 155</b>		236-23; 235-25; 246-246	-	-
52	22.91	5:3	<b>089</b>		234-26	-	-
53	23.06	5:2	<b>090 101</b>		235-24; 245-25	-	-
54	23.25	5:2	<b>079 099 113</b>		34-35; 245-24; 236-35	-	-
55	23.53	5:2 6:4	<b>119 150</b>		246-34; 236-246	-	-
56	23.63	5:2	<b>078 083 112 108</b>		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.84	5:2 6:4	<b>097 152 086</b>		245-23; 2356-26; 2345-2	-	-
58	24.01	5:2	<b>081 087 117 125 115 145</b>		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.17	5:2	<b>116 085 111</b>		23456; 234-24; 235-35	-	-
60	24.29	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.42	5:2	<b>077 110 148</b>		34-34; 236-34; 235-246	-	-
62	24.69	6:3	<b>154</b>		245-246	-	-
63	24.79	5:2	<b>082</b>		234-23	-	-
64	25.08	6:3	<b>151</b>		2356-25	-	-
65	25.22	5:1 6:3	<b>124 135</b>		345-25; 235-236	-	-
66	25.28	6:3	<b>144</b>		2346-25	-	-
67	25.34	5:1 6:3	<b>107 109 147</b>		234-35; 235-34; 2356-24	-	-
68	25.43	5:1	<b>123</b>		345-24	-	-
69	25.53	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.64	6:3	<b>140</b>		234-246	-	-
71	25.93	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.55	5:1 6:3	<b>105 132 161</b>		234-34; 234-236; 2346-35	-	-
75	26.70	6:2	<b>153</b>		245-245	-	-
76	26.81	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	<b>141</b>		2345-25	-	-
78	27.31	7:4	<b>179</b>		2356-236	-	-
79	27.51	6:2	<b>137</b>		2345-24	-	-
80	27.68	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.89	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.08	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.63	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.94	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.08	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.20	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.39	7:3	<b>183</b>		2346-245	-	-
91	29.64	6:1	<b>167</b>		245-345	-	-
92	29.99	7:3	<b>185</b>		23456-25	-	-
93	30.37	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.64	7:3	<b>177</b>		2356-234	-	-
95	30.94	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.20	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.38	7:3	<b>173</b>		23456-23	-	-
99	31.75	8:4	<b>201</b>		2346-2356	-	-
100	32.00	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.29	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.48	7:2	<b>180</b>		2345-245	-	-
103	32.72	7:2	<b>193</b>		2356-345	-	-
104	33.03	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 126 ng/L

Total Nanomoles = 0.554

Average Molecular Weight = 228.1

Number of Calibrated Peaks Found = 3

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 1060 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

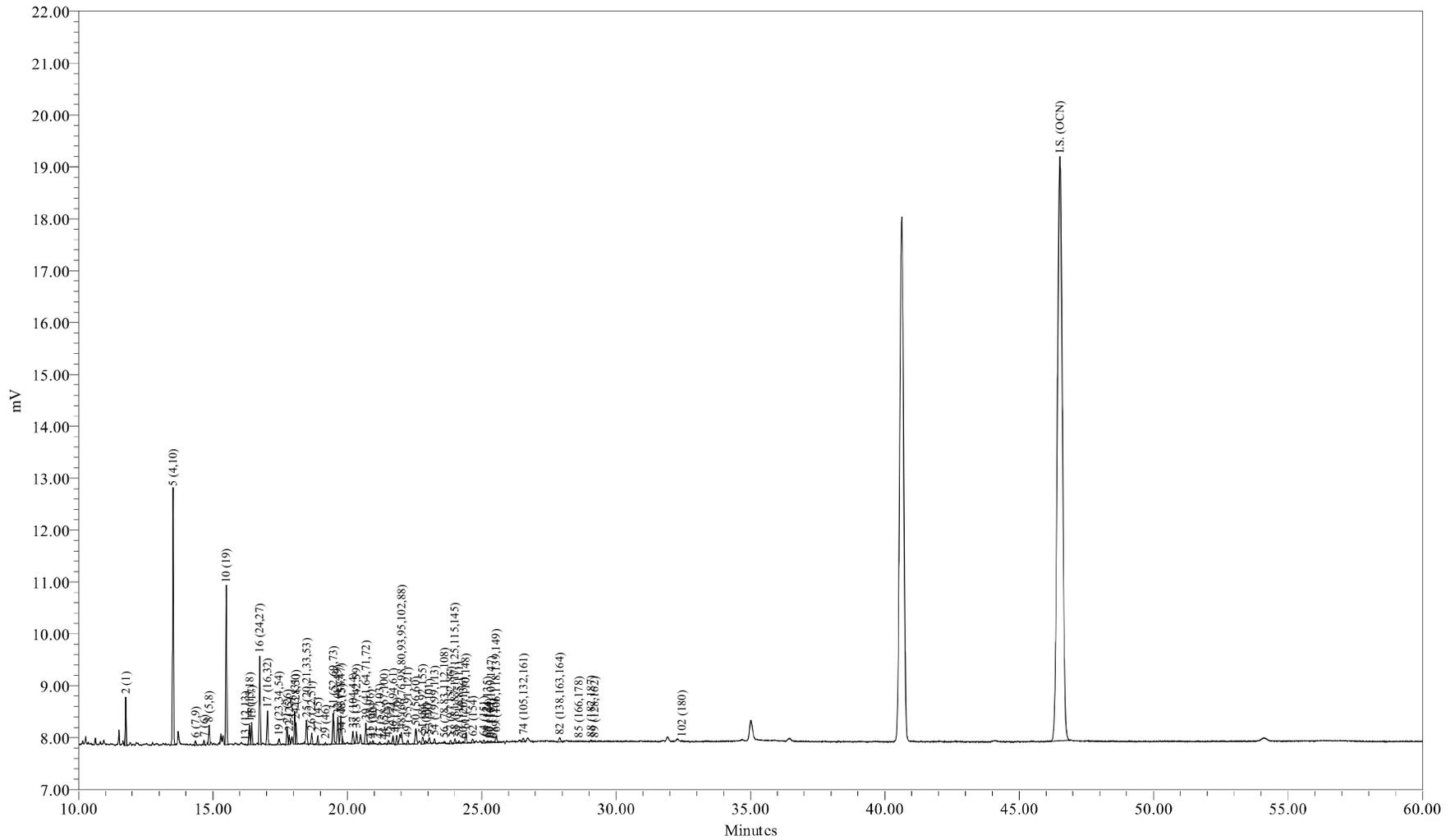
SDG No: 09070314  
LRF ID: 09070314-04  
Client ID: WFF-TIDA-090727-BT001  
Lab Sample ID: AM11303  
Lab File ID: GC25-129-12  
Date Received: 07/27/2009  
Date Extracted: 07/27/2009  
Date/Time Analyzed: 07/29/2009 00:17  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 143573

Percent Recovery (50 - 150 %): 88.6

SAMPLE TOTAL PCB CONCENTRATION: 196 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM11303  
Sample ID: WFF-TIDA-090727-BT001  
Date Acquired: 7/29/2009 12:17:44 AM EDT

Sample Amount (L) : 1.0600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-129-12

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 00:17:44  
 Lab Sample ID: AM11303  
 LRF ID: 09070314-04  
 Lab File ID: GC25-129-12

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 196 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	21.01	25.11
Di	50.73	51.23
Tri	19.78	17.31
Tetra	6.13	4.75
Penta	1.94	1.34
Hexa	0.40	0.26
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	41.1360	91.9	92.2
A1242	23+24/31+28	3.1018	6.93	6.95
A1254SED	61/100	0.5221	1.17	
A1254BIO	69+75+82/149+153+138	0.3782		0.848
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.76

Meta + Para Cl / biphenyl Residue = 0.31

Total Cl / biphenyl Residue = 2.07

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 00:17:44  
 Lab Sample ID: AM11303  
 LRF ID: 09070314-04  
 Lab File ID: GC25-129-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.76	188.7	1703	41.1	218	0.529	2.19	
3	12.78	188.7				6.63	1000	U
4	12.89	188.7				0.355	1.28	U
5	13.52	223.1	1479	96.2	431	1.34	6.21	B
6	14.35	223.1	246	0.324	1.45	0.0721	0.219	
7	14.67	223.1	189	0.521	2.34	0.158	0.347	
8	14.86	223.1	951	1.66	7.46	0.542	2.56	J
9	15.42	223.1				0.294	25.0	U
10	15.50	257.5	804	15.1	58.5	0.604	1.02	
11	15.97	257.5				0.198	25.0	U
12	16.03	223.1				0.306	25.0	U
13	16.20	223.1	19			0.0559	0.0975	U
14	16.36	249.0	1071	2.20	8.83	0.128	0.676	
15	16.45	257.5	1121	4.04	15.7	0.143	0.676	B
16	16.74	257.5	488	5.61	21.8	0.374	0.475	
17	17.03	257.5	1803	3.54	13.8	0.166	0.713	
19	17.46	267.9	454	0.723	2.70	0.128	25.0	J
20	17.63	257.5				0.0108	0.0194	U
21	17.76	257.5	997	1.52	5.89	0.0606	0.132	B
22	17.84	257.5	528	0.592	2.30	0.0426	0.0585	B
23	18.04	257.5	1771	2.09	8.11	0.487	0.753	
24	18.09	257.5	1072	1.01	3.94	0.211	0.964	
25	18.48	259.5	1410	1.94	7.47	0.105	0.726	
26	18.68	258.7	543	0.807	3.12	0.120	0.530	
27	18.91	292.0	506	0.692	2.37	0.0367	0.163	B
28	19.04	257.5				0.375	25.0	U
29	19.19	292.0	125	0.203	0.694	0.127	0.127	
30	19.31	257.5				0.120	25.0	U
31	19.48	292.0	1748	3.07	10.5	0.204	0.872	
32	19.64	292.0	1526	1.33	4.56	0.0978	0.420	B
33	19.76	292.0	1626	1.01	3.47	0.0656	0.183	B
34	19.80	292.0	306	0.250	0.855	0.0579	0.183	B
35	19.96	292.0				0.205	25.0	U
36	20.04	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.21	292.0	704	0.751	2.57	0.160	0.786	J
38	20.34	272.4	699	0.860	3.16	0.115	0.475	
39	20.69	292.0	1302	1.05	3.58	0.121	0.749	
41	20.85	326.4	139	0.209	0.640	0.115	25.0	J
42	20.95	292.0	151	0.170	0.583	0.0968	0.172	J
43	21.20	298.9	148	0.159	0.532	0.152	25.0	J
44	21.38	298.9	60	0.0482	0.161	0.0225	0.0402	
45	21.53	292.0	211	0.169	0.578	0.0299	0.0384	
46	21.70	292.0	451	0.228	0.780	0.0821	0.347	J
47	21.84	292.0	514	0.272	0.933	0.164	0.621	J
48	22.02	293.5	1330	1.31	4.45	0.243	1.32	J
49	22.25	324.7	251	0.262	0.806	0.0376	0.0932	
50	22.55	292.0	1016	0.659	2.26	0.359	0.640	
51	22.80	326.4	513	1.06	3.23	0.0888	0.329	
52	22.91	326.4	213	0.226	0.692	0.0384	0.0384	B
53	23.05	326.4	456	0.404	1.24	0.0691	0.329	
54	23.25	326.4	231	0.145	0.443	0.101	0.135	
55	23.53	326.4				0.00644	0.0102	U
56	23.61	326.4	133	0.144	0.443	0.0647	0.0647	
57	23.84	326.4	271	0.181	0.556	0.0435	0.102	B
58	24.00	326.4	309	0.210	0.644	0.0841	0.212	J
59	24.16	326.4	135	0.0695	0.213	0.0484	0.128	J
60	24.31	360.9	92			0.0772	0.137	U
61	24.41	326.4	643	0.522	1.60	0.0668	0.389	
62	24.67	360.9	243	0.216	0.599	0.113	25.0	J
63	24.79	326.4				0.0201	0.0804	U
64	25.08	360.9	218	0.123	0.342	0.0518	0.311	J
65	25.21	350.5	130	0.0664	0.189	0.0149	0.0530	B
66	25.28	360.9	45	0.0637	0.177	0.0541	0.110	JB
67	25.35	336.8	105	0.0869	0.258	0.0348	0.0475	
68	25.44	326.4	36			0.125	25.0	U
69	25.54	337.5	499	0.225	0.668	0.0938	0.731	J
70	25.64	360.9				0.0829	25.0	U
71	25.93	347.8				0.0348	0.0369	U
72	26.14	336.8				0.00638	0.0106	U
73	26.42	360.9				0.0320	0.0713	U
74	26.55	347.8	272	0.144	0.415	0.0721	0.248	J
75	26.70	360.9				0.109	0.538	U
76	26.81	360.9				0.107	25.0	U
77	27.24	360.9				0.0637	0.311	U
78	27.31	395.3				0.0470	0.267	U
79	27.51	360.9				0.0501	0.0501	U
80	27.68	360.9				0.0151	0.0475	U
82	27.90	360.9	395	0.153	0.423	0.108	0.493	J
83	28.08	360.9				0.0450	0.0457	U
84	28.29	360.9				0.00310	0.00473	U
85	28.62	395.3	15			0.0677	0.201	U
87	28.94	395.3				0.0156	0.0731	U
88	29.08	395.3	79			0.102	0.658	U
89	29.20	360.9	33			0.0199	0.0366	U
90	29.39	395.3				0.0679	0.311	U
91	29.64	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.0225	0.0859	U
93	30.37	394.3				0.102	0.585	U
94	30.64	394.3				0.0936	0.311	U
95	30.94	382.2				0.0871	0.144	U
96	31.20	429.8				0.00942	0.0121	U
98	31.38	395.3				0.0133	0.0139	U
99	31.75	429.8				0.0863	0.0863	U
100	32.00	395.3				0.127	0.127	U
101	32.29	429.8				0.217	0.217	U
102	32.46	395.3	71			0.150	1.11	U
103	32.72	395.3				0.0640	0.0768	U
104	33.03	395.3				0.0374	0.0438	U
105	33.38	429.8				0.0460	0.0786	U
106	34.53	395.3				0.0538	0.234	U
107	34.81	395.3				0.0213	0.0768	U
108	35.68	429.8				0.0324	0.0438	U
109	35.92	429.8				0.116	0.768	U
110	36.46	429.8				0.184	0.786	U
111	37.64	395.3				0.0231	0.0231	U
112	39.18	429.8				0.0368	0.101	U
113	39.72	464.2				0.0438	0.0903	U
114	40.65	464.2				0.0154	0.0340	U
115	42.06	429.8				0.0969	0.329	U
116	42.97	429.8				0.0838	0.0838	U
117	48.12	464.2				0.0384	0.124	U
118	54.13	498.6				0.0126	0.0126	U

Total Concentration = 196 ng/L

11.2 39.1

Total Nanomoles = 0.868

Average Molecular Weight = 225.4

Number of Calibrated Peaks Found = 60

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 143573.3

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 00:17:44  
 Lab Sample ID: AM11303  
 LRF ID: 09070314-04  
 Lab File ID: GC25-129-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	21.015	25.106
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.52	2:2	004 010	0.2907	2-2; 26	49.169	49.684
6	14.35	2:1	007 009	0.3085	24; 25	0.165	0.167
7	14.67	2:1	006	0.3154	2-3	0.266	0.269
8	14.86	2:1	005 008	0.3195	23; 2-4	0.851	0.859
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	7.691	6.733
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.20	2:0	012 013		34; 3-4	-	-
14	16.36	2:0 3:2	015 018	0.3518	4-4; 25-2	1.123	1.017
15	16.45	3:2	017	0.3537	24-2	2.064	1.807
16	16.74	3:2	024 027	0.3599	236; 26-3	2.864	2.507
17	17.03	3:2	016 032	0.3662	23-2; 26-4	1.810	1.585
19	17.46	3:1 4:4	023 034 054	0.3754	235; 35-2; 26-26	0.369	0.311
20	17.63	3:1	029		245	-	-
21	17.76	3:1	026	0.3819	25-3	0.775	0.679
22	17.84	3:1	025	0.3836	24-3	0.303	0.265
23	18.04	3:1	031	0.3879	25-4	1.067	0.934
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	0.518	0.453
25	18.48	3:1 4:3	020 021 033 053	0.3973	23-3; 234; 34-2; 25-26	0.990	0.860
26	18.68	3:1 4:3	022 051	0.4016	23-4; 24-26	0.412	0.359
27	18.91	4:3	045	0.4066	236-2	0.353	0.273
28	19.04	3:0	036		35-3	-	-
29	19.19	4:3	046	0.4126	23-26	0.104	0.080
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4188	25-25; 246-3; 26-35	1.568	1.210
32	19.64	4:2	043 049	0.4223	235-2; 24-25	0.680	0.525
33	19.76	4:2	038 047	0.4249	345; 24-24	0.518	0.400
34	19.80	4:2	048 075	0.4257	245-2; 246-4	0.128	0.098
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.21	5:4 4:2	104 044	0.4345	246-26; 23-25	0.384	0.296
38	20.34	3:0 4:2	037 042 059	0.4373	34-4; 23-24; 236-3	0.440	0.364

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	041 064 071 072	0.4449	234-2; 236-4; 26-34; 25-35	0.534	0.412
41	20.85	5:4	068 096	0.4483	24-35; 236-26	0.107	0.074
42	20.95	4:2	040	0.4504	23-23	0.087	0.067
43	21.20	4:1 5:3	057 103	0.4558	235-3; 246-25	0.081	0.061
44	21.38	4:1 5:3	058 067 100	0.4597	23-35; 245-3; 246-24	0.025	0.019
45	21.53	4:1	063	0.4629	235-4	0.086	0.067
46	21.70	4:1 5:3	074 094 061	0.4666	245-4; 235-26; 2345	0.116	0.090
47	21.84	4:1	070	0.4696	25-34	0.139	0.107
48	22.02	4:1 5:3	066 076 098 080 093 095 102 088	0.4734	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.667	0.513
49	22.25	4:1 5:3	055 091 121	0.4784	234-3; 236-24; 246-35	0.134	0.093
50	22.55	4:1	056 060	0.4848	23-34; 234-4	0.336	0.260
51	22.80	5:3 6:4	084 092 155	0.4902	236-23; 235-25; 246-246	0.539	0.372
52	22.91	5:3	089	0.4926	234-26	0.115	0.080
53	23.05	5:2	090 101	0.4956	235-24; 245-25	0.206	0.142
54	23.25	5:2	079 099 113	0.4999	34-35; 245-24; 236-35	0.074	0.051
55	23.53	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.61	5:2	078 083 112 108	0.5076	345-3; 235-23; 2356-3; 2346-3	0.074	0.051
57	23.84	5:2 6:4	097 152 086	0.5126	245-23; 2356-26; 2345-2	0.093	0.064
58	24.00	5:2	081 087 117 125 115 145	0.5160	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.107	0.074
59	24.16	5:2	116 085 111	0.5195	23456; 234-24; 235-35	0.036	0.025
60	24.31	6:4	120 136		245-35; 236-236	-	-
61	24.41	5:2	077 110 148	0.5248	34-34; 236-34; 235-246	0.267	0.184
62	24.67	6:3	154	0.5304	245-246	0.110	0.069
63	24.79	5:2	082		234-23	-	-
64	25.08	6:3	151	0.5392	2356-25	0.063	0.039
65	25.21	5:1 6:3	124 135	0.5420	345-25; 235-236	0.034	0.022
66	25.28	6:3	144	0.5435	2346-25	0.033	0.020
67	25.35	5:1 6:3	107 109 147	0.5450	234-35; 235-34; 2356-24	0.044	0.030
68	25.44	5:1	123		345-24	-	-
69	25.54	5:1 6:3	106 118 139 149	0.5491	2345-3; 245-34; 2346-24; 236-245	0.115	0.077
70	25.64	6:3	140		234-246	-	-
71	25.93	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.55	5:1 6:3	105 132 161	0.5708	234-34; 234-236; 2346-35	0.074	0.048
75	26.70	6:2	153		245-245	-	-
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	141		2345-25	-	-
78	27.31	7:4	179		2356-236	-	-
79	27.51	6:2	137		2345-24	-	-
80	27.68	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.90	6:2	138 163 164	0.5999	234-245; 2356-34; 236-345	0.078	0.049
83	28.08	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	126 129		345-34; 2345-23	-	-
85	28.62	7:3	166 178		23456-4; 2356-235	-	-
87	28.94	7:3	175 159		2346-235; 2345-35	-	-
88	29.08	7:3	182 187		2345-246; 2356-245	-	-
89	29.20	6:2	128 162		234-234; 235-345	-	-
90	29.39	7:3	183		2346-245	-	-
91	29.64	6:1	167		245-345	-	-
92	29.99	7:3	185		23456-25	-	-
93	30.37	7:3	174 181		2345-236; 23456-24	-	-
94	30.64	7:3	177		2356-234	-	-
95	30.94	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.20	8:4	157 202		234-345; 2356-2356	-	-
98	31.38	7:3	173		23456-23	-	-
99	31.75	8:4	201		2346-2356	-	-
100	32.00	7:2	172 204		2345-235; 23456-246	-	-
101	32.29	8:4	192 197		23456-35; 2346-2346	-	-
102	32.46	7:2	180		2345-245	-	-
103	32.72	7:2	193		2356-345	-	-
104	33.03	7:2	191		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 196 ng/L

Total Nanomoles = 0.868

Average Molecular Weight = 225.4

Number of Calibrated Peaks Found = 60

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

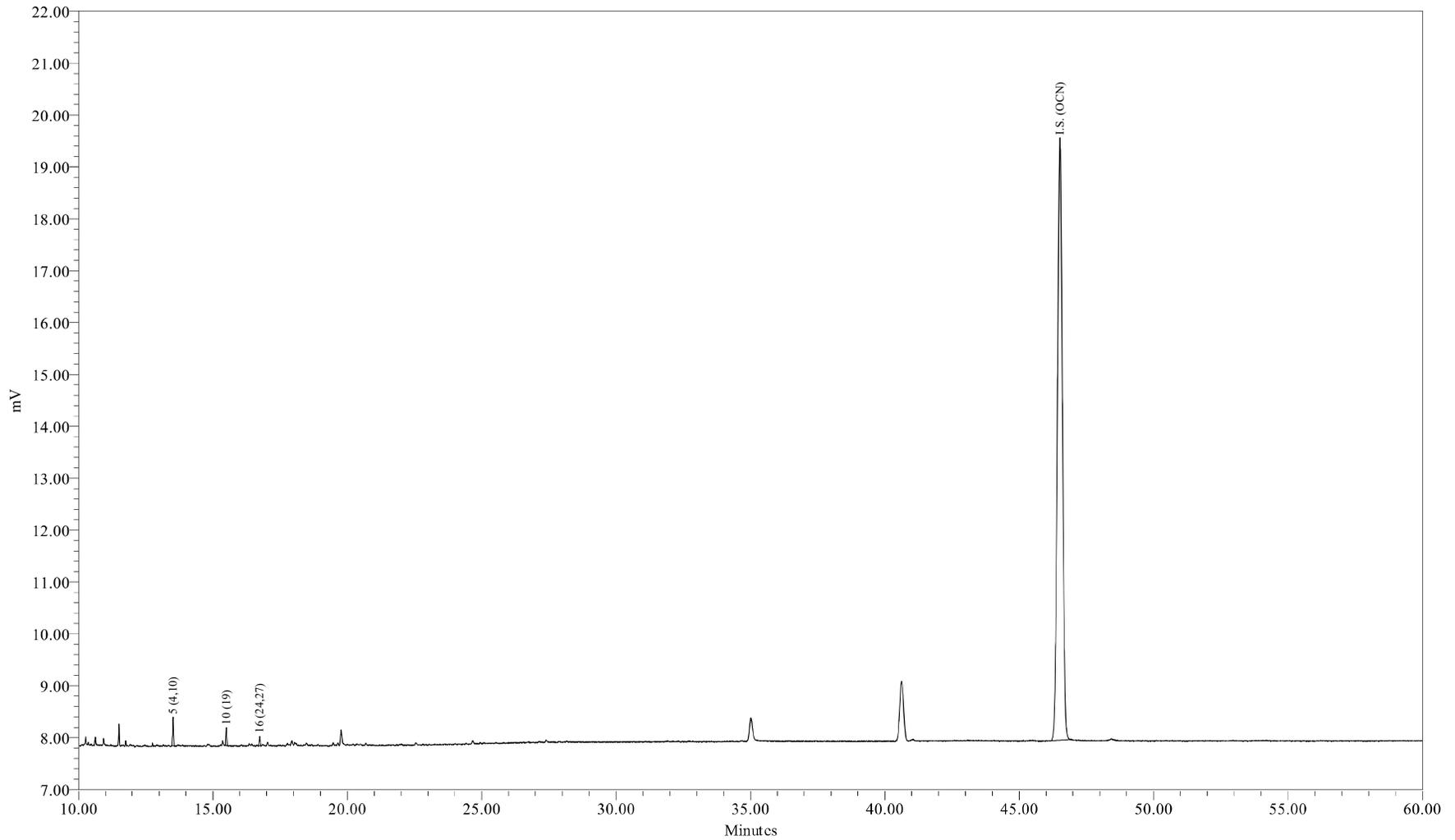
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



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Sample Name: AM11303DL1  
Sample ID: WFF-TIDA-090727-BT001  
Date Acquired: 7/29/2009 1:23:10 AM EDT

Sample Amount (L) : 1.0600  
Dilution: 50  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-129-13

Sample Name: AM11303DL1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 01:23:10  
 Lab Sample ID: AM11303DL1  
 LRF ID: 09070314-04DL1  
 Lab File ID: GC25-129-13

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 117 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	82.33	84.32
Tri	17.67	15.68
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.11

Meta + Para Cl / biphenyl Residue = 0.04

Total Cl / biphenyl Residue = 2.16

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 01:23:10  
 Lab Sample ID: AM11303DL1  
 LRF ID: 09070314-04DL1  
 Lab File ID: GC25-129-13

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.75	188.7				5.29	21.9	U
3	12.78	188.7				66.3	10000	U
4	12.89	188.7				3.55	12.8	U
5	13.52	223.1	1479	96.2	431	1.34	6.21	B
6	14.35	223.1				0.721	2.19	U
7	14.67	223.1				1.58	3.47	U
8	14.86	223.1				5.42	25.6	U
9	15.42	223.1				2.94	250	U
10	15.50	257.5	804	15.1	58.5	0.604	1.02	
11	15.97	257.5				1.98	250	U
12	16.03	223.1				3.06	250	U
13	16.23	223.1				0.559	0.975	U
14	16.36	249.0				1.28	6.76	U
15	16.44	257.5				1.43	6.76	U
16	16.74	257.5	488	5.61	21.8	0.374	0.475	
17	17.02	257.5				1.66	7.13	U
19	17.46	267.9				1.28	250	U
20	17.63	257.5				0.108	0.194	U
21	17.76	257.5				0.606	1.32	U
22	17.84	257.5				0.426	0.585	U
23	18.04	257.5				4.87	7.53	U
24	18.09	257.5				2.11	9.64	U
25	18.44	259.5				1.05	7.26	U
26	18.67	258.7				1.20	5.30	U
27	18.91	292.0				0.367	1.63	U
28	19.04	257.5				3.75	250	U
29	19.18	292.0				1.27	1.27	U
30	19.31	257.5				1.20	250	U
31	19.48	292.0				2.04	8.72	U
32	19.65	292.0				0.978	4.20	U
33	19.76	292.0				0.656	1.83	U
34	19.82	292.0				0.579	1.83	U
35	19.96	292.0				2.05	250	U
36	20.04	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.22	292.0				1.60	7.86	U
38	20.35	272.4				1.15	4.75	U
39	20.69	292.0				1.21	7.49	U
41	20.86	326.4				1.15	250	U
42	20.96	292.0				0.968	1.72	U
43	21.21	298.9				1.52	250	U
44	21.38	298.9				0.225	0.402	U
45	21.53	292.0				0.299	0.384	U
46	21.70	292.0				0.821	3.47	U
47	21.84	292.0				1.64	6.21	U
48	21.95	293.5				2.43	13.2	U
49	22.26	324.7				0.376	0.932	U
50	22.56	292.0				3.59	6.40	U
51	22.80	326.4				0.888	3.29	U
52	22.91	326.4				0.384	0.384	U
53	23.06	326.4				0.691	3.29	U
54	23.25	326.4				1.01	1.35	U
55	23.53	326.4				0.0644	0.102	U
56	23.63	326.4				0.647	0.647	U
57	23.84	326.4				0.435	1.02	U
58	24.01	326.4				0.841	2.12	U
59	24.17	326.4				0.484	1.28	U
60	24.29	360.9				0.772	1.37	U
61	24.42	326.4				0.668	3.89	U
62	24.69	360.9				1.13	250	U
63	24.79	326.4				0.201	0.804	U
64	25.08	360.9				0.518	3.11	U
65	25.22	350.5				0.149	0.530	U
66	25.28	360.9				0.541	1.10	U
67	25.34	336.8				0.348	0.475	U
68	25.43	326.4				1.25	250	U
69	25.53	337.5				0.938	7.31	U
70	25.64	360.9				0.829	250	U
71	25.93	347.8				0.348	0.369	U
72	26.14	336.8				0.0638	0.106	U
73	26.42	360.9				0.320	0.713	U
74	26.55	347.8				0.721	2.48	U
75	26.70	360.9				1.09	5.38	U
76	26.81	360.9				1.07	250	U
77	27.24	360.9				0.637	3.11	U
78	27.31	395.3				0.470	2.67	U
79	27.51	360.9				0.501	0.501	U
80	27.68	360.9				0.151	0.475	U
82	27.89	360.9				1.08	4.93	U
83	28.08	360.9				0.450	0.457	U
84	28.29	360.9				0.0310	0.0473	U
85	28.63	395.3				0.677	2.01	U
87	28.94	395.3				0.156	0.731	U
88	29.08	395.3				1.02	6.58	U
89	29.20	360.9				0.199	0.366	U
90	29.39	395.3				0.679	3.11	U
91	29.64	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.225	0.859	U
93	30.37	394.3				1.02	5.85	U
94	30.64	394.3				0.936	3.11	U
95	30.94	382.2				0.871	1.44	U
96	31.20	429.8				0.0942	0.121	U
98	31.38	395.3				0.133	0.139	U
99	31.75	429.8				0.863	0.863	U
100	32.00	395.3				1.27	1.27	U
101	32.29	429.8				2.17	2.17	U
102	32.48	395.3				1.50	11.1	U
103	32.72	395.3				0.640	0.768	U
104	33.03	395.3				0.374	0.438	U
105	33.38	429.8				0.460	0.786	U
106	34.53	395.3				0.538	2.34	U
107	34.81	395.3				0.213	0.768	U
108	35.68	429.8				0.324	0.438	U
109	35.92	429.8				1.16	7.68	U
110	36.46	429.8				1.84	7.86	U
111	37.64	395.3				0.231	0.231	U
112	39.18	429.8				0.368	1.01	U
113	39.72	464.2				0.438	0.903	U
114	40.65	464.2				0.154	0.340	U
115	42.06	429.8				0.969	3.29	U
116	42.97	429.8				0.838	0.838	U
117	48.12	464.2				0.384	1.24	U
118	54.13	498.6				0.126	0.126	U

Total Concentration = 117 ng/L

91.0 322 J

Total Nanomoles = 0.512

Average Molecular Weight = 228.5

Number of Calibrated Peaks Found = 3

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 146872.3

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 01:23:10  
 Lab Sample ID: AM11303DL1  
 LRF ID: 09070314-04DL1  
 Lab File ID: GC25-129-13

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.75	1:1	001		2	-	-
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.52	2:2	004 010	0.2907	2-2; 26	82.328	84.318
6	14.35	2:1	007 009		24; 25	-	-
7	14.67	2:1	006		2-3	-	-
8	14.86	2:1	005 008		23; 2-4	-	-
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	12.878	11.427
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013		34; 3-4	-	-
14	16.36	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.44	3:2	017		24-2	-	-
16	16.74	3:2	024 027	0.3599	236; 26-3	4.795	4.255
17	17.02	3:2	016 032		23-2; 26-4	-	-
19	17.46	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.63	3:1	029		245	-	-
21	17.76	3:1	026		25-3	-	-
22	17.84	3:1	025		24-3	-	-
23	18.04	3:1	031		25-4	-	-
24	18.09	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.44	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.67	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.91	4:3	045		236-2	-	-
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046		23-26	-	-
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.65	4:2	043 049		235-2; 24-25	-	-
33	19.76	4:2	038 047		345; 24-24	-	-
34	19.82	4:2	048 075		245-2; 246-4	-	-
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.22	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.35	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	<b>041 064 071 072</b>		234-2; 236-4; 26-34; 25-35	-	-
41	20.86	5:4	<b>068 096</b>		24-35; 236-26	-	-
42	20.96	4:2	<b>040</b>		23-23	-	-
43	21.21	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.38	4:1 5:3	<b>058 067 100</b>		23-35; 245-3; 246-24	-	-
45	21.53	4:1	<b>063</b>		235-4	-	-
46	21.70	4:1 5:3	<b>074 094 061</b>		245-4; 235-26; 2345	-	-
47	21.84	4:1	<b>070</b>		25-34	-	-
48	21.95	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.26	4:1 5:3	<b>055 091 121</b>		234-3; 236-24; 246-35	-	-
50	22.56	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.80	5:3 6:4	<b>084 092 155</b>		236-23; 235-25; 246-246	-	-
52	22.91	5:3	<b>089</b>		234-26	-	-
53	23.06	5:2	<b>090 101</b>		235-24; 245-25	-	-
54	23.25	5:2	<b>079 099 113</b>		34-35; 245-24; 236-35	-	-
55	23.53	5:2 6:4	<b>119 150</b>		246-34; 236-246	-	-
56	23.63	5:2	<b>078 083 112 108</b>		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.84	5:2 6:4	<b>097 152 086</b>		245-23; 2356-26; 2345-2	-	-
58	24.01	5:2	<b>081 087 117 125 115 145</b>		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.17	5:2	<b>116 085 111</b>		23456; 234-24; 235-35	-	-
60	24.29	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.42	5:2	<b>077 110 148</b>		34-34; 236-34; 235-246	-	-
62	24.69	6:3	<b>154</b>		245-246	-	-
63	24.79	5:2	<b>082</b>		234-23	-	-
64	25.08	6:3	<b>151</b>		2356-25	-	-
65	25.22	5:1 6:3	<b>124 135</b>		345-25; 235-236	-	-
66	25.28	6:3	<b>144</b>		2346-25	-	-
67	25.34	5:1 6:3	<b>107 109 147</b>		234-35; 235-34; 2356-24	-	-
68	25.43	5:1	<b>123</b>		345-24	-	-
69	25.53	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.64	6:3	<b>140</b>		234-246	-	-
71	25.93	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.55	5:1 6:3	<b>105 132 161</b>		234-34; 234-236; 2346-35	-	-
75	26.70	6:2	<b>153</b>		245-245	-	-
76	26.81	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	<b>141</b>		2345-25	-	-
78	27.31	7:4	<b>179</b>		2356-236	-	-
79	27.51	6:2	<b>137</b>		2345-24	-	-
80	27.68	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.89	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.08	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.63	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.94	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.08	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.20	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.39	7:3	<b>183</b>		2346-245	-	-
91	29.64	6:1	<b>167</b>		245-345	-	-
92	29.99	7:3	<b>185</b>		23456-25	-	-
93	30.37	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.64	7:3	<b>177</b>		2356-234	-	-
95	30.94	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.20	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.38	7:3	<b>173</b>		23456-23	-	-
99	31.75	8:4	<b>201</b>		2346-2356	-	-
100	32.00	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.29	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.48	7:2	<b>180</b>		2345-245	-	-
103	32.72	7:2	<b>193</b>		2356-345	-	-
104	33.03	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 117 ng/L

Total Nanomoles = 0.512

Average Molecular Weight = 228.5

Number of Calibrated Peaks Found = 3

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 1060 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

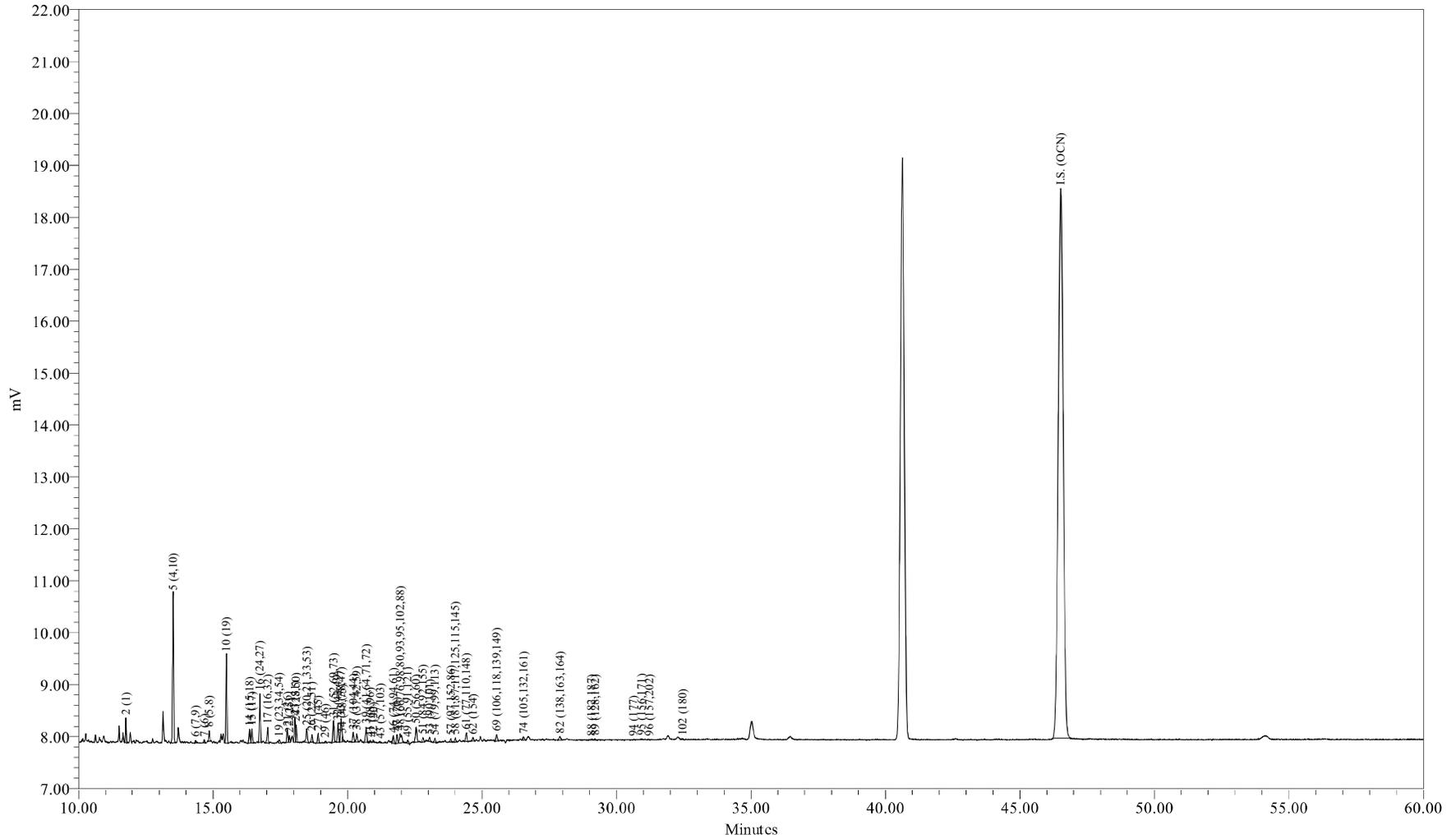
SDG No: 09070314  
LRF ID: 09070314-05  
Client ID: WFF-WAFA-090727-BT001  
Lab Sample ID: AM11304  
Lab File ID: GC25-129-14  
Date Received: 07/27/2009  
Date Extracted: 07/27/2009  
Date/Time Analyzed: 07/29/2009 02:28  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 135012

Percent Recovery (50 - 150 %): 83.3

SAMPLE TOTAL PCB CONCENTRATION: 131 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM11304  
Sample ID: WFF-WAFA-090727-BT001  
Date Acquired: 7/29/2009 2:28:39 AM EDT

Sample Amount (L) : 1.0600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-129-14

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 02:28:39  
 Lab Sample ID: AM11304  
 LRF ID: 09070314-05  
 Lab File ID: GC25-129-14

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 131 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	17.07	20.57
Di	54.67	55.67
Tri	18.68	16.49
Tetra	7.36	5.75
Penta	1.82	1.27
Hexa	0.39	0.25
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	22.2959	88.4	88.7
A1242	23+24/31+28	2.4931	9.88	9.91
A1254SED	61/100	0.4335	1.72	
A1254BIO	69+75+82/149+153+138	0.3574		1.42
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.80

Meta + Para Cl / biphenyl Residue = 0.33

Total Cl / biphenyl Residue = 2.12

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 02:28:39  
 Lab Sample ID: AM11304  
 LRF ID: 09070314-05  
 Lab File ID: GC25-129-14

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.76	188.7	873	22.3	118	0.529	2.19	
3	12.78	188.7				6.63	1000	U
4	12.89	188.7				0.355	1.28	U
5	13.52	223.1	1094	69.8	313	1.34	6.21	B
6	14.35	223.1	94	0.114	0.512	0.0721	0.219	J
7	14.68	223.1	125	0.354	1.59	0.158	0.347	
8	14.86	223.1	432	0.704	3.16	0.542	2.56	J
9	15.42	223.1				0.294	25.0	U
10	15.50	257.5	500	9.14	35.5	0.604	1.02	
11	15.97	257.5				0.198	25.0	U
12	16.03	223.1				0.306	25.0	U
13	16.23	223.1				0.0559	0.0975	U
14	16.36	249.0	762	1.63	6.56	0.128	0.676	
15	16.45	257.5	717	2.73	10.6	0.143	0.676	B
16	16.74	257.5	2447	3.06	11.9	0.0374	0.0475	
17	17.03	257.5	867	1.75	6.80	0.166	0.713	
19	17.46	267.9	226	0.382	1.43	0.128	25.0	J
20	17.63	257.5				0.0108	0.0194	U
21	17.76	257.5	729	1.18	4.59	0.0606	0.132	B
22	17.84	257.5	358	0.426	1.65	0.0426	0.0585	B
23	18.04	257.5	1360	1.69	6.57	0.487	0.753	
24	18.09	257.5	830	0.800	3.11	0.211	0.964	J
25	18.48	259.5	885	1.26	4.87	0.105	0.726	
26	18.68	258.7	387	0.609	2.36	0.120	0.530	
27	18.91	292.0	567	0.828	2.84	0.0367	0.163	B
28	19.04	257.5				0.375	25.0	U
29	19.18	292.0	95	0.165	0.565	0.127	0.127	
30	19.31	257.5				0.120	25.0	U
31	19.48	292.0	1227	2.25	7.72	0.204	0.872	
32	19.64	292.0	1068	0.972	3.33	0.0978	0.420	B
33	19.76	292.0	1409	0.930	3.18	0.0656	0.183	B
34	19.81	292.0	192	0.153	0.525	0.0579	0.183	JB
35	19.96	292.0				0.205	25.0	U
36	20.04	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.21	292.0	555	0.615	2.11	0.160	0.786	J
38	20.34	272.4	494	0.611	2.24	0.115	0.475	
39	20.69	292.0	956	0.784	2.69	0.121	0.749	
41	20.85	326.4	79	0.127	0.390	0.115	25.0	J
42	20.95	292.0	94	0.113	0.387	0.0968	0.172	J
43	21.21	298.9	24			0.152	25.0	U
44	21.38	298.9				0.0225	0.0402	U
45	21.53	292.0				0.0299	0.0384	U
46	21.71	292.0	476	0.261	0.895	0.0821	0.347	J
47	21.84	292.0	539	0.319	1.09	0.164	0.621	J
48	21.95	293.5	1078	1.09	3.72	0.243	1.32	J
49	22.24	324.7	214	0.237	0.731	0.0376	0.0932	
50	22.55	292.0	996	0.692	2.37	0.359	0.640	
51	22.81	326.4	307	0.661	2.03	0.0888	0.329	
52	22.91	326.4				0.0384	0.0384	U
53	23.05	326.4	226	0.201	0.617	0.0691	0.329	J
54	23.25	326.4	259	0.172	0.527	0.101	0.135	
55	23.53	326.4				0.00644	0.0102	U
56	23.63	326.4				0.0647	0.0647	U
57	23.84	326.4	191	0.132	0.404	0.0435	0.102	B
58	24.01	326.4	245	0.170	0.521	0.0841	0.212	J
59	24.17	326.4				0.0484	0.128	U
60	24.29	360.9				0.0772	0.137	U
61	24.42	326.4	516	0.433	1.33	0.0668	0.389	
62	24.67	360.9	190	0.179	0.497	0.113	25.0	J
63	24.79	326.4				0.0201	0.0804	U
64	25.08	360.9				0.0518	0.311	U
65	25.22	350.5				0.0149	0.0530	U
66	25.28	360.9				0.0541	0.110	U
67	25.34	336.8				0.0348	0.0475	U
68	25.43	326.4				0.125	25.0	U
69	25.54	337.5	475	0.231	0.684	0.0938	0.731	J
70	25.64	360.9				0.0829	25.0	U
71	25.93	347.8				0.0348	0.0369	U
72	26.14	336.8				0.00638	0.0106	U
73	26.42	360.9				0.0320	0.0713	U
74	26.54	347.8	244	0.137	0.393	0.0721	0.248	J
75	26.70	360.9				0.109	0.538	U
76	26.81	360.9				0.107	25.0	U
77	27.24	360.9				0.0637	0.311	U
78	27.31	395.3				0.0470	0.267	U
79	27.51	360.9				0.0501	0.0501	U
80	27.68	360.9				0.0151	0.0475	U
82	27.90	360.9	335	0.127	0.351	0.108	0.493	J
83	28.08	360.9				0.0450	0.0457	U
84	28.29	360.9				0.00310	0.00473	U
85	28.63	395.3				0.0677	0.201	U
87	28.94	395.3				0.0156	0.0731	U
88	29.08	395.3	133			0.102	0.658	U
89	29.21	360.9	87	0.0420	0.116	0.0199	0.0366	
90	29.39	395.3				0.0679	0.311	U
91	29.64	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.0225	0.0859	U
93	30.37	394.3				0.102	0.585	U
94	30.63	394.3	44			0.0936	0.311	U
95	30.93	382.2	37			0.0871	0.144	U
96	31.23	429.8	28			0.00942	0.0121	U
98	31.38	395.3				0.0133	0.0139	U
99	31.75	429.8				0.0863	0.0863	U
100	32.00	395.3				0.127	0.127	U
101	32.29	429.8				0.217	0.217	U
102	32.47	395.3	98			0.150	1.11	U
103	32.72	395.3				0.0640	0.0768	U
104	33.03	395.3				0.0374	0.0438	U
105	33.38	429.8				0.0460	0.0786	U
106	34.53	395.3				0.0538	0.234	U
107	34.81	395.3				0.0213	0.0768	U
108	35.68	429.8				0.0324	0.0438	U
109	35.92	429.8				0.116	0.768	U
110	36.46	429.8				0.184	0.786	U
111	37.64	395.3				0.0231	0.0231	U
112	39.18	429.8				0.0368	0.101	U
113	39.72	464.2				0.0438	0.0903	U
114	40.65	464.2				0.0154	0.0340	U
115	42.06	429.8				0.0969	0.329	U
116	42.97	429.8				0.0838	0.0838	U
117	48.12	464.2				0.0384	0.124	U
118	54.13	498.6				0.0126	0.0126	U

Total Concentration = 131 ng/L

10.8 38.7

Total Nanomoles = 0.574

Average Molecular Weight = 227.3

Number of Calibrated Peaks Found = 50

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 135012.4

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 02:28:39  
 Lab Sample ID: AM11304  
 LRF ID: 09070314-05  
 Lab File ID: GC25-129-14

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	17.074	20.567
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.52	2:2	004 010	0.2907	2-2; 26	53.465	54.475
6	14.35	2:1	007 009	0.3085	24; 25	0.087	0.089
7	14.68	2:1	006	0.3156	2-3	0.271	0.277
8	14.86	2:1	005 008	0.3195	23; 2-4	0.539	0.549
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	6.998	6.178
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013		34; 3-4	-	-
14	16.36	2:0 3:2	015 018	0.3518	4-4; 25-2	1.252	1.143
15	16.45	3:2	017	0.3537	24-2	2.088	1.843
16	16.74	3:2	024 027	0.3599	236; 26-3	2.342	2.067
17	17.03	3:2	016 032	0.3662	23-2; 26-4	1.340	1.183
19	17.46	3:1 4:4	023 034 054	0.3754	235; 35-2; 26-26	0.293	0.249
20	17.63	3:1	029		245	-	-
21	17.76	3:1	026	0.3819	25-3	0.904	0.798
22	17.84	3:1	025	0.3836	24-3	0.326	0.288
23	18.04	3:1	031	0.3879	25-4	1.296	1.144
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	0.613	0.541
25	18.48	3:1 4:3	020 021 033 053	0.3973	23-3; 234; 34-2; 25-26	0.967	0.847
26	18.68	3:1 4:3	022 051	0.4016	23-4; 24-26	0.467	0.410
27	18.91	4:3	045	0.4066	236-2	0.634	0.494
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046	0.4124	23-26	0.126	0.098
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4188	25-25; 246-3; 26-35	1.726	1.343
32	19.64	4:2	043 049	0.4223	235-2; 24-25	0.744	0.580
33	19.76	4:2	038 047	0.4249	345; 24-24	0.712	0.554
34	19.81	4:2	048 075	0.4259	245-2; 246-4	0.117	0.091
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.21	5:4 4:2	104 044	0.4345	246-26; 23-25	0.471	0.367
38	20.34	3:0 4:2	037 042 059	0.4373	34-4; 23-24; 236-3	0.468	0.390

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
39	20.69	4:2	041 064 071 072	0.4449	234-2; 236-4; 26-34; 25-35	0.600	0.467
41	20.85	5:4	068 096	0.4483	24-35; 236-26	0.098	0.068
42	20.95	4:2	040	0.4504	23-23	0.087	0.067
43	21.21	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.38	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.53	4:1	063		235-4	-	-
46	21.71	4:1 5:3	074 094 061	0.4668	245-4; 235-26; 2345	0.200	0.156
47	21.84	4:1	070	0.4696	25-34	0.244	0.190
48	21.95	4:1 5:3	066 076 098 080 093 095 102 088	0.4719	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.836	0.648
49	22.24	4:1 5:3	055 091 121	0.4782	234-3; 236-24; 246-35	0.182	0.127
50	22.55	4:1	056 060	0.4848	23-34; 234-4	0.530	0.412
51	22.81	5:3 6:4	084 092 155	0.4904	236-23; 235-25; 246-246	0.506	0.353
52	22.91	5:3	089		234-26	-	-
53	23.05	5:2	090 101	0.4956	235-24; 245-25	0.154	0.107
54	23.25	5:2	079 099 113	0.4999	34-35; 245-24; 236-35	0.132	0.092
55	23.53	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.63	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.84	5:2 6:4	097 152 086	0.5126	245-23; 2356-26; 2345-2	0.101	0.070
58	24.01	5:2	081 087 117 125 115 145	0.5162	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.130	0.091
59	24.17	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.29	6:4	120 136		245-35; 236-236	-	-
61	24.42	5:2	077 110 148	0.5250	34-34; 236-34; 235-246	0.332	0.231
62	24.67	6:3	154	0.5304	245-246	0.137	0.086
63	24.79	5:2	082		234-23	-	-
64	25.08	6:3	151		2356-25	-	-
65	25.22	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.28	6:3	144		2346-25	-	-
67	25.34	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.43	5:1	123		345-24	-	-
69	25.54	5:1 6:3	106 118 139 149	0.5491	2345-3; 245-34; 2346-24; 236-245	0.177	0.119
70	25.64	6:3	140		234-246	-	-
71	25.93	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.54	5:1 6:3	105 132 161	0.5706	234-34; 234-236; 2346-35	0.105	0.068
75	26.70	6:2	153		245-245	-	-
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	141		2345-25	-	-
78	27.31	7:4	179		2356-236	-	-
79	27.51	6:2	137		2345-24	-	-
80	27.68	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.90	6:2	138 163 164	0.5999	234-245; 2356-34; 236-345	0.097	0.061
83	28.08	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	126 129		345-34; 2345-23	-	-
85	28.63	7:3	166 178		23456-4; 2356-235	-	-
87	28.94	7:3	175 159		2346-235; 2345-35	-	-
88	29.08	7:3	182 187		2345-246; 2356-245	-	-
89	29.21	6:2	128 162	0.6280	234-234; 235-345	0.032	0.020
90	29.39	7:3	183		2346-245	-	-
91	29.64	6:1	167		245-345	-	-
92	29.99	7:3	185		23456-25	-	-
93	30.37	7:3	174 181		2345-236; 23456-24	-	-
94	30.63	7:3	177		2356-234	-	-
95	30.93	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.23	8:4	157 202		234-345; 2356-2356	-	-
98	31.38	7:3	173		23456-23	-	-
99	31.75	8:4	201		2346-2356	-	-
100	32.00	7:2	172 204		2345-235; 23456-246	-	-
101	32.29	8:4	192 197		23456-35; 2346-2346	-	-
102	32.47	7:2	180		2345-245	-	-
103	32.72	7:2	193		2356-345	-	-
104	33.03	7:2	191		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196</b> <b>203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 131 ng/L

Total Nanomoles = 0.574

Average Molecular Weight = 227.3

Number of Calibrated Peaks Found = 50

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

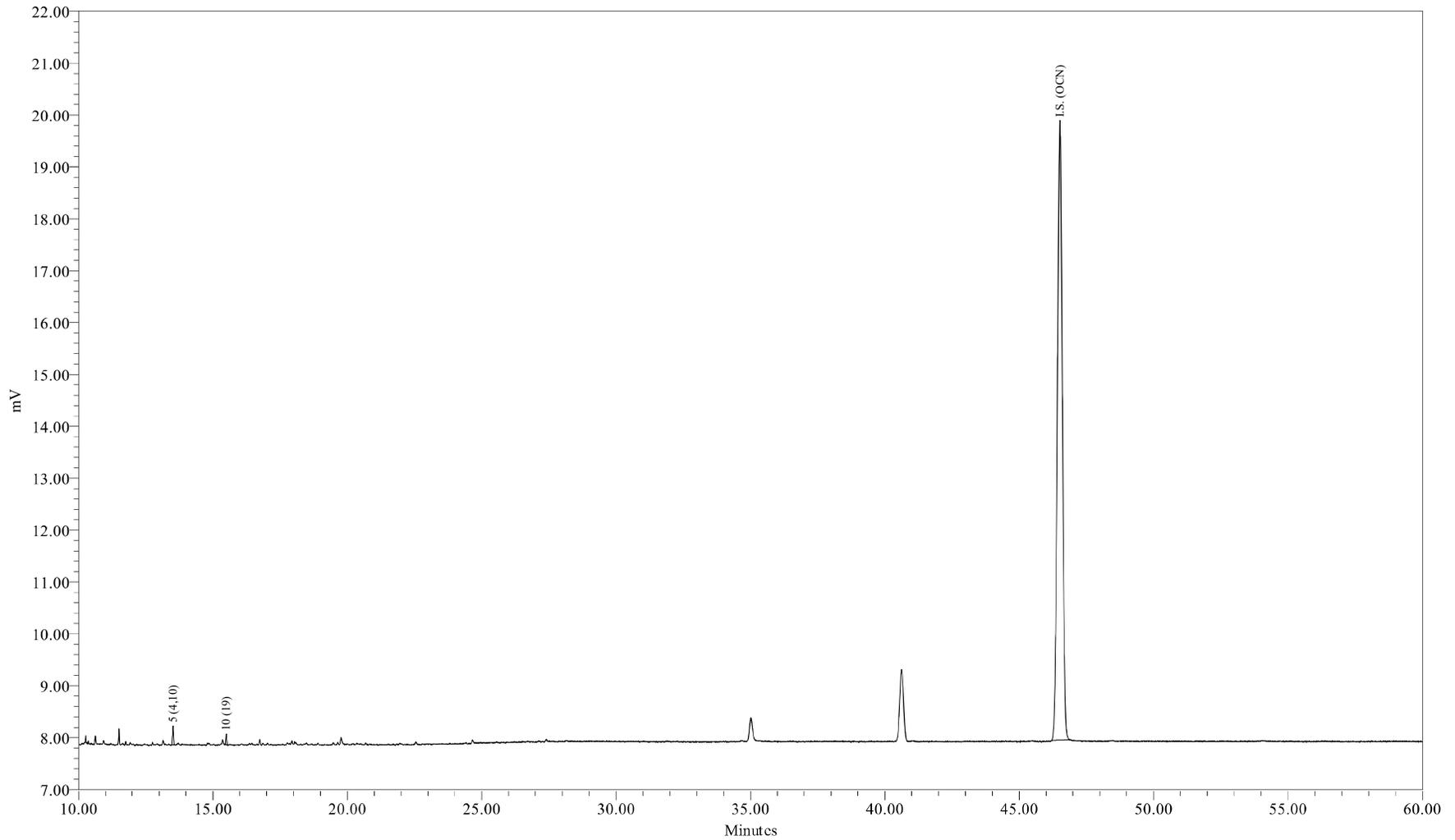
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM11304DL1  
Sample ID: WFF-WAFA-090727-BT001  
Date Acquired: 7/29/2009 3:34:06 AM EDT

Sample Amount (L) : 1.0600  
Dilution: 50  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-129-15

Sample Name: AM11304DL1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 03:34:06  
 Lab Sample ID: AM11304DL1  
 LRF ID: 09070314-05DL1  
 Lab File ID: GC25-129-15

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 79.0 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	88.43	89.81
Tri	11.57	10.19
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.10

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.10

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 03:34:06  
 Lab Sample ID: AM11304DL1  
 LRF ID: 09070314-05DL1  
 Lab File ID: GC25-129-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.75	188.7				5.29	21.9	U
3	12.78	188.7				66.3	10000	U
4	12.89	188.7				3.55	12.8	U
5	13.52	223.1	1094	69.8	313	1.34	6.21	B
6	14.35	223.1				0.721	2.19	U
7	14.67	223.1				1.58	3.47	U
8	14.86	223.1				5.42	25.6	U
9	15.42	223.1				2.94	250	U
10	15.50	257.5	500	9.14	35.5	0.604	1.02	
11	15.97	257.5				1.98	250	U
12	16.03	223.1				3.06	250	U
13	16.23	223.1				0.559	0.975	U
14	16.36	249.0				1.28	6.76	U
15	16.44	257.5				1.43	6.76	U
16	16.74	257.5				0.374	0.475	U
17	17.02	257.5				1.66	7.13	U
19	17.46	267.9				1.28	250	U
20	17.63	257.5				0.108	0.194	U
21	17.76	257.5				0.606	1.32	U
22	17.84	257.5				0.426	0.585	U
23	18.04	257.5				4.87	7.53	U
24	18.09	257.5				2.11	9.64	U
25	18.44	259.5				1.05	7.26	U
26	18.67	258.7				1.20	5.30	U
27	18.91	292.0				0.367	1.63	U
28	19.04	257.5				3.75	250	U
29	19.18	292.0				1.27	1.27	U
30	19.31	257.5				1.20	250	U
31	19.48	292.0				2.04	8.72	U
32	19.65	292.0				0.978	4.20	U
33	19.76	292.0				0.656	1.83	U
34	19.82	292.0				0.579	1.83	U
35	19.96	292.0				2.05	250	U
36	20.04	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.22	292.0				1.60	7.86	U
38	20.35	272.4				1.15	4.75	U
39	20.69	292.0				1.21	7.49	U
41	20.86	326.4				1.15	250	U
42	20.96	292.0				0.968	1.72	U
43	21.21	298.9				1.52	250	U
44	21.38	298.9				0.225	0.402	U
45	21.53	292.0				0.299	0.384	U
46	21.70	292.0				0.821	3.47	U
47	21.84	292.0				1.64	6.21	U
48	21.95	293.5				2.43	13.2	U
49	22.26	324.7				0.376	0.932	U
50	22.56	292.0				3.59	6.40	U
51	22.80	326.4				0.888	3.29	U
52	22.91	326.4				0.384	0.384	U
53	23.06	326.4				0.691	3.29	U
54	23.25	326.4				1.01	1.35	U
55	23.53	326.4				0.0644	0.102	U
56	23.63	326.4				0.647	0.647	U
57	23.84	326.4				0.435	1.02	U
58	24.01	326.4				0.841	2.12	U
59	24.17	326.4				0.484	1.28	U
60	24.29	360.9				0.772	1.37	U
61	24.42	326.4				0.668	3.89	U
62	24.69	360.9				1.13	250	U
63	24.79	326.4				0.201	0.804	U
64	25.08	360.9				0.518	3.11	U
65	25.22	350.5				0.149	0.530	U
66	25.28	360.9				0.541	1.10	U
67	25.34	336.8				0.348	0.475	U
68	25.43	326.4				1.25	250	U
69	25.53	337.5				0.938	7.31	U
70	25.64	360.9				0.829	250	U
71	25.93	347.8				0.348	0.369	U
72	26.14	336.8				0.0638	0.106	U
73	26.42	360.9				0.320	0.713	U
74	26.55	347.8				0.721	2.48	U
75	26.70	360.9				1.09	5.38	U
76	26.81	360.9				1.07	250	U
77	27.24	360.9				0.637	3.11	U
78	27.31	395.3				0.470	2.67	U
79	27.51	360.9				0.501	0.501	U
80	27.68	360.9				0.151	0.475	U
82	27.89	360.9				1.08	4.93	U
83	28.08	360.9				0.450	0.457	U
84	28.29	360.9				0.0310	0.0473	U
85	28.63	395.3				0.677	2.01	U
87	28.94	395.3				0.156	0.731	U
88	29.08	395.3				1.02	6.58	U
89	29.20	360.9				0.199	0.366	U
90	29.39	395.3				0.679	3.11	U
91	29.64	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.225	0.859	U
93	30.37	394.3				1.02	5.85	U
94	30.64	394.3				0.936	3.11	U
95	30.94	382.2				0.871	1.44	U
96	31.20	429.8				0.0942	0.121	U
98	31.38	395.3				0.133	0.139	U
99	31.75	429.8				0.863	0.863	U
100	32.00	395.3				1.27	1.27	U
101	32.29	429.8				2.17	2.17	U
102	32.48	395.3				1.50	11.1	U
103	32.72	395.3				0.640	0.768	U
104	33.03	395.3				0.374	0.438	U
105	33.38	429.8				0.460	0.786	U
106	34.53	395.3				0.538	2.34	U
107	34.81	395.3				0.213	0.768	U
108	35.68	429.8				0.324	0.438	U
109	35.92	429.8				1.16	7.68	U
110	36.46	429.8				1.84	7.86	U
111	37.64	395.3				0.231	0.231	U
112	39.18	429.8				0.368	1.01	U
113	39.72	464.2				0.438	0.903	U
114	40.65	464.2				0.154	0.340	U
115	42.06	429.8				0.969	3.29	U
116	42.97	429.8				0.838	0.838	U
117	48.12	464.2				0.384	1.24	U
118	54.13	498.6				0.126	0.126	U

Total Concentration = 79.0 ng/L

91.0 322

Total Nanomoles = 0.348

Average Molecular Weight = 226.6

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 46.52 minutes

Internal Standard Peak Area = 149955.1

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
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 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 03:34:06  
 Lab Sample ID: AM11304DL1  
 LRF ID: 09070314-05DL1  
 Lab File ID: GC25-129-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.75	1:1	001		2	-	-
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.52	2:2	004 010	0.2906	2-2; 26	88.426	89.815
6	14.35	2:1	007 009		24; 25	-	-
7	14.67	2:1	006		2-3	-	-
8	14.86	2:1	005 008		23; 2-4	-	-
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3332	26-2	11.574	10.185
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013		34; 3-4	-	-
14	16.36	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.44	3:2	017		24-2	-	-
16	16.74	3:2	024 027		236; 26-3	-	-
17	17.02	3:2	016 032		23-2; 26-4	-	-
19	17.46	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.63	3:1	029		245	-	-
21	17.76	3:1	026		25-3	-	-
22	17.84	3:1	025		24-3	-	-
23	18.04	3:1	031		25-4	-	-
24	18.09	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.44	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.67	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.91	4:3	045		236-2	-	-
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046		23-26	-	-
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.65	4:2	043 049		235-2; 24-25	-	-
33	19.76	4:2	038 047		345; 24-24	-	-
34	19.82	4:2	048 075		245-2; 246-4	-	-
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.22	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.35	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	<b>041 064 071 072</b>		234-2; 236-4; 26-34; 25-35	-	-
41	20.86	5:4	<b>068 096</b>		24-35; 236-26	-	-
42	20.96	4:2	<b>040</b>		23-23	-	-
43	21.21	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.38	4:1 5:3	<b>058 067 100</b>		23-35; 245-3; 246-24	-	-
45	21.53	4:1	<b>063</b>		235-4	-	-
46	21.70	4:1 5:3	<b>074 094 061</b>		245-4; 235-26; 2345	-	-
47	21.84	4:1	<b>070</b>		25-34	-	-
48	21.95	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.26	4:1 5:3	<b>055 091 121</b>		234-3; 236-24; 246-35	-	-
50	22.56	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.80	5:3 6:4	<b>084 092 155</b>		236-23; 235-25; 246-246	-	-
52	22.91	5:3	<b>089</b>		234-26	-	-
53	23.06	5:2	<b>090 101</b>		235-24; 245-25	-	-
54	23.25	5:2	<b>079 099 113</b>		34-35; 245-24; 236-35	-	-
55	23.53	5:2 6:4	<b>119 150</b>		246-34; 236-246	-	-
56	23.63	5:2	<b>078 083 112 108</b>		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.84	5:2 6:4	<b>097 152 086</b>		245-23; 2356-26; 2345-2	-	-
58	24.01	5:2	<b>081 087 117 125 115 145</b>		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.17	5:2	<b>116 085 111</b>		23456; 234-24; 235-35	-	-
60	24.29	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.42	5:2	<b>077 110 148</b>		34-34; 236-34; 235-246	-	-
62	24.69	6:3	<b>154</b>		245-246	-	-
63	24.79	5:2	<b>082</b>		234-23	-	-
64	25.08	6:3	<b>151</b>		2356-25	-	-
65	25.22	5:1 6:3	<b>124 135</b>		345-25; 235-236	-	-
66	25.28	6:3	<b>144</b>		2346-25	-	-
67	25.34	5:1 6:3	<b>107 109 147</b>		234-35; 235-34; 2356-24	-	-
68	25.43	5:1	<b>123</b>		345-24	-	-
69	25.53	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.64	6:3	<b>140</b>		234-246	-	-
71	25.93	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.55	5:1 6:3	<b>105 132 161</b>		234-34; 234-236; 2346-35	-	-
75	26.70	6:2	<b>153</b>		245-245	-	-
76	26.81	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	<b>141</b>		2345-25	-	-
78	27.31	7:4	<b>179</b>		2356-236	-	-
79	27.51	6:2	<b>137</b>		2345-24	-	-
80	27.68	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.89	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.08	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.63	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.94	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.08	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.20	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.39	7:3	<b>183</b>		2346-245	-	-
91	29.64	6:1	<b>167</b>		245-345	-	-
92	29.99	7:3	<b>185</b>		23456-25	-	-
93	30.37	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.64	7:3	<b>177</b>		2356-234	-	-
95	30.94	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.20	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.38	7:3	<b>173</b>		23456-23	-	-
99	31.75	8:4	<b>201</b>		2346-2356	-	-
100	32.00	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.29	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.48	7:2	<b>180</b>		2345-245	-	-
103	32.72	7:2	<b>193</b>		2356-345	-	-
104	33.03	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196</b> <b>203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 79.0 ng/L

Total Nanomoles = 0.348

Average Molecular Weight = 226.6

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 1050 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

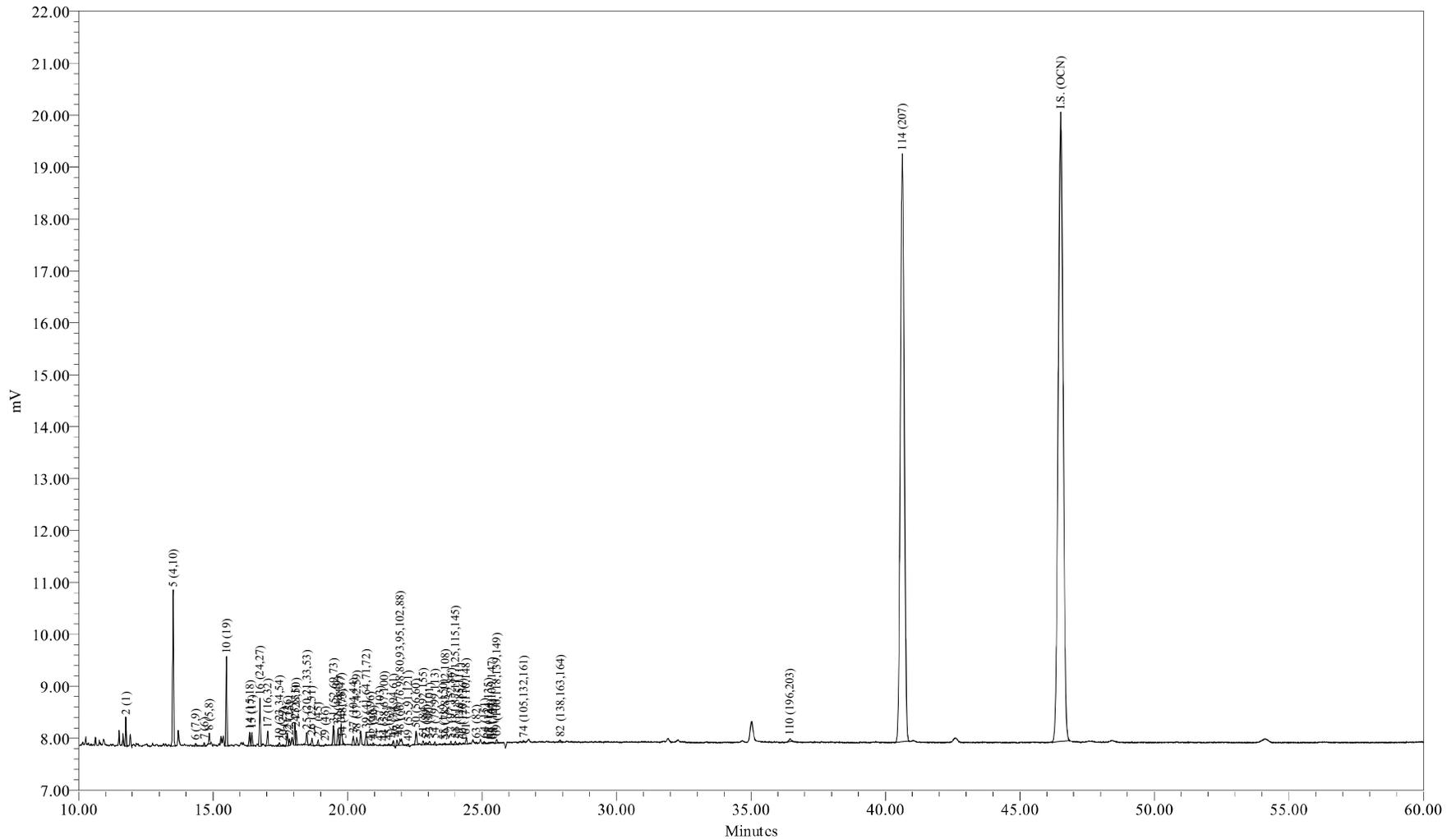
SDG No: 09070314  
LRF ID: 09070314-06  
Client ID: WFF-WAFO-090727-BT001  
Lab Sample ID: AM11305  
Lab File ID: GC25-129-16  
Date Received: 07/27/2009  
Date Extracted: 07/27/2009  
Date/Time Analyzed: 07/29/2009 04:39  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 151397

Percent Recovery (50 - 150 %): 93.4

SAMPLE TOTAL PCB CONCENTRATION: 119 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM11305  
Sample ID: WFF-WAFO-090727-BT001  
Date Acquired: 7/29/2009 4:39:33 AM EDT

Sample Amount (L) : 1.0500  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-129-16

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 04:39:33  
 Lab Sample ID: AM11305  
 LRF ID: 09070314-06  
 Lab File ID: GC25-129-16

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 119 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	19.54	23.29
Di	54.70	55.10
Tri	18.25	15.93
Tetra	5.84	4.52
Penta	1.60	1.11
Hexa	0.07	0.04
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	23.2848	91.4	92.3
A1242	23+24/31+28	1.9284	7.57	7.64
A1254SED	61/100	0.2552	1.00	
A1254BIO	69+75+82/149+153+138	0.0230		0.0912
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.78

Meta + Para Cl / biphenyl Residue = 0.28

Total Cl / biphenyl Residue = 2.05

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 04:39:33  
 Lab Sample ID: AM11305  
 LRF ID: 09070314-06  
 Lab File ID: GC25-129-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.76	188.7	1012	23.3	123	0.529	2.19	
3	12.78	188.7				6.63	1000	U
4	12.89	188.7				0.355	1.28	U
5	13.52	223.1	1009	63.6	285	1.34	6.21	B
6	14.35	223.1	155	0.184	0.825	0.0721	0.219	J
7	14.67	223.1	158	0.409	1.83	0.158	0.347	
8	14.86	223.1	436	0.620	2.78	0.542	2.56	J
9	15.42	223.1				0.294	25.0	U
10	15.50	257.5	474	8.58	33.3	0.604	1.02	
11	15.97	257.5				0.198	25.0	U
12	16.03	223.1				0.306	25.0	U
13	16.23	223.1				0.0559	0.0975	U
14	16.36	249.0	720	1.37	5.52	0.128	0.676	
15	16.45	257.5	691	2.35	9.14	0.143	0.676	B
16	16.74	257.5	2508	2.82	11.0	0.0374	0.0475	
17	17.03	257.5	799	1.43	5.55	0.166	0.713	
19	17.46	267.9	307	0.469	1.75	0.128	25.0	J
20	17.60	257.5	108	0.106	0.413	0.0108	0.0194	
21	17.76	257.5	721	1.05	4.09	0.0606	0.132	B
22	17.84	257.5	390	0.417	1.62	0.0426	0.0585	B
23	18.04	257.5	1234	1.37	5.32	0.487	0.753	
24	18.09	257.5	699	0.558	2.17	0.211	0.964	J
25	18.48	259.5	731	0.914	3.52	0.105	0.726	
26	18.67	258.7	394	0.558	2.16	0.120	0.530	
27	18.90	292.0	306	0.394	1.35	0.0367	0.163	B
28	19.04	257.5				0.375	25.0	U
29	19.17	292.0	107	0.168	0.576	0.127	0.127	
30	19.31	257.5				0.120	25.0	U
31	19.48	292.0	1070	1.74	5.95	0.204	0.872	
32	19.64	292.0	917	0.734	2.51	0.0978	0.420	B
33	19.76	292.0	1201	0.702	2.40	0.0656	0.183	B
34	19.82	292.0	186	0.129	0.442	0.0579	0.183	JB
35	19.96	292.0				0.205	25.0	U
36	20.04	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.22	292.0	546	0.534	1.83	0.160	0.786	J
38	20.34	272.4	478	0.512	1.88	0.115	0.475	
39	20.69	292.0	813	0.565	1.93	0.121	0.749	J
41	20.85	326.4	87	0.125	0.384	0.115	25.0	J
42	20.95	292.0	166	0.179	0.614	0.0968	0.172	
43	21.20	298.9	61			0.152	25.0	U
44	21.36	298.9	53	0.0409	0.137	0.0225	0.0402	
45	21.53	292.0	117	0.0885	0.303	0.0299	0.0384	
46	21.70	292.0	339	0.149	0.510	0.0821	0.347	J
47	21.84	292.0	315			0.164	0.621	U
48	21.95	293.5	782	0.624	2.13	0.243	1.32	J
49	22.27	324.7	140	0.139	0.427	0.0376	0.0932	
50	22.55	292.0	865	0.514	1.76	0.359	0.640	J
51	22.81	326.4	264	0.506	1.55	0.0888	0.329	
52	22.92	326.4	186	0.188	0.577	0.0384	0.0384	B
53	23.04	326.4	210	0.163	0.500	0.0691	0.329	J
54	23.25	326.4	191	0.115	0.354	0.101	0.135	J
55	23.56	326.4	32	0.0120	0.0369	0.00644	0.0102	
56	23.63	326.4	63	0.0668	0.205	0.0647	0.0647	
57	23.84	326.4	180	0.110	0.336	0.0435	0.102	B
58	24.01	326.4	205	0.116	0.355	0.0841	0.212	J
59	24.16	326.4	101			0.0484	0.128	U
60	24.29	360.9	63			0.0772	0.137	U
61	24.42	326.4	377	0.255	0.782	0.0668	0.389	J
62	24.69	360.9				0.113	25.0	U
63	24.78	326.4	62	0.0442	0.135	0.0201	0.0804	J
64	25.08	360.9	134			0.0518	0.311	U
65	25.23	350.5	40	0.0196	0.0558	0.0149	0.0530	JB
66	25.31	360.9	40	0.0557	0.154	0.0541	0.110	JB
67	25.36	336.8	63	0.0493	0.147	0.0348	0.0475	
68	25.42	326.4	49			0.125	25.0	U
69	25.55	337.5	255			0.0938	0.731	U
70	25.64	360.9				0.0829	25.0	U
71	25.93	347.8				0.0348	0.0369	U
72	26.14	336.8				0.00638	0.0106	U
73	26.42	360.9				0.0320	0.0713	U
74	26.54	347.8	118			0.0721	0.248	U
75	26.70	360.9				0.109	0.538	U
76	26.81	360.9				0.107	25.0	U
77	27.24	360.9				0.0637	0.311	U
78	27.31	395.3				0.0470	0.267	U
79	27.51	360.9				0.0501	0.0501	U
80	27.68	360.9				0.0151	0.0475	U
82	27.91	360.9	177			0.108	0.493	U
83	28.08	360.9				0.0450	0.0457	U
84	28.29	360.9				0.00310	0.00473	U
85	28.63	395.3				0.0677	0.201	U
87	28.94	395.3				0.0156	0.0731	U
88	29.08	395.3				0.102	0.658	U
89	29.20	360.9				0.0199	0.0366	U
90	29.39	395.3				0.0679	0.311	U
91	29.64	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.0225	0.0859	U
93	30.37	394.3				0.102	0.585	U
94	30.64	394.3				0.0936	0.311	U
95	30.94	382.2				0.0871	0.144	U
96	31.20	429.8				0.00942	0.0121	U
98	31.38	395.3				0.0133	0.0139	U
99	31.75	429.8				0.0863	0.0863	U
100	32.00	395.3				0.127	0.127	U
101	32.29	429.8				0.217	0.217	U
102	32.48	395.3				0.150	1.11	U
103	32.72	395.3				0.0640	0.0768	U
104	33.03	395.3				0.0374	0.0438	U
105	33.38	429.8				0.0460	0.0786	U
106	34.53	395.3				0.0538	0.234	U
107	34.81	395.3				0.0213	0.0768	U
108	35.68	429.8				0.0324	0.0438	U
109	35.92	429.8				0.116	0.768	U
110	36.46	429.8				0.184	0.786	U
111	37.64	395.3				0.0231	0.0231	U
112	39.18	429.8				0.0368	0.101	U
113	39.72	464.2				0.0438	0.0903	U
114	40.65	464.2				0.0154	0.0340	U
115	42.06	429.8				0.0969	0.329	U
116	42.97	429.8				0.0838	0.0838	U
117	48.12	464.2				0.0384	0.124	U
118	54.13	498.6				0.0126	0.0126	U

Total Concentration = 119 ng/L

10.8 38.7

Total Nanomoles = 0.530

Average Molecular Weight = 224.9

Number of Calibrated Peaks Found = 57

Internal Standard Retention Time = 46.52 minutes

Internal Standard Peak Area = 151397.2

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 04:39:33  
 Lab Sample ID: AM11305  
 LRF ID: 09070314-06  
 Lab File ID: GC25-129-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	19.543	23.291
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.52	2:2	004 010	0.2906	2-2; 26	53.393	53.821
6	14.35	2:1	007 009	0.3085	24; 25	0.154	0.156
7	14.67	2:1	006	0.3153	2-3	0.343	0.346
8	14.86	2:1	005 008	0.3194	23; 2-4	0.520	0.524
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3332	26-2	7.197	6.286
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013		34; 3-4	-	-
14	16.36	2:0 3:2	015 018	0.3517	4-4; 25-2	1.153	1.042
15	16.45	3:2	017	0.3536	24-2	1.975	1.725
16	16.74	3:2	024 027	0.3598	236; 26-3	2.369	2.069
17	17.03	3:2	016 032	0.3661	23-2; 26-4	1.199	1.047
19	17.46	3:1 4:4	023 034 054	0.3753	235; 35-2; 26-26	0.393	0.330
20	17.60	3:1	029	0.3783	245	0.089	0.078
21	17.76	3:1	026	0.3818	25-3	0.884	0.772
22	17.84	3:1	025	0.3835	24-3	0.350	0.306
23	18.04	3:1	031	0.3878	25-4	1.150	1.004
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	0.469	0.409
25	18.48	3:1 4:3	020 021 033 053	0.3972	23-3; 234; 34-2; 25-26	0.767	0.665
26	18.67	3:1 4:3	022 051	0.4013	23-4; 24-26	0.469	0.407
27	18.90	4:3	045	0.4063	236-2	0.331	0.255
28	19.04	3:0	036		35-3	-	-
29	19.17	4:3	046	0.4121	23-26	0.141	0.109
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4187	25-25; 246-3; 26-35	1.458	1.123
32	19.64	4:2	043 049	0.4222	235-2; 24-25	0.616	0.474
33	19.76	4:2	038 047	0.4248	345; 24-24	0.589	0.454
34	19.82	4:2	048 075	0.4261	245-2; 246-4	0.108	0.083
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.22	5:4 4:2	104 044	0.4347	246-26; 23-25	0.448	0.345
38	20.34	3:0 4:2	037 042 059	0.4372	34-4; 23-24; 236-3	0.429	0.354

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
39	20.69	4:2	<b>041 064 071 072</b>	0.4448	234-2; 236-4; 26-34; 25-35	0.474	0.365
41	20.85	5:4	<b>068 096</b>	0.4482	24-35; 236-26	0.105	0.072
42	20.95	4:2	<b>040</b>	0.4503	23-23	0.150	0.116
43	21.20	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.36	4:1 5:3	<b>058 067 100</b>	0.4592	23-35; 245-3; 246-24	0.034	0.026
45	21.53	4:1	<b>063</b>	0.4628	235-4	0.074	0.057
46	21.70	4:1 5:3	<b>074 094 061</b>	0.4665	245-4; 235-26; 2345	0.125	0.096
47	21.84	4:1	<b>070</b>		25-34	-	-
48	21.95	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4718	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.524	0.401
49	22.27	4:1 5:3	<b>055 091 121</b>	0.4787	234-3; 236-24; 246-35	0.116	0.081
50	22.55	4:1	<b>056 060</b>	0.4847	23-34; 234-4	0.431	0.332
51	22.81	5:3 6:4	<b>084 092 155</b>	0.4903	236-23; 235-25; 246-246	0.425	0.293
52	22.92	5:3	<b>089</b>	0.4927	234-26	0.158	0.109
53	23.04	5:2	<b>090 101</b>	0.4953	235-24; 245-25	0.137	0.094
54	23.25	5:2	<b>079 099 113</b>	0.4998	34-35; 245-24; 236-35	0.097	0.067
55	23.56	5:2 6:4	<b>119 150</b>	0.5064	246-34; 236-246	0.010	0.007
56	23.63	5:2	<b>078 083 112 108</b>	0.5080	345-3; 235-23; 2356-3; 2346-3	0.056	0.039
57	23.84	5:2 6:4	<b>097 152 086</b>	0.5125	245-23; 2356-26; 2345-2	0.092	0.063
58	24.01	5:2	<b>081 087 117 125 115 145</b>	0.5161	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.097	0.067
59	24.16	5:2	<b>116 085 111</b>		23456; 234-24; 235-35	-	-
60	24.29	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.42	5:2	<b>077 110 148</b>	0.5249	34-34; 236-34; 235-246	0.214	0.148
62	24.69	6:3	<b>154</b>		245-246	-	-
63	24.78	5:2	<b>082</b>	0.5327	234-23	0.037	0.026
64	25.08	6:3	<b>151</b>		2356-25	-	-
65	25.23	5:1 6:3	<b>124 135</b>	0.5423	345-25; 235-236	0.016	0.011
66	25.31	6:3	<b>144</b>	0.5441	2346-25	0.047	0.029
67	25.36	5:1 6:3	<b>107 109 147</b>	0.5451	234-35; 235-34; 2356-24	0.041	0.028
68	25.42	5:1	<b>123</b>		345-24	-	-
69	25.55	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.64	6:3	<b>140</b>		234-246	-	-
71	25.93	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.54	5:1 6:3	<b>105 132 161</b>		234-34; 234-236; 2346-35	-	-
75	26.70	6:2	<b>153</b>		245-245	-	-
76	26.81	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	<b>141</b>		2345-25	-	-
78	27.31	7:4	<b>179</b>		2356-236	-	-
79	27.51	6:2	<b>137</b>		2345-24	-	-
80	27.68	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.91	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.08	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.63	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.94	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.08	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.20	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.39	7:3	<b>183</b>		2346-245	-	-
91	29.64	6:1	<b>167</b>		245-345	-	-
92	29.99	7:3	<b>185</b>		23456-25	-	-
93	30.37	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.64	7:3	<b>177</b>		2356-234	-	-
95	30.94	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.20	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.38	7:3	<b>173</b>		23456-23	-	-
99	31.75	8:4	<b>201</b>		2346-2356	-	-
100	32.00	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.29	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.48	7:2	<b>180</b>		2345-245	-	-
103	32.72	7:2	<b>193</b>		2356-345	-	-
104	33.03	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 119 ng/L

Total Nanomoles = 0.530

Average Molecular Weight = 224.9

Number of Calibrated Peaks Found = 57

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

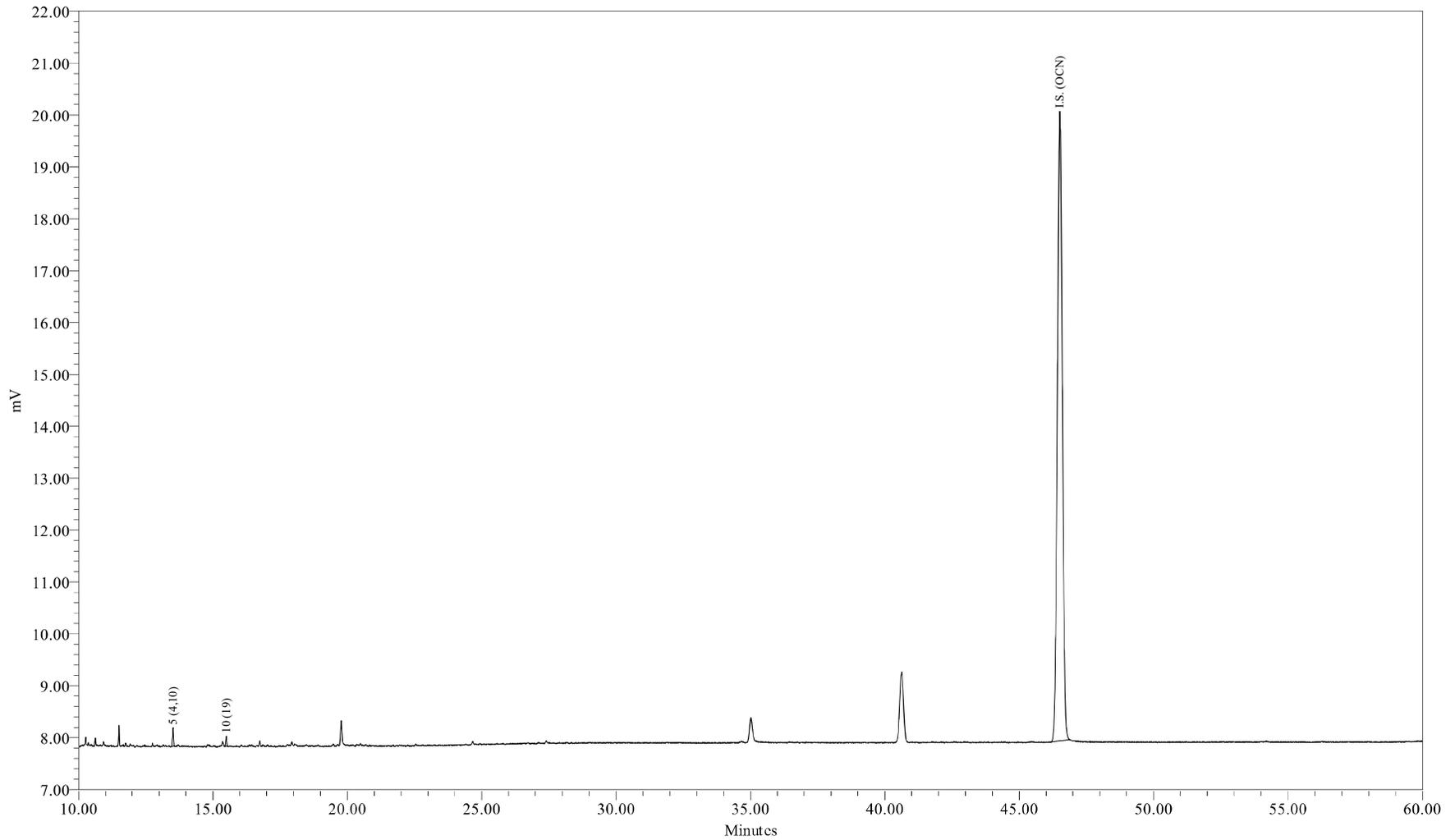
<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Sample Name: AM11305DL1  
Sample ID: WFF-WAFO-090727-BT001  
Date Acquired: 7/29/2009 6:50:40 AM EDT

Sample Amount (L) : 1.0500  
Dilution: 50  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-129-18

Sample Name: AM11305DL1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 06:50:40  
 Lab Sample ID: AM11305DL1  
 LRF ID: 09070314-06DL1  
 Lab File ID: GC25-129-18

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 72.2 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	88.12	89.54
Tri	11.88	10.46
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.10

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.10

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 06:50:40  
 Lab Sample ID: AM11305DL1  
 LRF ID: 09070314-06DL1  
 Lab File ID: GC25-129-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.75	188.7				5.29	21.9	U
3	12.78	188.7				66.3	10000	U
4	12.89	188.7				3.55	12.8	U
5	13.52	223.1	1009	63.6	285	1.34	6.21	B
6	14.35	223.1				0.721	2.19	U
7	14.67	223.1				1.58	3.47	U
8	14.86	223.1				5.42	25.6	U
9	15.42	223.1				2.94	250	U
10	15.50	257.5	474	8.58	33.3	0.604	1.02	
11	15.97	257.5				1.98	250	U
12	16.03	223.1				3.06	250	U
13	16.23	223.1				0.559	0.975	U
14	16.36	249.0				1.28	6.76	U
15	16.44	257.5				1.43	6.76	U
16	16.74	257.5				0.374	0.475	U
17	17.02	257.5				1.66	7.13	U
19	17.46	267.9				1.28	250	U
20	17.63	257.5				0.108	0.194	U
21	17.76	257.5				0.606	1.32	U
22	17.84	257.5				0.426	0.585	U
23	18.04	257.5				4.87	7.53	U
24	18.09	257.5				2.11	9.64	U
25	18.44	259.5				1.05	7.26	U
26	18.67	258.7				1.20	5.30	U
27	18.91	292.0				0.367	1.63	U
28	19.04	257.5				3.75	250	U
29	19.18	292.0				1.27	1.27	U
30	19.31	257.5				1.20	250	U
31	19.48	292.0				2.04	8.72	U
32	19.65	292.0				0.978	4.20	U
33	19.76	292.0				0.656	1.83	U
34	19.82	292.0				0.579	1.83	U
35	19.96	292.0				2.05	250	U
36	20.04	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.22	292.0				1.60	7.86	U
38	20.35	272.4				1.15	4.75	U
39	20.69	292.0				1.21	7.49	U
41	20.86	326.4				1.15	250	U
42	20.96	292.0				0.968	1.72	U
43	21.21	298.9				1.52	250	U
44	21.38	298.9				0.225	0.402	U
45	21.53	292.0				0.299	0.384	U
46	21.70	292.0				0.821	3.47	U
47	21.84	292.0				1.64	6.21	U
48	21.95	293.5				2.43	13.2	U
49	22.26	324.7				0.376	0.932	U
50	22.56	292.0				3.59	6.40	U
51	22.80	326.4				0.888	3.29	U
52	22.91	326.4				0.384	0.384	U
53	23.06	326.4				0.691	3.29	U
54	23.25	326.4				1.01	1.35	U
55	23.53	326.4				0.0644	0.102	U
56	23.63	326.4				0.647	0.647	U
57	23.84	326.4				0.435	1.02	U
58	24.01	326.4				0.841	2.12	U
59	24.17	326.4				0.484	1.28	U
60	24.29	360.9				0.772	1.37	U
61	24.42	326.4				0.668	3.89	U
62	24.69	360.9				1.13	250	U
63	24.79	326.4				0.201	0.804	U
64	25.08	360.9				0.518	3.11	U
65	25.22	350.5				0.149	0.530	U
66	25.28	360.9				0.541	1.10	U
67	25.34	336.8				0.348	0.475	U
68	25.43	326.4				1.25	250	U
69	25.53	337.5				0.938	7.31	U
70	25.64	360.9				0.829	250	U
71	25.93	347.8				0.348	0.369	U
72	26.14	336.8				0.0638	0.106	U
73	26.42	360.9				0.320	0.713	U
74	26.55	347.8				0.721	2.48	U
75	26.70	360.9				1.09	5.38	U
76	26.81	360.9				1.07	250	U
77	27.24	360.9				0.637	3.11	U
78	27.31	395.3				0.470	2.67	U
79	27.51	360.9				0.501	0.501	U
80	27.68	360.9				0.151	0.475	U
82	27.89	360.9				1.08	4.93	U
83	28.08	360.9				0.450	0.457	U
84	28.29	360.9				0.0310	0.0473	U
85	28.63	395.3				0.677	2.01	U
87	28.94	395.3				0.156	0.731	U
88	29.08	395.3				1.02	6.58	U
89	29.20	360.9				0.199	0.366	U
90	29.39	395.3				0.679	3.11	U
91	29.64	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.225	0.859	U
93	30.37	394.3				1.02	5.85	U
94	30.64	394.3				0.936	3.11	U
95	30.94	382.2				0.871	1.44	U
96	31.20	429.8				0.0942	0.121	U
98	31.38	395.3				0.133	0.139	U
99	31.75	429.8				0.863	0.863	U
100	32.00	395.3				1.27	1.27	U
101	32.29	429.8				2.17	2.17	U
102	32.48	395.3				1.50	11.1	U
103	32.72	395.3				0.640	0.768	U
104	33.03	395.3				0.374	0.438	U
105	33.38	429.8				0.460	0.786	U
106	34.53	395.3				0.538	2.34	U
107	34.81	395.3				0.213	0.768	U
108	35.68	429.8				0.324	0.438	U
109	35.92	429.8				1.16	7.68	U
110	36.46	429.8				1.84	7.86	U
111	37.64	395.3				0.231	0.231	U
112	39.18	429.8				0.368	1.01	U
113	39.72	464.2				0.438	0.903	U
114	40.65	464.2				0.154	0.340	U
115	42.06	429.8				0.969	3.29	U
116	42.97	429.8				0.838	0.838	U
117	48.12	464.2				0.384	1.24	U
118	54.13	498.6				0.126	0.126	U

Total Concentration = 72.2 ng/L

91.0 322

Total Nanomoles = 0.318

Average Molecular Weight = 226.7

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 153124.4

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090727-BT001  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 06:50:40  
 Lab Sample ID: AM11305DL1  
 LRF ID: 09070314-06DL1  
 Lab File ID: GC25-129-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.75	1:1	001		2	-	-
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.52	2:2	004 010	0.2907	2-2; 26	88.121	89.542
6	14.35	2:1	007 009		24; 25	-	-
7	14.67	2:1	006		2-3	-	-
8	14.86	2:1	005 008		23; 2-4	-	-
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	11.879	10.458
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013		34; 3-4	-	-
14	16.36	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.44	3:2	017		24-2	-	-
16	16.74	3:2	024 027		236; 26-3	-	-
17	17.02	3:2	016 032		23-2; 26-4	-	-
19	17.46	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.63	3:1	029		245	-	-
21	17.76	3:1	026		25-3	-	-
22	17.84	3:1	025		24-3	-	-
23	18.04	3:1	031		25-4	-	-
24	18.09	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.44	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.67	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.91	4:3	045		236-2	-	-
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046		23-26	-	-
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.65	4:2	043 049		235-2; 24-25	-	-
33	19.76	4:2	038 047		345; 24-24	-	-
34	19.82	4:2	048 075		245-2; 246-4	-	-
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.22	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.35	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	<b>041 064 071 072</b>		234-2; 236-4; 26-34; 25-35	-	-
41	20.86	5:4	<b>068 096</b>		24-35; 236-26	-	-
42	20.96	4:2	<b>040</b>		23-23	-	-
43	21.21	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.38	4:1 5:3	<b>058 067 100</b>		23-35; 245-3; 246-24	-	-
45	21.53	4:1	<b>063</b>		235-4	-	-
46	21.70	4:1 5:3	<b>074 094 061</b>		245-4; 235-26; 2345	-	-
47	21.84	4:1	<b>070</b>		25-34	-	-
48	21.95	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.26	4:1 5:3	<b>055 091 121</b>		234-3; 236-24; 246-35	-	-
50	22.56	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.80	5:3 6:4	<b>084 092 155</b>		236-23; 235-25; 246-246	-	-
52	22.91	5:3	<b>089</b>		234-26	-	-
53	23.06	5:2	<b>090 101</b>		235-24; 245-25	-	-
54	23.25	5:2	<b>079 099 113</b>		34-35; 245-24; 236-35	-	-
55	23.53	5:2 6:4	<b>119 150</b>		246-34; 236-246	-	-
56	23.63	5:2	<b>078 083 112 108</b>		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.84	5:2 6:4	<b>097 152 086</b>		245-23; 2356-26; 2345-2	-	-
58	24.01	5:2	<b>081 087 117 125 115 145</b>		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.17	5:2	<b>116 085 111</b>		23456; 234-24; 235-35	-	-
60	24.29	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.42	5:2	<b>077 110 148</b>		34-34; 236-34; 235-246	-	-
62	24.69	6:3	<b>154</b>		245-246	-	-
63	24.79	5:2	<b>082</b>		234-23	-	-
64	25.08	6:3	<b>151</b>		2356-25	-	-
65	25.22	5:1 6:3	<b>124 135</b>		345-25; 235-236	-	-
66	25.28	6:3	<b>144</b>		2346-25	-	-
67	25.34	5:1 6:3	<b>107 109 147</b>		234-35; 235-34; 2356-24	-	-
68	25.43	5:1	<b>123</b>		345-24	-	-
69	25.53	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.64	6:3	<b>140</b>		234-246	-	-
71	25.93	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.55	5:1 6:3	<b>105 132 161</b>		234-34; 234-236; 2346-35	-	-
75	26.70	6:2	<b>153</b>		245-245	-	-
76	26.81	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	<b>141</b>		2345-25	-	-
78	27.31	7:4	<b>179</b>		2356-236	-	-
79	27.51	6:2	<b>137</b>		2345-24	-	-
80	27.68	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.89	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.08	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.63	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.94	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.08	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.20	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.39	7:3	<b>183</b>		2346-245	-	-
91	29.64	6:1	<b>167</b>		245-345	-	-
92	29.99	7:3	<b>185</b>		23456-25	-	-
93	30.37	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.64	7:3	<b>177</b>		2356-234	-	-
95	30.94	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.20	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.38	7:3	<b>173</b>		23456-23	-	-
99	31.75	8:4	<b>201</b>		2346-2356	-	-
100	32.00	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.29	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.48	7:2	<b>180</b>		2345-245	-	-
103	32.72	7:2	<b>193</b>		2356-345	-	-
104	33.03	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 72.2 ng/L

Total Nanomoles = 0.318

Average Molecular Weight = 226.7

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

# Sample GC Injection Log



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Sample Set Name: GC25\_062509A,  
Project Name: GC25\_Mar\_2009  
Sample Set Start Date: 06/24/2009 18:37:02 EDT,  
Current Date: 06/26/2009  
Report Name: CSGB\_SSReport

### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090624B01	1.000	1.00	1	06/24/2009 18:53:45 EDT
2	HEXANE BLANK	Unknown	090624B02	1.000	1.00	1	06/24/2009 19:59:13 EDT
3	ICAL 6.25 ng/mL	Standard	ICAL0624A	1.000	1.00	1	06/24/2009 21:04:40 EDT
4	ICAL 12.5 ng/mL	Standard	ICAL0624B	1.000	1.00	1	06/24/2009 22:10:21 EDT
5	ICAL 125 ng/mL	Standard	ICAL0624C	1.000	1.00	1	06/24/2009 23:15:52 EDT
6	ICAL 314 ng/mL	Standard	ICAL0624D	1.000	1.00	1	06/25/2009 00:21:22 EDT
7	ICAL 627 ng/mL	Standard	ICAL0624E	1.000	1.00	1	06/25/2009 01:26:52 EDT
8	HEXANE BLANK	Unknown	090624B03	1.000	1.00	1	06/25/2009 02:32:21 EDT
9	SUP CONG STD 200/5 ng/mL	Standard	SC0624A	1.000	1.00	1	06/25/2009 03:37:51 EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0624A	1.000	1.00	1	06/25/2009 04:43:20 EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0624B	1.000	1.00	1	06/25/2009 05:48:49 EDT
12	Surr TCMX/DCBP 5/50 ppb	Standard	TD0625A	1.000	1.00	1	06/25/2009 22:07:20 EDT
13	HEXANE BLANK	Unknown	090625B06	1.000	1.00	1	06/25/2009 23:12:45 EDT
14	CCC Std 122 ng/mL	Unknown	CCCS0625B	1.000	1.00	1	06/26/2009 00:18:12 EDT



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Sample Set Name: GC25\_072709c  
Project Name: GC25\_Mar\_2009  
Sample Set Start Date: 07/27/2009 12:08:25  
Date Printed: 8/1/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090727B02	1.000	1.00	1	07/27/2009 12:08:25
2	CCC Std 122 ng/mL	Unknown	CCCS0727A	1.000	1.00	1	07/27/2009 13:14:01
3	METHOD BLANK	Unknown	AM11284B	1.000	5.00	5	07/27/2009 14:19:36
4	LAB CONTROL SPIKE	Unknown	AM11284L	1.000	5.00	5	07/27/2009 15:25:18
5	ZZZZZ	Unknown	ZZZZZ	1.040	5.00	5	07/27/2009 16:30:56
6	ZZZZZ	Unknown	ZZZZZ	1.040	50.00	5	07/27/2009 17:36:39
7	ZZZZZ	Unknown	ZZZZZ	1.050	5.00	5	07/27/2009 18:42:05
8	ZZZZZ	Unknown	ZZZZZ	1.050	50.00	5	07/27/2009 19:47:34
9	CCC Std 122 ng/mL	Unknown	CCCS0727B	1.000	1.00	1	07/27/2009 20:53:03
10	CCC Std 122 ng/mL	Unknown	CCCS0727C	1.000	1.00	1	07/28/2009 05:44:06
11	ZZZZZ	Unknown	ZZZZZ	1.040	5.00	5	07/28/2009 06:49:34
12	ZZZZZ	Unknown	ZZZZZ	1.040	50.00	5	07/28/2009 07:55:01
13	WFF-LOC5-090727-BT002	Unknown	AM11300	1.060	5.00	5	07/28/2009 09:00:30
14	WFF-LOC5-090727-BT002	Unknown	AM11300DL1	1.060	50.00	5	07/28/2009 10:05:59
15	CCC Std 122 ng/mL	Unknown	CCCS0728A	1.000	1.00	1	07/28/2009 11:11:30



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Sample Set Name: GC25\_072809b  
Project Name: GC25\_Mar\_2009  
Sample Set Start Date: 07/28/2009 12:16:58  
Date Printed: 8/1/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	METHOD BLANK	Unknown	AM11384B	1.000	5.00	5	07/28/2009 12:16:58
2	LAB CONTROL SPIKE	Unknown	AM11384L	1.000	5.00	5	07/28/2009 13:22:28
3	ZZZZZ	Unknown	ZZZZZ	0.740	5.00	5	07/28/2009 14:28:01
4	ZZZZZ	Unknown	ZZZZZ	0.740	50.00	5	07/28/2009 15:33:31
5	ZZZZZ	Unknown	ZZZZZ	1.050	5.00	5	07/28/2009 16:38:59
6	ZZZZZ	Unknown	ZZZZZ	1.050	50.00	5	07/28/2009 17:44:44
7	CCC Std 122 ng/mL	Unknown	CCCS0728B	1.000	1.00	1	07/28/2009 18:50:12
8	WFF-SCHU-090727-BT001	Unknown	AM11301	1.040	5.00	5	07/28/2009 19:55:43
9	WFF-THIS-090727-BT001	Unknown	AM11302	0.970	5.00	5	07/28/2009 22:06:46
10	WFF-THIS-090727-BT001	Unknown	AM11302DL1	0.970	50.00	5	07/28/2009 23:12:14
11	WFF-TIDA-090727-BT001	Unknown	AM11303	1.060	5.00	5	07/29/2009 00:17:44
12	WFF-TIDA-090727-BT001	Unknown	AM11303DL1	1.060	50.00	5	07/29/2009 01:23:10
13	WFF-WAFA-090727-BT001	Unknown	AM11304	1.060	5.00	5	07/29/2009 02:28:39
14	WFF-WAFA-090727-BT001	Unknown	AM11304DL1	1.060	50.00	5	07/29/2009 03:34:06
15	WFF-WAFO-090727-BT001	Unknown	AM11305	1.050	5.00	5	07/29/2009 04:39:33
16	CCC Std 122 ng/mL	Unknown	CCCS0728C	1.000	1.00	1	07/29/2009 05:45:14
17	WFF-WAFO-090727-BT001	Unknown	AM11305DL1	1.050	50.00	5	07/29/2009 06:50:40
18	CCC Std 122 ng/mL	Unknown	CCCS0728D	1.000	1.00	1	07/29/2009 07:56:06
19	WFF-SCHU-090727-BT001	Unknown	AM11301DL1RR1	1.040	50.00	5	07/29/2009 10:07:03
20	ZZZZZ	Unknown	ZZZZZ	1.050	5.00	5	07/29/2009 11:12:32



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Sample Set Name: GC25\_072909c  
Project Name: GC25\_Mar\_2009  
Sample Set Start Date: 07/29/2009 14:29:06  
Date Printed: 8/1/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	METHOD BLANK	Unknown	AM11568B	1.000	5.00	5	07/29/2009 14:29:06
2	LAB CONTROL SPIKE	Unknown	AM11568L	1.000	5.00	5	07/29/2009 15:34:34
3	ZZZZZ	Unknown	ZZZZZ	1.070	5.00	5	07/29/2009 16:40:02
4	ZZZZZ	Unknown	ZZZZZ	1.070	50.00	5	07/29/2009 17:55:01
5	CCC Std 122 ng/mL	Unknown	CCCS0729A	1.000	1.00	1	07/29/2009 19:00:28
6	ZZZZZ	Unknown	ZZZZZ	1.060	5.00	5	07/29/2009 20:05:56
7	ZZZZZ	Unknown	ZZZZZ	1.060	50.00	5	07/29/2009 21:11:25
8	CCC Std 122 ng/mL	Unknown	CCCS0729B	1.000	1.00	1	07/29/2009 22:16:53
9	METHOD BLANK	Unknown	AM11516B	1.000	10.00	10	07/29/2009 23:22:21
10	LAB CONTROL SPIKE	Unknown	AM11516L	1.000	10.00	10	07/30/2009 00:27:51
11	ZZZZZ	Unknown	ZZZZZ	0.920	2000.00	10	07/30/2009 01:33:18
12	ZZZZZ	Unknown	ZZZZZ	0.920	10000.00	10	07/30/2009 02:38:45
13	ZZZZZ	Unknown	ZZZZZ	0.930	2000.00	10	07/30/2009 03:44:13
14	ZZZZZ	Unknown	ZZZZZ	0.930	10000.00	10	07/30/2009 04:49:41
15	ZZZZZ	Unknown	ZZZZZ	0.930	1000.00	10	07/30/2009 05:55:24
16	ZZZZZ	Unknown	ZZZZZ	0.930	10000.00	10	07/30/2009 07:00:51
17	CCC Std 122 ng/mL	Unknown	CCCS0729C	1.000	1.00	1	07/30/2009 08:06:19





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Project Name: GC25\_Mar\_2009  
Sample Set Name: GC25\_072809b  
Date Printed: 8/1/2009

**Operating Conditions Gas Chromatography**

User Name: Amy Jo Arndt Injection Method: Splitless  
Sample Size: 1.0 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 23.5 psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector Type: ECD Detector Range: 4



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Project Name: GC25\_Mar\_2009  
Sample Set Name: GC25\_072909c  
Date Printed: 8/1/2009

**Operating Conditions Gas Chromatography**

User Name: Keith Friedman Injection Method: Splitless  
Sample Size: 1.0 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 23.5 psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector Type: ECD Detector Range: 4

# Standards Summary Tables



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Sample Set Name: GC25\_CC\_062409  
Project Name: GC25\_Mar\_2009  
Sample Set Start Date: 06/24/2009 18:37:02 EDT  
Current Date: 06/26/2009  
Report Name: CSGB\_SumRpt\_OCNArea

#### ICAL OCN Area Summary Report

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0624A	ICAL 6.25 ng/mL	06/24/2009 21:04:40 EDT	146797
2	ICAL0624B	ICAL 12.5 ng/mL	06/24/2009 22:10:21 EDT	166260
3	ICAL0624C	ICAL 125 ng/mL	06/24/2009 23:15:52 EDT	167942
4	ICAL0624D	ICAL 314 ng/mL	06/25/2009 00:21:22 EDT	163648
5	ICAL0624E	ICAL 627 ng/mL	06/25/2009 01:26:52 EDT	165875
Mean				162104



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System Name:	Instrument_25	Date Calibrated:	06/25/2009 21:39:46 EDT
Sample Set Name:	GC25_CC_062409	Method Report:	CSGB CCSum by RF
Sample Set Date:	06/24/2009 18:37:02 EDT	User Name:	Inga Hotaling (IngaH)
Processing Method:	CSGB_LL1X_062409		

**Calibration Component Summary Table  
 Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)
1	ICAL0624A	0.028803		0.014164	0.053659	0.440803	0.210868	0.127149			
2	ICAL0624B	0.024841		0.013347	0.051906	0.475679	0.226451	0.126939		0.312822	
3	ICAL0624C	0.025239		0.013245	0.055114	0.426697	0.205059	0.115771		0.331131	
4	ICAL0624D	0.024456		0.012210	0.055586	0.414939	0.199231	0.108524		0.313756	
5	ICAL0624E				0.054299					0.306397	
6	SC0624A		0.002915						0.158243		0.619094
Mean		0.026	0.003	0.013	0.054	0.440	0.210	0.120	0.158	0.316	0.619
Std. Dev.		0.002		0.001	0.001	0.026	0.012	0.009		0.011	
% RSD		7.76		6.05	2.66	5.99	5.56	7.61		3.35	

**Calibration Component Summary Table  
 Component Summary For RF**

	12 (11)	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)
1			0.375957	0.158633	0.514149	0.338606			0.397543	0.532224	0.515744
2		0.314956	0.389885	0.194903	0.481947	0.333977		0.563389	0.357312	0.547353	0.521185
3		0.341762	0.360388	0.164670	0.517541	0.293462		0.593900	0.410895	0.570515	0.515803
4		0.302310	0.345938	0.162229	0.514314	0.295088		0.575221	0.386723	0.515721	0.483071
5					0.503658						
6	0.058167						0.374891				
Mean	0.058	0.320	0.368	0.170	0.506	0.315	0.375	0.578	0.388	0.541	0.509
Std. Dev.		0.020	0.019	0.017	0.015	0.024		0.015	0.023	0.023	0.017
% RSD		6.30	5.17	9.83	2.88	7.72		2.66	5.87	4.30	3.43

**Calibration Component Summary Table  
 Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
1	0.598633	0.430082	0.380977	0.487546		0.355716		0.370163	0.752355	1.095958
2	0.611226	0.475892	0.420981	0.418636		0.341110		0.357519	0.712297	1.122153
3	0.569623	0.430813	0.405446	0.448464		0.392105		0.341743	0.677239	0.938191
4	0.518979	0.410539	0.396095	0.421325		0.375667		0.320060	0.642485	0.912798
5										
6					0.287185		0.280016			
Mean	0.575	0.437	0.401	0.444	0.287	0.366	0.280	0.347	0.696	1.017

**Calibration Component Summary Table  
Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
Std. Dev.	0.041	0.028	0.017	0.032		0.022		0.022	0.047	0.107
% RSD	7.13	6.34	4.18	7.21		6.11		6.22	6.77	10.52

**Calibration Component Summary Table  
Component Summary For RF**

	34 (48,75)	35 (62,65)	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)
1	0.735162			0.519117	0.528867	0.721112		0.505353		
2	0.733189			0.558289	0.504885	0.768445		0.546085		0.712114
3	0.668413			0.527188	0.419347	0.690296		0.538441		0.796859
4	0.629285			0.491641	0.416048	0.642756		0.522901		0.751786
5										
6		0.747414	0.269517				0.396448		0.555891	
Mean	0.692	0.747	0.270	0.524	0.467	0.706	0.396	0.528	0.556	0.754
Std. Dev.	0.052			0.027	0.058	0.053		0.018		0.042
% RSD	7.49			5.23	12.44	7.49		3.41		5.63

**Calibration Component Summary Table  
Component Summary For RF**

	45 (63)	46 (74,94,61)	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)
1	0.788303	1.077284	0.873864		0.565455	0.545443	0.905232	0.303882
2	0.732157	1.061840	0.887649		0.596525	0.611280	0.868456	0.293650
3	0.770313	1.009321	0.812500		0.536947	0.573237	0.816262	0.293681
4	0.728073	0.956398	0.754328		0.502875	0.561852	0.771103	0.279512
5								
6								
Mean	0.755	1.026	0.832		0.550	0.573	0.840	0.293
Std. Dev.	0.029	0.055	0.061		0.040	0.028	0.059	0.010
% RSD	3.89	5.35	7.36		7.26	4.88	7.00	3.42

**Calibration Component Summary Table  
Component Summary For RF**

	53 (90,101)	54 (79,99,113)	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)
1	0.647376	0.920579			0.996515		0.865259
2	0.688212	0.980568	1.560053	0.537686	0.822825		0.815662
3	0.655664	0.997496	1.452154	0.552849	0.860298		0.735002
4	0.627556	0.970033	1.557591	0.560016	0.813673		0.714789
5							
6							
Mean	0.655	0.967	1.523	0.550	0.873		0.783
Std. Dev.	0.025	0.033	0.062	0.011	0.085		0.070
% RSD	3.86	3.42	4.04	2.07	9.68		8.97

**Calibration Component Summary Table  
Component Summary For RF**

	60 (120,136)	61 (77,110,148)	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)
1	0.938192	0.767170		0.791600	0.830729	1.012837	0.397679		
2	0.753062	0.706196		0.780694	0.774305	1.282132	0.448945	0.709726	
3	0.716706	0.657254		0.868327	0.722687	1.239137	0.466956	0.750058	
4	0.681689	0.628982		0.782307	0.690903	1.138800	0.431088	0.688355	
5									
6			0.672267						0.729764
Mean	0.772	0.690	0.672	0.806	0.755	1.168	0.436	0.716	0.730
Std. Dev.	0.114	0.061		0.042	0.061	0.120	0.030	0.031	
% RSD	14.80	8.78		5.21	8.12	10.25	6.77	4.38	

**Calibration Component Summary Table  
Component Summary For RF**

	69 (106,118,139,149)	70 (140)	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)
1	0.906879		0.756308		1.096875	1.065423	1.117965
2	0.854644		0.712545	1.176697	0.928371	1.085985	1.081579
3	0.816194		0.776206	1.413659	0.934547	1.069926	0.990565
4	0.742047		0.854517	1.585034	0.830158	1.035001	0.906410
5							
6		0.740594					
Mean	0.830	0.741	0.775	1.392	0.947	1.064	1.024
Std. Dev.	0.069		0.059	0.205	0.110	0.021	0.095
% RSD	8.36		7.66	14.73	11.66	2.00	9.28

**Calibration Component Summary Table  
Component Summary For RF**

	76 (127,168,184)	77 (141)	78 (179)	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)
1		0.639747	0.705855		1.662998	1.028924	0.899497		0.435522
2		0.649731	0.693051	0.858925	1.691827	1.046299	1.059669	4.749861	0.431095
3		0.607033	0.693574	0.815487	1.877784	0.930418	1.158464	4.819223	0.485051
4		0.585819	0.703845	0.719880	1.535024	0.874996	1.015095	4.463362	0.448068
5									
6	0.638257								
Mean	0.638	0.621	0.699	0.798	1.692	0.970	1.033	4.677	0.450
Std. Dev.		0.029	0.007	0.071	0.141	0.081	0.107	0.189	0.024
% RSD		4.75	0.96	8.91	8.36	8.39	10.39	4.03	5.44

**Calibration Component Summary Table  
Component Summary For RF**

	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
1		0.909060		0.845011		1.225824	0.880141	0.755225	0.786019	5.312754
2	0.655956	0.978418	1.285852	0.820827	1.307372	1.289471	0.908075	0.823678	0.823792	5.142341
3	0.612345	0.880525	1.319597	0.824210	1.384415	1.146289	0.838533	0.721637	0.782694	5.217625
4	0.555013	0.824480	1.240964	0.811100	1.243184	1.136605	0.811924	0.713054	0.766648	5.214496

**Calibration Component Summary Table  
Component Summary For RF**

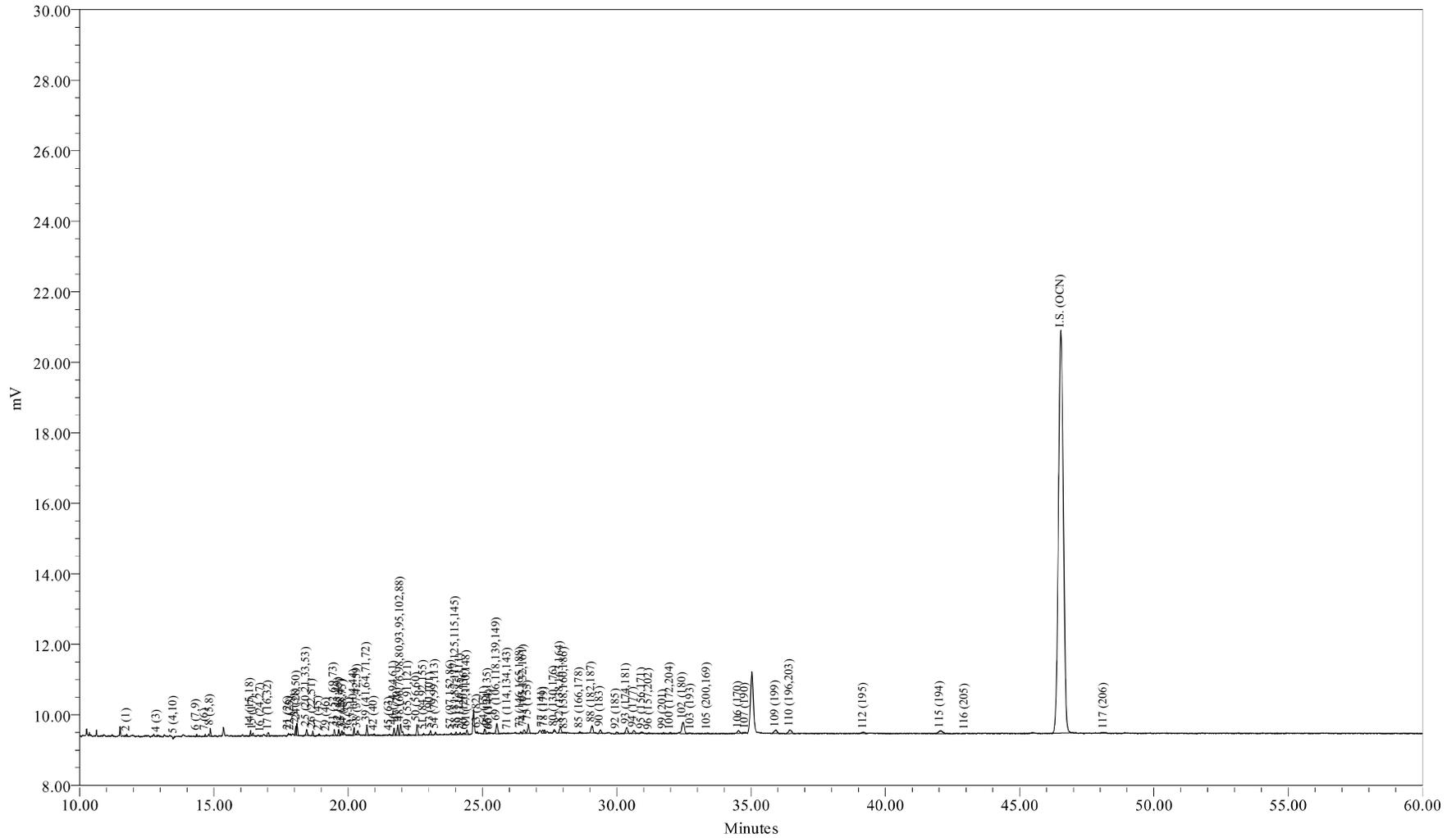
	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
5										
6										
Mean	0.608	0.898	1.282	0.825	1.312	1.200	0.860	0.753	0.790	5.222
Std. Dev.	0.051	0.064	0.039	0.014	0.071	0.072	0.043	0.050	0.024	0.070
% RSD	8.33	7.13	3.08	1.73	5.39	6.01	4.98	6.67	3.06	1.34

**Calibration Component Summary Table  
Component Summary For RF**

	98 (173)	99 (201)	100 (172,204)	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)
1		0.683748	0.790697		1.129030	0.591389		0.762742	1.259239	1.211307
2	1.101575	0.749705	0.742825	0.740500	1.090838	0.716296	0.700188	0.805353	1.533191	1.290152
3	1.026371	0.716127	0.723295	0.665320	1.006916	0.721823	0.727237	0.775802	1.447521	1.156519
4	1.055592	0.661654	0.675387	0.594790	0.938617	0.703027	0.693725	0.778194	1.462398	1.152078
5										
6										
Mean	1.061	0.703	0.733	0.667	1.041	0.683	0.707	0.781	1.426	1.203
Std. Dev.	0.038	0.038	0.048	0.073	0.085	0.062	0.018	0.018	0.117	0.064
% RSD	3.57	5.47	6.51	10.93	8.20	9.03	2.51	2.29	8.21	5.35

**Calibration Component Summary Table  
Component Summary For RF**

	108 (198)	109 (199)	110 (196,203)	111 (189)	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1		0.584142	0.630468		1.518602			1.500402	0.935912	1.104872	
2	0.957892	0.541811	0.657020	1.376553	1.407145	0.556590	1.106368	1.488988	1.036910	1.103244	1.337507
3	1.008968	0.543877	0.608148	1.349026	1.505608	0.563986	1.028103	1.318348	1.006144	1.180095	1.481401
4	1.064806	0.544646	0.604125	1.394378	1.567054	0.535733	1.051917	1.326775	0.960149	1.180980	1.421622
5											
6											
Mean	1.011	0.554	0.625	1.373	1.500	0.552	1.062	1.409	0.985	1.142	1.414
Std. Dev.	0.053	0.020	0.024	0.023	0.067	0.015	0.040	0.100	0.045	0.044	0.072
% RSD	5.29	3.68	3.89	1.66	4.47	2.65	3.78	7.07	4.60	3.87	5.11



Sample Name: ICAL0624A  
Sample ID: ICAL 6.25 ng/mL  
Date Acquired: 06/24/2009 21:04:40 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-94-3

Sample Name: ICAL0624A

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0624A Sample Amount: 1  
 Sample ID: ICAL 6.25 ng/mL Dilution: 1  
 Date Acquired: 06/24/2009 21:04:40 EDT Extract Volume: 1  
 Project Name: GC25\_Mar\_2009 Date Processed: 06/25/2009 21:38:59 EDT  
 Sample Set Name: GC25\_CC\_062409 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062409 Current Date: 06/26/2009  
 Run Time: 60.0 Minutes Current Time: 21:16:38 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC25-94-3

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.757	102	0.439	0.439	0.028803
2	3 (2)	12.785				
3	4 (3)	12.886	29	0.256	0.256	0.014164
4	5 (4,10)	13.515	54	0.124	0.124	0.053659
5	6 (7,9)	14.357	156	0.044	0.044	0.440803
6	7 (6)	14.674	118	0.069	0.069	0.210868
7	8 (5,8)	14.863	525	0.512	0.512	0.127149
8	9 (14)	15.419				
9	10 (19)	15.500				
10	11 (30)	15.967				
11	12 (11)	16.031				
12	13 (12,13)	16.228				
13	14 (15,18)	16.367	411	0.135	0.135	0.375957
14	15 (17)	16.450	173	0.135	0.135	0.158633
15	16 (24,27)	16.743	39	0.009	0.009	0.514149
16	17 (16,32)	17.033	390	0.143	0.143	0.338606
17	19 (23,34,54)	17.462				
18	20 (29)	17.633				
19	21 (26)	17.773	84	0.026	0.026	0.397543
20	22 (25)	17.853	50	0.012	0.012	0.532224
21	23 (31)	18.049	628	0.151	0.151	0.515744
22	24 (28,50)	18.094	932	0.193	0.193	0.598633
23	25 (20,21,33,53)	18.450	504	0.145	0.145	0.430082
24	26 (22,51)	18.683	326	0.106	0.106	0.380977
25	27 (45)	18.910	128	0.033	0.033	0.487546
26	28 (36)	19.044				
27	29 (46)	19.194	42	0.015	0.015	0.355716
28	30 (39)	19.306				

**Peak Results**

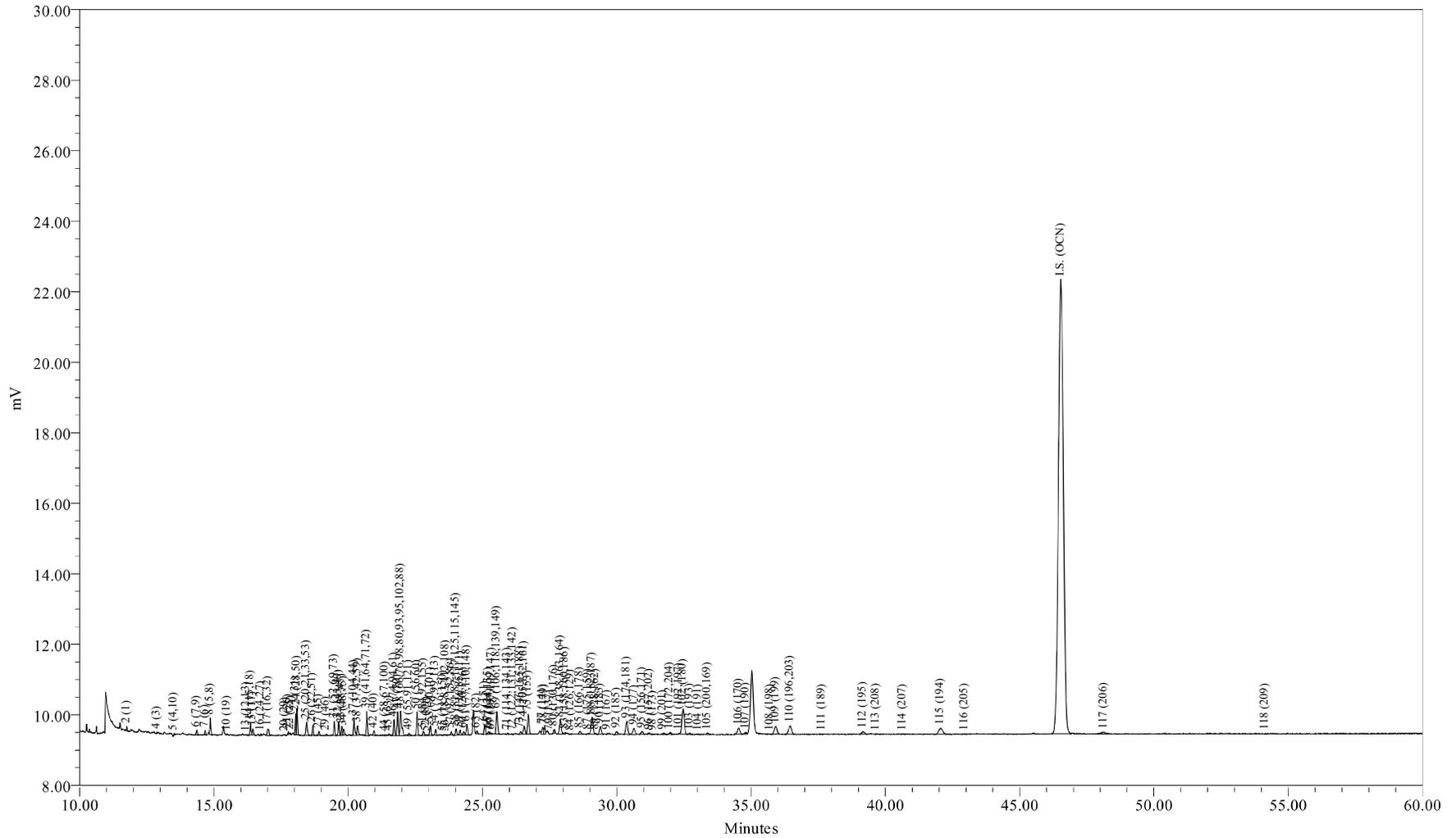
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.479	521	0.174	0.174	0.370163
30	32 (43,49)	19.646	511	0.084	0.084	0.752355
31	33 (38,47)	19.765	323	0.037	0.037	1.095958
32	34 (48,75)	19.827	217	0.037	0.037	0.735162
33	35 (62,65)	19.962				
34	36 (35)	20.023	39			
35	37 (104,44)	20.221	659	0.157	0.157	0.519117
36	38 (37,42,59)	20.355	406	0.095	0.095	0.528867
37	39 (41,64,71,72)	20.696	873	0.150	0.150	0.721112
38	41 (68,96)	20.860				
39	42 (40)	20.965	140	0.034	0.034	0.505353
40	43 (57,103)	21.212				
41	44 (58,67,100)	21.378				
42	45 (63)	21.540	49	0.008	0.008	0.788303
43	46 (74,94,61)	21.708	604	0.069	0.069	1.077284
44	47 (70)	21.845	877	0.124	0.124	0.873864
45	48 (66,76,98,80,93,95,102,88)	21.957	1201	0.263	0.263	0.565455
46	49 (55,91,121)	22.252	82	0.019	0.019	0.545443
47	50 (56,60)	22.564	935	0.128	0.128	0.905232
48	51 (84,92,155)	22.814	161	0.066	0.066	0.303882
49	52 (89)	22.912				
50	53 (90,101)	23.061	344	0.066	0.066	0.647376
51	54 (79,99,113)	23.246	201	0.027	0.027	0.920579
52	55 (119,150)	23.530				
53	56 (78,83,112,108)	23.631				
54	57 (97,152,86)	23.837	165	0.020	0.020	0.996515
55	58 (81,87,117,125,115,145)	24.012	296	0.042	0.042	0.865259
56	59 (116,85,111)	24.160	215	0.026	0.026	1.040993
57	60 (120,136)	24.335	208	0.027	0.027	0.938192
58	61 (77,110,148)	24.421	482	0.078	0.078	0.767170
59	62 (154)	24.693				
60	63 (82)	24.800	103	0.016	0.016	0.791600
61	64 (151)	25.078	417	0.062	0.062	0.830729
62	65 (124,135)	25.218	87	0.011	0.011	1.012837
63	66 (144)	25.260	70	0.022	0.022	0.397679
64	67 (107,109,147)	25.345				
65	68 (123)	25.431				
66	69 (106,118,139,149)	25.532	1071	0.146	0.146	0.906879
67	70 (140)	25.643				
68	71 (114,134,143)	25.945	45	0.007	0.007	0.756308

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.143				
70	73 (146,165,188)	26.421	126	0.014	0.014	1.096875
71	74 (105,132,161)	26.541	426	0.050	0.050	1.065423
72	75 (153)	26.707	972	0.108	0.108	1.117965
73	76 (127,168,184)	26.813				
74	77 (141)	27.237	321	0.062	0.062	0.639747
75	78 (179)	27.317	304	0.053	0.053	0.705855
76	79 (137)	27.515				
77	80 (130,176)	27.672	128	0.009	0.009	1.662998
78	82 (138,163,164)	27.896	820	0.099	0.099	1.028924
79	83 (158,160,186)	28.047	66	0.009	0.009	0.899497
80	84 (126,129)	28.289				
81	85 (166,178)	28.627	141	0.040	0.040	0.435522
82	87 (175,159)	28.936				
83	88 (182,187)	29.075	966	0.132	0.132	0.909060
84	89 (128,162)	29.198				
85	90 (183)	29.388	424	0.062	0.062	0.845011
86	91 (167)	29.644				
87	92 (185)	29.980	170	0.017	0.017	1.225824
88	93 (174,181)	30.365	831	0.117	0.117	0.880141
89	94 (177)	30.631	379	0.062	0.062	0.755225
90	95 (156,171)	30.936	183	0.029	0.029	0.786019
91	96 (157,202)	31.204	104	0.002	0.002	5.312754
92	98 (173)	31.376				
93	99 (201)	31.737	79	0.014	0.014	0.683748
94	100 (172,204)	31.998	131	0.020	0.020	0.790697
95	101 (192,197)	32.286				
96	102 (180)	32.467	2032	0.223	0.223	1.129030
97	103 (193)	32.764	73	0.015	0.015	0.591389
98	104 (191)	33.035				
99	105 (200,169)	33.373	97	0.016	0.016	0.762742
100	106 (170)	34.523	476	0.047	0.047	1.259239
101	107 (190)	34.787	150	0.015	0.015	1.211307
102	108 (198)	35.677				
103	109 (199)	35.919	724	0.154	0.154	0.584142
104	110 (196,203)	36.452	800	0.157	0.157	0.630468
105	111 (189)	37.638				
106	112 (195)	39.192	248	0.020	0.020	1.518602
107	113 (208)	39.717				
108	114 (207)	40.648				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.048	797	0.066	0.066	1.500402
110	116 (205)	42.968	30	0.004	0.004	0.935912
111	I.S. (OCN)	46.535	146797	18.180	18.180	8074.635434
112	117 (206)	48.146	222	0.025	0.025	1.104872
113	118 (209)	54.132				



Sample Name: ICAL0624B  
Sample ID: ICAL 12.5 ng/mL  
Date Acquired: 06/24/2009 22:10:21 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-94-4

Sample Name: ICAL0624B

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0624B Sample Amount: 1  
 Sample ID: ICAL 12.5 ng/mL Dilution: 1  
 Date Acquired: 06/24/2009 22:10:21 EDT Extract Volume: 1  
 Project Name: GC25\_Mar\_2009 Date Processed: 06/25/2009 21:39:03 EDT  
 Sample Set Name: GC25\_CC\_062409 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062409 Current Date: 06/26/2009  
 Run Time: 60.0 Minutes Current Time: 21:16:52 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC25-94-4

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.759	199	0.877	0.877	0.024841
2	3 (2)	12.785				
3	4 (3)	12.885	62	0.512	0.512	0.013347
4	5 (4,10)	13.513	118	0.249	0.249	0.051906
5	6 (7,9)	14.363	382	0.088	0.088	0.475679
6	7 (6)	14.673	288	0.139	0.139	0.226451
7	8 (5,8)	14.861	1188	1.023	1.023	0.126939
8	9 (14)	15.419				
9	10 (19)	15.500	59	0.020	0.020	0.312822
10	11 (30)	15.967				
11	12 (11)	16.031				
12	13 (12,13)	16.217	56	0.020	0.020	0.314956
13	14 (15,18)	16.362	964	0.270	0.270	0.389885
14	15 (17)	16.449	482	0.270	0.270	0.194903
15	16 (24,27)	16.746	84	0.019	0.019	0.481947
16	17 (16,32)	17.019	871	0.285	0.285	0.333977
17	19 (23,34,54)	17.462				
18	20 (29)	17.645	20	0.004	0.004	0.563389
19	21 (26)	17.772	172	0.053	0.053	0.357312
20	22 (25)	17.843	117	0.023	0.023	0.547353
21	23 (31)	18.047	1436	0.301	0.301	0.521185
22	24 (28,50)	18.095	2156	0.386	0.386	0.611226
23	25 (20,21,33,53)	18.453	1264	0.290	0.290	0.475892
24	26 (22,51)	18.680	816	0.212	0.212	0.420981
25	27 (45)	18.908	249	0.065	0.065	0.418636
26	28 (36)	19.044				
27	29 (46)	19.176	91	0.029	0.029	0.341110
28	30 (39)	19.306				

**Peak Results**

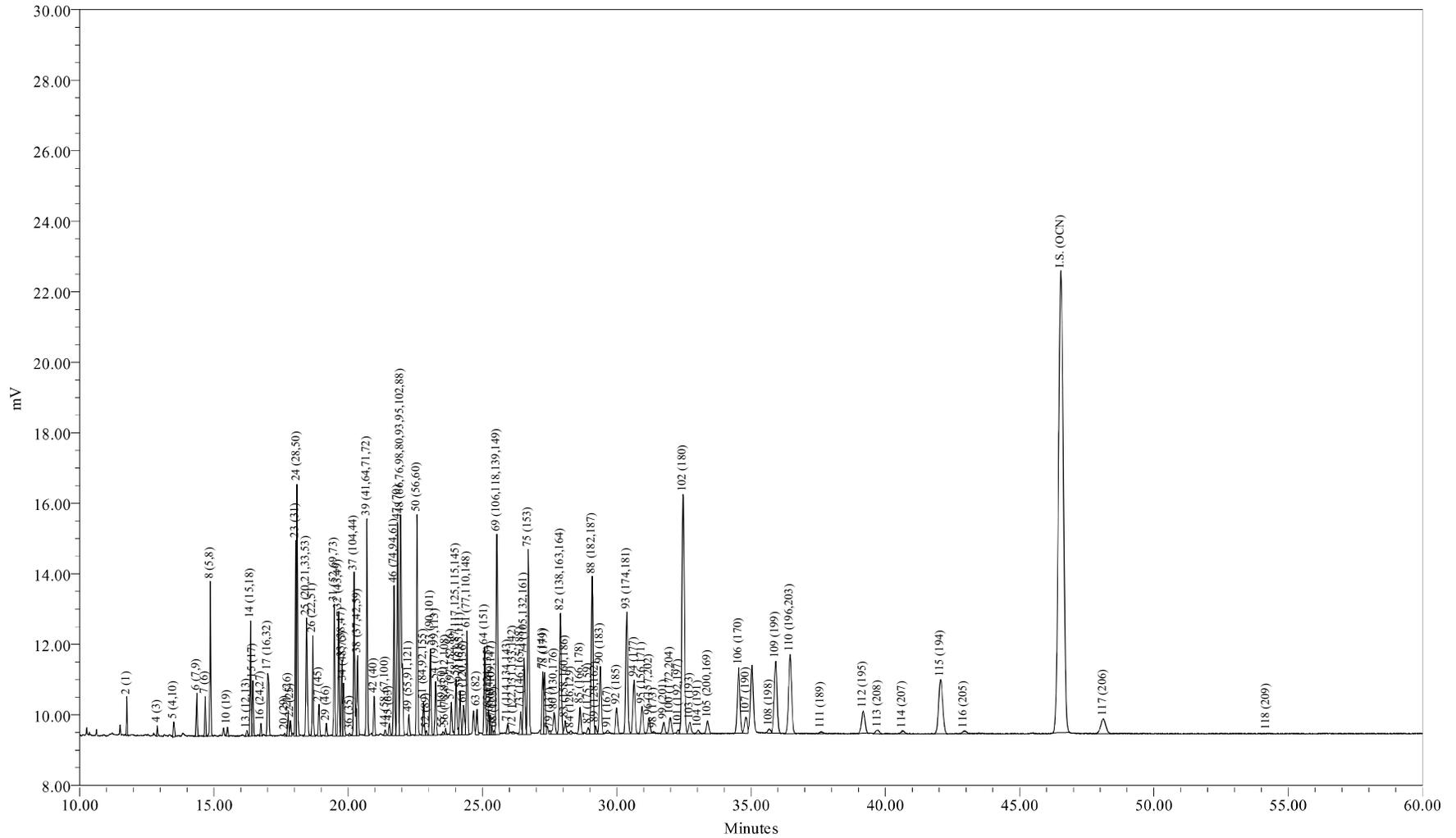
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.482	1140	0.349	0.349	0.357519
30	32 (43,49)	19.645	1095	0.168	0.168	0.712297
31	33 (38,47)	19.762	750	0.073	0.073	1.122153
32	34 (48,75)	19.827	490	0.073	0.073	0.733189
33	35 (62,65)	19.962				
34	36 (35)	20.044				
35	37 (104,44)	20.218	1605	0.314	0.314	0.558289
36	38 (37,42,59)	20.349	878	0.190	0.190	0.504885
37	39 (41,64,71,72)	20.695	2106	0.300	0.300	0.768445
38	41 (68,96)	20.860				
39	42 (40)	20.956	343	0.069	0.069	0.546085
40	43 (57,103)	21.212				
41	44 (58,67,100)	21.377	52	0.008	0.008	0.712114
42	45 (63)	21.520	103	0.015	0.015	0.732157
43	46 (74,94,61)	21.705	1349	0.139	0.139	1.061840
44	47 (70)	21.842	2017	0.249	0.249	0.887649
45	48 (66,76,98,80,93,95,102,88)	21.957	2871	0.526	0.526	0.596525
46	49 (55,91,121)	22.262	208	0.037	0.037	0.611280
47	50 (56,60)	22.564	2032	0.256	0.256	0.868456
48	51 (84,92,155)	22.801	353	0.132	0.132	0.293650
49	52 (89)	22.906	37	0.007	0.007	0.556565
50	53 (90,101)	23.062	828	0.132	0.132	0.688212
51	54 (79,99,113)	23.252	485	0.054	0.054	0.980568
52	55 (119,150)	23.547	29	0.002	0.002	1.560053
53	56 (78,83,112,108)	23.638	54	0.011	0.011	0.537686
54	57 (97,152,86)	23.839	308	0.041	0.041	0.822825
55	58 (81,87,117,125,115,145)	24.016	632	0.085	0.085	0.815662
56	59 (116,85,111)	24.168	434	0.051	0.051	0.926347
57	60 (120,136)	24.300	378	0.055	0.055	0.753062
58	61 (77,110,148)	24.420	1005	0.156	0.156	0.706196
59	62 (154)	24.693				
60	63 (82)	24.791	230	0.032	0.032	0.780694
61	64 (151)	25.081	880	0.124	0.124	0.774305
62	65 (124,135)	25.220	249	0.021	0.021	1.282132
63	66 (144)	25.270	180	0.044	0.044	0.448945
64	67 (107,109,147)	25.343	62	0.009	0.009	0.709726
65	68 (123)	25.431				
66	69 (106,118,139,149)	25.531	2285	0.292	0.292	0.854644
67	70 (140)	25.643				
68	71 (114,134,143)	25.944	96	0.015	0.015	0.712545

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.132	23	0.002	0.002	1.176697
70	73 (146,165,188)	26.421	242	0.029	0.029	0.928371
71	74 (105,132,161)	26.553	984	0.099	0.099	1.085985
72	75 (153)	26.707	2129	0.215	0.215	1.081579
73	76 (127,168,184)	26.813				
74	77 (141)	27.241	738	0.124	0.124	0.649731
75	78 (179)	27.311	676	0.107	0.107	0.693051
76	79 (137)	27.499	43	0.005	0.005	0.858925
77	80 (130,176)	27.669	294	0.019	0.019	1.691827
78	82 (138,163,164)	27.899	1888	0.197	0.197	1.046299
79	83 (158,160,186)	28.086	177	0.018	0.018	1.059669
80	84 (126,129)	28.292	41	0.001	0.001	4.749861
81	85 (166,178)	28.628	317	0.080	0.080	0.431095
82	87 (175,159)	28.939	88	0.015	0.015	0.655956
83	88 (182,187)	29.080	2355	0.263	0.263	0.978418
84	89 (128,162)	29.208	86	0.007	0.007	1.285852
85	90 (183)	29.388	933	0.124	0.124	0.820827
86	91 (167)	29.647	43	0.004	0.004	1.307372
87	92 (185)	29.993	405	0.034	0.034	1.289471
88	93 (174,181)	30.375	1942	0.234	0.234	0.908075
89	94 (177)	30.640	936	0.124	0.124	0.823678
90	95 (156,171)	30.948	435	0.058	0.058	0.823792
91	96 (157,202)	31.213	227	0.005	0.005	5.142341
92	98 (173)	31.361	28	0.003	0.003	1.101575
93	99 (201)	31.724	195	0.029	0.029	0.749705
94	100 (172,204)	31.980	278	0.041	0.041	0.742825
95	101 (192,197)	32.319	54	0.008	0.008	0.740500
96	102 (180)	32.470	4448	0.446	0.446	1.090838
97	103 (193)	32.729	201	0.031	0.031	0.716296
98	104 (191)	33.037	56	0.009	0.009	0.700188
99	105 (200,169)	33.380	231	0.031	0.031	0.805353
100	106 (170)	34.534	1312	0.094	0.094	1.533191
101	107 (190)	34.805	362	0.031	0.031	1.290152
102	108 (198)	35.711	77	0.009	0.009	0.957892
103	109 (199)	35.920	1521	0.307	0.307	0.541811
104	110 (196,203)	36.455	1889	0.314	0.314	0.657020
105	111 (189)	37.643	37	0.003	0.003	1.376553
106	112 (195)	39.162	520	0.040	0.040	1.407145
107	113 (208)	39.662	92	0.018	0.018	0.556590
108	114 (207)	40.649	69	0.007	0.007	1.106368

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.052	1792	0.132	0.132	1.488988
110	116 (205)	42.960	76	0.008	0.008	1.036910
111	I.S. (OCN)	46.535	166260	18.180	18.180	9145.208901
112	117 (206)	48.138	501	0.050	0.050	1.103244
113	118 (209)	54.150	11	0.001	0.001	1.337507



Sample Name: ICAL0624C  
Sample ID: ICAL 125 ng/mL  
Date Acquired: 06/24/2009 23:15:52 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-94-5



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0624C Sample Amount: 1  
 Sample ID: ICAL 125 ng/mL Dilution: 1  
 Date Acquired: 06/24/2009 23:15:52 EDT Extract Volume: 1  
 Project Name: GC25\_Mar\_2009 Date Processed: 06/25/2009 21:39:07 EDT  
 Sample Set Name: GC25\_CC\_062409 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062409 Current Date: 06/26/2009  
 Run Time: 60.0 Minutes Current Time: 21:16:57 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC25-94-5

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.758	2045	8.771	8.771	0.025239
2	3 (2)	12.785				
3	4 (3)	12.889	626	5.117	5.117	0.013245
4	5 (4,10)	13.503	1265	2.485	2.485	0.055114
5	6 (7,9)	14.361	3457	0.877	0.877	0.426697
6	7 (6)	14.673	2631	1.389	1.389	0.205059
7	8 (5,8)	14.862	10944	10.233	10.233	0.115771
8	9 (14)	15.419				
9	10 (19)	15.503	626	0.205	0.205	0.331131
10	11 (30)	15.967				
11	12 (11)	16.031				
12	13 (12,13)	16.232	616	0.195	0.195	0.341762
13	14 (15,18)	16.364	9004	2.704	2.704	0.360388
14	15 (17)	16.449	4114	2.704	2.704	0.164670
15	16 (24,27)	16.748	908	0.190	0.190	0.517541
16	17 (16,32)	17.007	7728	2.851	2.851	0.293462
17	19 (23,34,54)	17.462				
18	20 (29)	17.640	213	0.039	0.039	0.593900
19	21 (26)	17.766	1998	0.526	0.526	0.410895
20	22 (25)	17.848	1233	0.234	0.234	0.570515
21	23 (31)	18.047	14360	3.014	3.014	0.515803
22	24 (28,50)	18.095	20297	3.857	3.857	0.569623
23	25 (20,21,33,53)	18.450	11554	2.903	2.903	0.430813
24	26 (22,51)	18.682	7940	2.120	2.120	0.405446
25	27 (45)	18.911	2695	0.650	0.650	0.448464
26	28 (36)	19.044				
27	29 (46)	19.190	1059	0.292	0.292	0.392105
28	30 (39)	19.306				

**Peak Results**

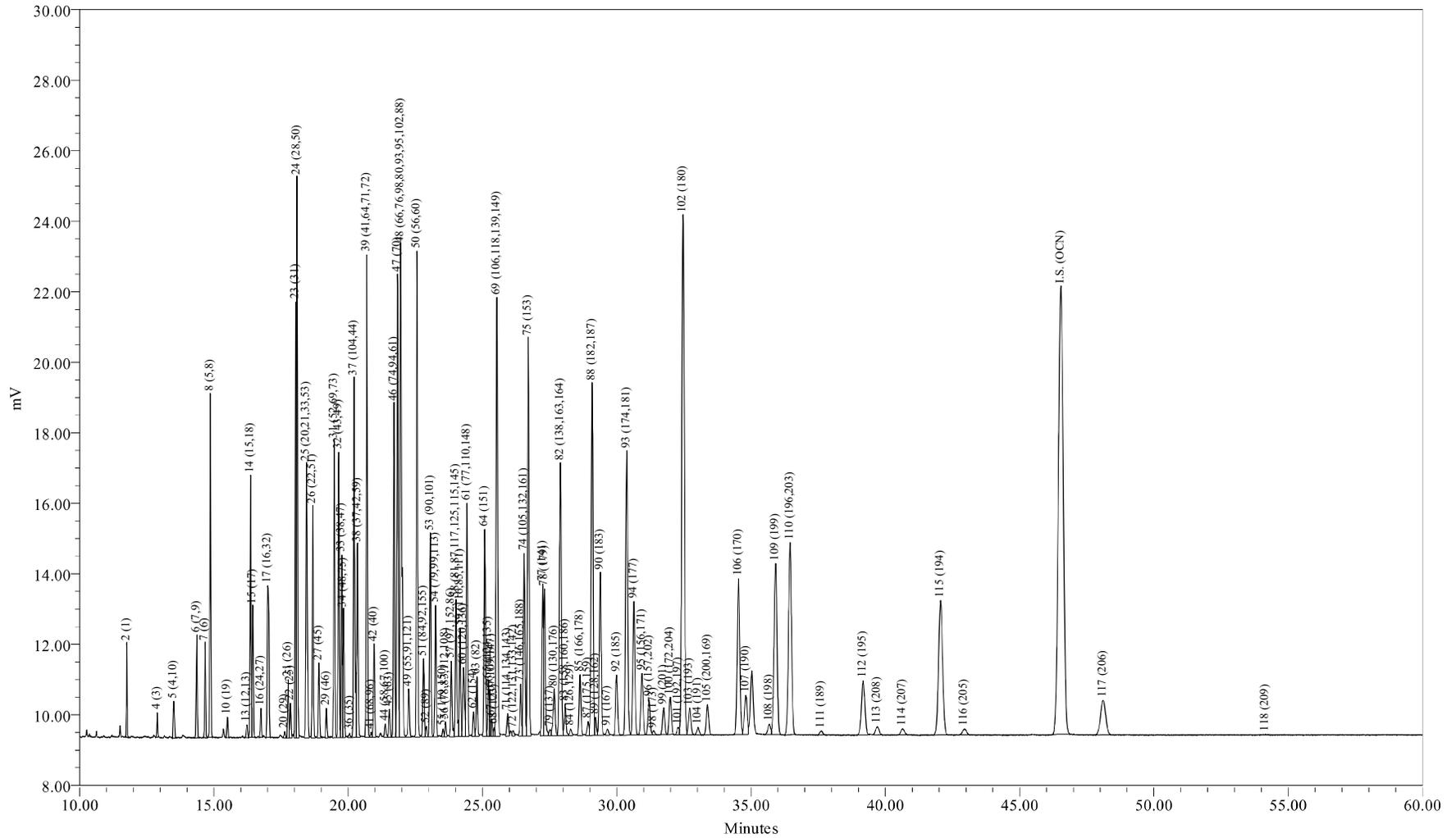
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.482	11007	3.487	3.487	0.341743
30	32 (43,49)	19.648	10518	1.681	1.681	0.677239
31	33 (38,47)	19.763	6336	0.731	0.731	0.938191
32	34 (48,75)	19.826	4514	0.731	0.731	0.668413
33	35 (62,65)	19.962				
34	36 (35)	20.045	294			
35	37 (104,44)	20.219	15307	3.143	3.143	0.527188
36	38 (37,42,59)	20.350	7362	1.901	1.901	0.419347
37	39 (41,64,71,72)	20.697	19111	2.997	2.997	0.690296
38	41 (68,96)	20.860				
39	42 (40)	20.962	3418	0.687	0.687	0.538441
40	43 (57,103)	21.212				
41	44 (58,67,100)	21.379	592	0.080	0.080	0.796859
42	45 (63)	21.538	1092	0.154	0.154	0.770313
43	46 (74,94,61)	21.708	12949	1.389	1.389	1.009321
44	47 (70)	21.842	18653	2.485	2.485	0.812500
45	48 (66,76,98,80,93,95,102,88)	21.958	26104	5.263	5.263	0.536947
46	49 (55,91,121)	22.261	1974	0.373	0.373	0.573237
47	50 (56,60)	22.563	19290	2.558	2.558	0.816262
48	51 (84,92,155)	22.805	3569	1.316	1.316	0.293681
49	52 (89)	22.911	388	0.073	0.073	0.574849
50	53 (90,101)	23.062	7969	1.316	1.316	0.655664
51	54 (79,99,113)	23.252	4984	0.541	0.541	0.997496
52	55 (119,150)	23.523	275	0.020	0.020	1.452154
53	56 (78,83,112,108)	23.628	560	0.110	0.110	0.552849
54	57 (97,152,86)	23.840	3253	0.409	0.409	0.860298
55	58 (81,87,117,125,115,145)	24.015	5757	0.848	0.848	0.735002
56	59 (116,85,111)	24.166	4158	0.512	0.512	0.879489
57	60 (120,136)	24.295	3629	0.548	0.548	0.716706
58	61 (77,110,148)	24.420	9453	1.557	1.557	0.657254
59	62 (154)	24.693				
60	63 (82)	24.790	2580	0.322	0.322	0.868327
61	64 (151)	25.084	8296	1.243	1.243	0.722687
62	65 (124,135)	25.221	2427	0.212	0.212	1.239137
63	66 (144)	25.283	1892	0.439	0.439	0.466956
64	67 (107,109,147)	25.351	658	0.095	0.095	0.750058
65	68 (123)	25.437	362			
66	69 (106,118,139,149)	25.534	22045	2.924	2.924	0.816194
67	70 (140)	25.643				
68	71 (114,134,143)	25.937	1058	0.148	0.148	0.776206

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.140	278	0.021	0.021	1.413659
70	73 (146,165,188)	26.426	2462	0.285	0.285	0.934547
71	74 (105,132,161)	26.550	9788	0.990	0.990	1.069926
72	75 (153)	26.706	19699	2.153	2.153	0.990565
73	76 (127,168,184)	26.813				
74	77 (141)	27.242	6968	1.243	1.243	0.607033
75	78 (179)	27.312	6838	1.067	1.067	0.693574
76	79 (137)	27.512	413	0.055	0.055	0.815487
77	80 (130,176)	27.672	3295	0.190	0.190	1.877784
78	82 (138,163,164)	27.900	16963	1.974	1.974	0.930418
79	83 (158,160,186)	28.076	1955	0.183	0.183	1.158464
80	84 (126,129)	28.289	421	0.009	0.009	4.819223
81	85 (166,178)	28.632	3602	0.804	0.804	0.485051
82	87 (175,159)	28.934	827	0.146	0.146	0.612345
83	88 (182,187)	29.082	21404	2.631	2.631	0.880525
84	89 (128,162)	29.202	891	0.073	0.073	1.319597
85	90 (183)	29.389	9461	1.243	1.243	0.824210
86	91 (167)	29.665	459	0.036	0.036	1.384415
87	92 (185)	29.993	3637	0.343	0.343	1.146289
88	93 (174,181)	30.371	18118	2.339	2.339	0.838533
89	94 (177)	30.639	8283	1.243	1.243	0.721637
90	95 (156,171)	30.941	4176	0.578	0.578	0.782694
91	96 (157,202)	31.200	2327	0.048	0.048	5.217625
92	98 (173)	31.380	263	0.028	0.028	1.026371
93	99 (201)	31.751	1886	0.285	0.285	0.716127
94	100 (172,204)	31.993	2735	0.409	0.409	0.723295
95	101 (192,197)	32.297	494	0.080	0.080	0.665320
96	102 (180)	32.469	41474	4.459	4.459	1.006916
97	103 (193)	32.726	2047	0.307	0.307	0.721823
98	104 (191)	33.033	589	0.088	0.088	0.727237
99	105 (200,169)	33.384	2252	0.314	0.314	0.775802
100	106 (170)	34.537	12510	0.936	0.936	1.447521
101	107 (190)	34.812	3280	0.307	0.307	1.156519
102	108 (198)	35.684	817	0.088	0.088	1.008968
103	109 (199)	35.915	15424	3.070	3.070	0.543877
104	110 (196,203)	36.449	17658	3.143	3.143	0.608148
105	111 (189)	37.604	363	0.029	0.029	1.349026
106	112 (195)	39.178	5621	0.404	0.404	1.505608
107	113 (208)	39.729	940	0.180	0.180	0.563986
108	114 (207)	40.634	646	0.068	0.068	1.028103

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.060	16023	1.316	1.316	1.318348
110	116 (205)	42.935	747	0.080	0.080	1.006144
111	I.S. (OCN)	46.535	167942	18.180	18.180	9237.759538
112	117 (206)	48.124	5418	0.497	0.497	1.180095
113	118 (209)	54.194	121	0.009	0.009	1.481401



Sample Name: ICAL0624D  
Sample ID: ICAL 314 ng/mL  
Date Acquired: 06/25/2009 00:21:22 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-94-6

Sample Name: ICAL0624D

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0624D Sample Amount: 1  
 Sample ID: ICAL 314 ng/mL Dilution: 1  
 Date Acquired: 06/25/2009 00:21:22 EDT Extract Volume: 1  
 Project Name: GC25\_Mar\_2009 Date Processed: 06/25/2009 21:39:11 EDT  
 Sample Set Name: GC25\_CC\_062409 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062409 Current Date: 06/26/2009  
 Run Time: 60.0 Minutes Current Time: 21:17:01 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC25-94-6

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.757	4827	21.928	21.928	0.024456
2	3 (2)	12.785				
3	4 (3)	12.889	1406	12.792	12.792	0.012210
4	5 (4,10)	13.502	3109	6.213	6.213	0.055586
5	6 (7,9)	14.359	8190	2.193	2.193	0.414939
6	7 (6)	14.672	6227	3.472	3.472	0.199231
7	8 (5,8)	14.862	24992	25.583	25.583	0.108524
8	9 (14)	15.419				
9	10 (19)	15.504	1446	0.512	0.512	0.313756
10	11 (30)	15.967				
11	12 (11)	16.031				
12	13 (12,13)	16.231	1327	0.488	0.488	0.302310
13	14 (15,18)	16.363	21054	6.761	6.761	0.345938
14	15 (17)	16.449	9873	6.761	6.761	0.162229
15	16 (24,27)	16.748	2199	0.475	0.475	0.514314
16	17 (16,32)	17.006	18930	7.127	7.127	0.295088
17	19 (23,34,54)	17.462				
18	20 (29)	17.637	502	0.097	0.097	0.575221
19	21 (26)	17.765	4580	1.316	1.316	0.386723
20	22 (25)	17.847	2715	0.585	0.585	0.515721
21	23 (31)	18.047	32761	7.534	7.534	0.483071
22	24 (28,50)	18.094	45049	9.643	9.643	0.518979
23	25 (20,21,33,53)	18.449	26823	7.258	7.258	0.410539
24	26 (22,51)	18.681	18896	5.300	5.300	0.396095
25	27 (45)	18.909	6167	1.626	1.626	0.421325
26	28 (36)	19.044				
27	29 (46)	19.188	2472	0.731	0.731	0.375667
28	30 (39)	19.306				

**Peak Results**

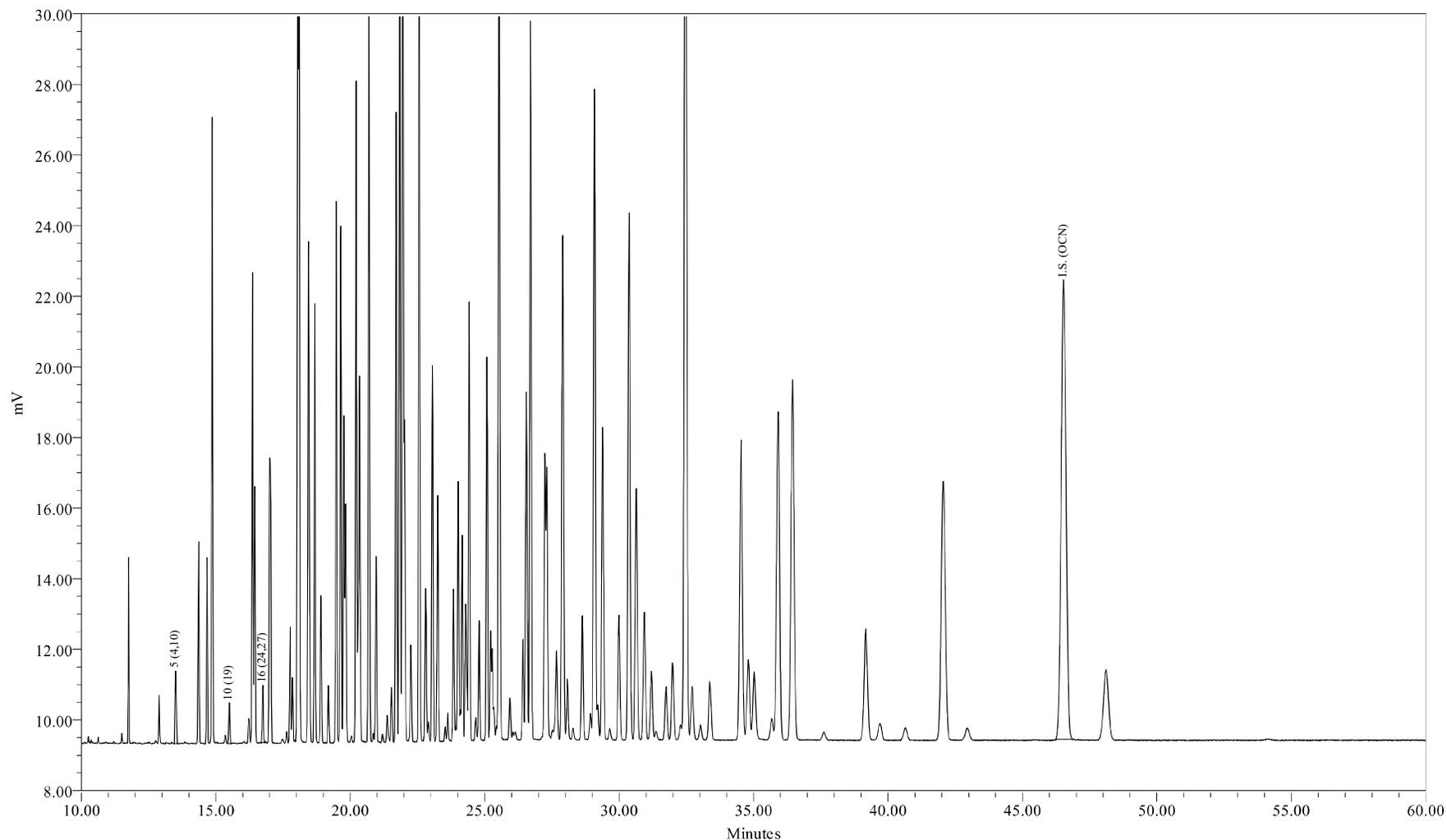
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.480	25112	8.716	8.716	0.320060
30	32 (43,49)	19.648	24308	4.203	4.203	0.642485
31	33 (38,47)	19.762	15017	1.828	1.828	0.912798
32	34 (48,75)	19.826	10353	1.828	1.828	0.629285
33	35 (62,65)	19.962				
34	36 (35)	20.047	469			
35	37 (104,44)	20.219	34775	7.858	7.858	0.491641
36	38 (37,42,59)	20.347	17794	4.751	4.751	0.416048
37	39 (41,64,71,72)	20.695	43349	7.492	7.492	0.642756
38	41 (68,96)	20.856	497			
39	42 (40)	20.960	8085	1.718	1.718	0.522901
40	43 (57,103)	21.212				
41	44 (58,67,100)	21.380	1360	0.201	0.201	0.751786
42	45 (63)	21.536	2515	0.384	0.384	0.728073
43	46 (74,94,61)	21.706	29891	3.472	3.472	0.956398
44	47 (70)	21.840	42187	6.213	6.213	0.754328
45	48 (66,76,98,80,93,95,102,88)	21.956	59557	13.157	13.157	0.502875
46	49 (55,91,121)	22.258	4714	0.932	0.932	0.561852
47	50 (56,60)	22.562	44393	6.396	6.396	0.771103
48	51 (84,92,155)	22.803	8276	3.289	3.289	0.279512
49	52 (89)	22.911	920	0.183	0.183	0.559317
50	53 (90,101)	23.060	18581	3.289	3.289	0.627556
51	54 (79,99,113)	23.251	11808	1.352	1.352	0.970033
52	55 (119,150)	23.533	718	0.051	0.051	1.557591
53	56 (78,83,112,108)	23.626	1381	0.274	0.274	0.560016
54	57 (97,152,86)	23.840	7494	1.023	1.023	0.813673
55	58 (81,87,117,125,115,145)	24.013	13639	2.120	2.120	0.714789
56	59 (116,85,111)	24.165	9854	1.279	1.279	0.855707
57	60 (120,136)	24.292	8410	1.370	1.370	0.681689
58	61 (77,110,148)	24.419	22037	3.892	3.892	0.628982
59	62 (154)	24.662	2550			
60	63 (82)	24.789	5661	0.804	0.804	0.782307
61	64 (151)	25.083	19320	3.106	3.106	0.690903
62	65 (124,135)	25.217	5434	0.530	0.530	1.138800
63	66 (144)	25.279	4255	1.097	1.097	0.431088
64	67 (107,109,147)	25.343	1471	0.237	0.237	0.688355
65	68 (123)	25.436	730			
66	69 (106,118,139,149)	25.532	48824	7.309	7.309	0.742047
67	70 (140)	25.643				
68	71 (114,134,143)	25.937	2838	0.369	0.369	0.854517

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.149	759	0.053	0.053	1.585034
70	73 (146,165,188)	26.423	5327	0.713	0.713	0.830158
71	74 (105,132,161)	26.548	23067	2.476	2.476	1.035001
72	75 (153)	26.704	43911	5.382	5.382	0.906410
73	76 (127,168,184)	26.813				
74	77 (141)	27.242	16381	3.106	3.106	0.585819
75	78 (179)	27.312	16904	2.668	2.668	0.703845
76	79 (137)	27.520	887	0.137	0.137	0.719880
77	80 (130,176)	27.674	6562	0.475	0.475	1.535024
78	82 (138,163,164)	27.897	39099	4.964	4.964	0.874996
79	83 (158,160,186)	28.077	4173	0.457	0.457	1.015095
80	84 (126,129)	28.281	950	0.024	0.024	4.463362
81	85 (166,178)	28.630	8107	2.010	2.010	0.448068
82	87 (175,159)	28.928	1826	0.366	0.366	0.555013
83	88 (182,187)	29.079	48823	6.578	6.578	0.824480
84	89 (128,162)	29.207	2042	0.183	0.183	1.240964
85	90 (183)	29.386	22681	3.106	3.106	0.811100
86	91 (167)	29.650	1003	0.090	0.090	1.243184
87	92 (185)	29.992	8785	0.859	0.859	1.136605
88	93 (174,181)	30.370	42736	5.847	5.847	0.811924
89	94 (177)	30.637	19939	3.106	3.106	0.713054
90	95 (156,171)	30.939	9964	1.444	1.444	0.766648
91	96 (157,202)	31.201	5665	0.121	0.121	5.214496
92	98 (173)	31.370	660	0.069	0.069	1.055592
93	99 (201)	31.743	4246	0.713	0.713	0.661654
94	100 (172,204)	31.993	6220	1.023	1.023	0.675387
95	101 (192,197)	32.285	1076	0.201	0.201	0.594790
96	102 (180)	32.468	94181	11.147	11.147	0.938617
97	103 (193)	32.712	4857	0.768	0.768	0.703027
98	104 (191)	33.027	1369	0.219	0.219	0.693725
99	105 (200,169)	33.379	5504	0.786	0.786	0.778194
100	106 (170)	34.531	30790	2.339	2.339	1.462398
101	107 (190)	34.802	7959	0.768	0.768	1.152078
102	108 (198)	35.681	2101	0.219	0.219	1.064806
103	109 (199)	35.910	37628	7.675	7.675	0.544646
104	110 (196,203)	36.454	42731	7.858	7.858	0.604125
105	111 (189)	37.615	915	0.073	0.073	1.394378
106	112 (195)	39.173	14252	1.010	1.010	1.567054
107	113 (208)	39.699	2176	0.451	0.451	0.535733
108	114 (207)	40.638	1609	0.170	0.170	1.051917

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.059	39283	3.289	3.289	1.326775
110	116 (205)	42.943	1737	0.201	0.201	0.960149
111	I.S. (OCN)	46.537	163648	18.180	18.180	9001.561734
112	117 (206)	48.103	13207	1.242	1.242	1.180980
113	118 (209)	54.162	284	0.022	0.022	1.421622



Sample Name: ICAL0624E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 06/25/2009 01:26:52 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-94-7

Sample Name: ICAL0624E

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0624E Sample Amount: 1  
 Sample ID: ICAL 627 ng/mL Dilution: 1  
 Date Acquired: 06/25/2009 01:26:52 EDT Extract Volume: 1  
 Project Name: GC25\_Mar\_2009 Date Processed: 06/25/2009 21:39:15 EDT  
 Sample Set Name: GC25\_CC\_062409 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062409 Current Date: 06/26/2009  
 Run Time: 60.0 Minutes Current Time: 21:17:05 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC25-94-7

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.754				
2	3 (2)	12.785				
3	4 (3)	12.889				
4	5 (4,10)	13.503	6156	12.426	12.426	0.054299
5	6 (7,9)	14.355				
6	7 (6)	14.668				
7	8 (5,8)	14.858				
8	9 (14)	15.419				
9	10 (19)	15.504	2862	1.024	1.024	0.306397
10	11 (30)	15.967				
11	12 (11)	16.031				
12	13 (12,13)	16.228				
13	14 (15,18)	16.360				
14	15 (17)	16.444				
15	16 (24,27)	16.748	4365	0.950	0.950	0.503658
16	17 (16,32)	17.016				
17	19 (23,34,54)	17.462				
18	20 (29)	17.633				
19	21 (26)	17.760				
20	22 (25)	17.842				
21	23 (31)	18.040				
22	24 (28,50)	18.089				
23	25 (20,21,33,53)	18.444				
24	26 (22,51)	18.675				
25	27 (45)	18.905				
26	28 (36)	19.044				
27	29 (46)	19.183				
28	30 (39)	19.306				

**Peak Results**

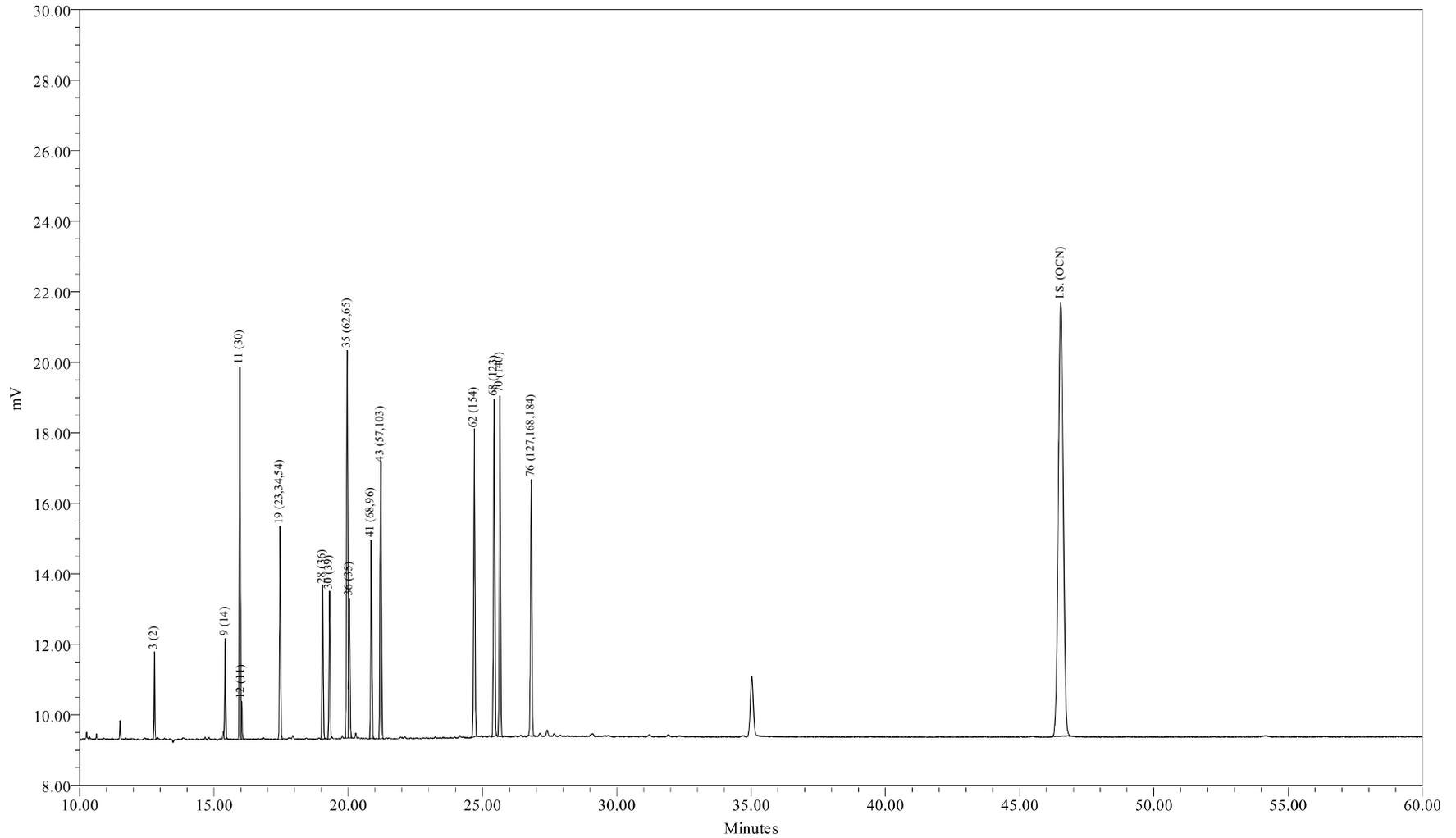
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.478				
30	32 (43,49)	19.645				
31	33 (38,47)	19.759				
32	34 (48,75)	19.823				
33	35 (62,65)	19.962				
34	36 (35)	20.044				
35	37 (104,44)	20.217				
36	38 (37,42,59)	20.346				
37	39 (41,64,71,72)	20.692				
38	41 (68,96)	20.860				
39	42 (40)	20.959				
40	43 (57,103)	21.212				
41	44 (58,67,100)	21.378				
42	45 (63)	21.533				
43	46 (74,94,61)	21.705				
44	47 (70)	21.837				
45	48 (66,76,98,80,93,95,102,88)	21.954				
46	49 (55,91,121)	22.257				
47	50 (56,60)	22.560				
48	51 (84,92,155)	22.801				
49	52 (89)	22.912				
50	53 (90,101)	23.058				
51	54 (79,99,113)	23.251				
52	55 (119,150)	23.530				
53	56 (78,83,112,108)	23.631				
54	57 (97,152,86)	23.841				
55	58 (81,87,117,125,115,145)	24.013				
56	59 (116,85,111)	24.167				
57	60 (120,136)	24.293				
58	61 (77,110,148)	24.418				
59	62 (154)	24.693				
60	63 (82)	24.787				
61	64 (151)	25.082				
62	65 (124,135)	25.218				
63	66 (144)	25.279				
64	67 (107,109,147)	25.345				
65	68 (123)	25.431				
66	69 (106,118,139,149)	25.532				
67	70 (140)	25.643				
68	71 (114,134,143)	25.933				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.143				
70	73 (146,165,188)	26.421				
71	74 (105,132,161)	26.547				
72	75 (153)	26.705				
73	76 (127,168,184)	26.813				
74	77 (141)	27.240				
75	78 (179)	27.311				
76	79 (137)	27.515				
77	80 (130,176)	27.676				
78	82 (138,163,164)	27.894				
79	83 (158,160,186)	28.075				
80	84 (126,129)	28.289				
81	85 (166,178)	28.629				
82	87 (175,159)	28.936				
83	88 (182,187)	29.082				
84	89 (128,162)	29.198				
85	90 (183)	29.386				
86	91 (167)	29.644				
87	92 (185)	29.991				
88	93 (174,181)	30.369				
89	94 (177)	30.638				
90	95 (156,171)	30.940				
91	96 (157,202)	31.199				
92	98 (173)	31.376				
93	99 (201)	31.751				
94	100 (172,204)	31.998				
95	101 (192,197)	32.286				
96	102 (180)	32.477				
97	103 (193)	32.721				
98	104 (191)	33.035				
99	105 (200,169)	33.385				
100	106 (170)	34.527				
101	107 (190)	34.811				
102	108 (198)	35.677				
103	109 (199)	35.916				
104	110 (196,203)	36.458				
105	111 (189)	37.638				
106	112 (195)	39.178				
107	113 (208)	39.717				
108	114 (207)	40.648				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.060				
110	116 (205)	42.968				
111	I.S. (OCN)	46.527	165875	18.180	18.180	9124.022502
112	117 (206)	48.124				
113	118 (209)	54.132				



Sample Name: SC0624A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 06/25/2009 03:37:51 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGP\_LL1X\_062409  
LIMS File ID: GC25-94-9

Sample Name: SC0624A

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: SC0624A Sample Amount: 1  
 Sample ID: SUP CONG STD 200/5 ng/mL Dilution: 1  
 Date Acquired: 06/25/2009 03:37:51 EDT Extract Volume: 1  
 Project Name: GC25\_Mar\_2009 Date Processed: 06/25/2009 21:39:19 EDT  
 Sample Set Name: GC25\_CC\_062409 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_062409 Current Date: 06/26/2009  
 Run Time: 60.0 Minutes Current Time: 21:17:10 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC25-94-9

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.754				
2	3 (2)	12.786	5111	200.000	200.000	0.002915
3	4 (3)	12.889				
4	5 (4,10)	13.499				
5	6 (7,9)	14.355				
6	7 (6)	14.668				
7	8 (5,8)	14.858				
8	9 (14)	15.419	6937	5.000	5.000	0.158243
9	10 (19)	15.500				
10	11 (30)	15.966	27140	5.000	5.000	0.619094
11	12 (11)	16.029	2550	5.000	5.000	0.058167
12	13 (12,13)	16.228				
13	14 (15,18)	16.360				
14	15 (17)	16.444				
15	16 (24,27)	16.742				
16	17 (16,32)	17.016				
17	19 (23,34,54)	17.461	16434	5.000	5.000	0.374891
18	20 (29)	17.633				
19	21 (26)	17.760				
20	22 (25)	17.842				
21	23 (31)	18.040				
22	24 (28,50)	18.089				
23	25 (20,21,33,53)	18.444				
24	26 (22,51)	18.675				
25	27 (45)	18.905				
26	28 (36)	19.044	12590	5.000	5.000	0.287185
27	29 (46)	19.183				
28	30 (39)	19.306	12275	5.000	5.000	0.280016

**Peak Results**

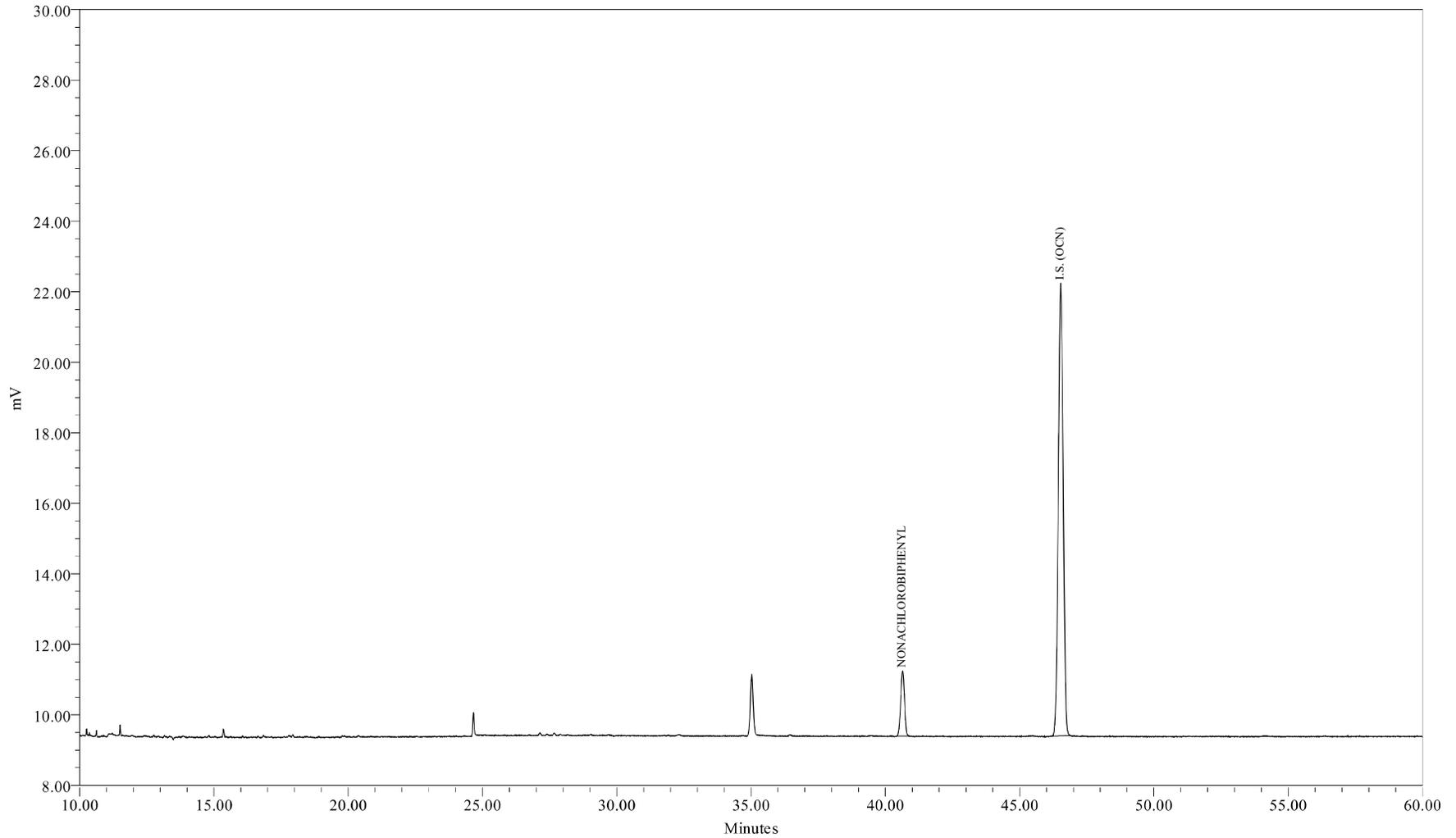
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.478				
30	32 (43,49)	19.645				
31	33 (38,47)	19.759				
32	34 (48,75)	19.823				
33	35 (62,65)	19.962	32765	5.000	5.000	0.747414
34	36 (35)	20.044	11815	5.000	5.000	0.269517
35	37 (104,44)	20.217				
36	38 (37,42,59)	20.346				
37	39 (41,64,71,72)	20.692				
38	41 (68,96)	20.860	17380	5.000	5.000	0.396448
39	42 (40)	20.959				
40	43 (57,103)	21.213	24369	5.000	5.000	0.555891
41	44 (58,67,100)	21.378				
42	45 (63)	21.533				
43	46 (74,94,61)	21.705				
44	47 (70)	21.837				
45	48 (66,76,98,80,93,95,102,88)	21.954				
46	49 (55,91,121)	22.257				
47	50 (56,60)	22.560				
48	51 (84,92,155)	22.801				
49	52 (89)	22.912				
50	53 (90,101)	23.058				
51	54 (79,99,113)	23.251				
52	55 (119,150)	23.530				
53	56 (78,83,112,108)	23.631				
54	57 (97,152,86)	23.841				
55	58 (81,87,117,125,115,145)	24.013				
56	59 (116,85,111)	24.167				
57	60 (120,136)	24.293				
58	61 (77,110,148)	24.418				
59	62 (154)	24.695	29471	5.000	5.000	0.672267
60	63 (82)	24.787				
61	64 (151)	25.082				
62	65 (124,135)	25.218				
63	66 (144)	25.279				
64	67 (107,109,147)	25.345				
65	68 (123)	25.433	31991	5.000	5.000	0.729764
66	69 (106,118,139,149)	25.532				
67	70 (140)	25.646	32466	5.000	5.000	0.740594
68	71 (114,134,143)	25.933				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.143				
70	73 (146,165,188)	26.421				
71	74 (105,132,161)	26.547				
72	75 (153)	26.705				
73	76 (127,168,184)	26.813	27980	5.000	5.000	0.638257
74	77 (141)	27.240				
75	78 (179)	27.311				
76	79 (137)	27.515				
77	80 (130,176)	27.676				
78	82 (138,163,164)	27.894				
79	83 (158,160,186)	28.075				
80	84 (126,129)	28.289				
81	85 (166,178)	28.629				
82	87 (175,159)	28.936				
83	88 (182,187)	29.082				
84	89 (128,162)	29.198				
85	90 (183)	29.386				
86	91 (167)	29.644				
87	92 (185)	29.991				
88	93 (174,181)	30.369				
89	94 (177)	30.638				
90	95 (156,171)	30.940				
91	96 (157,202)	31.199				
92	98 (173)	31.376				
93	99 (201)	31.751				
94	100 (172,204)	31.998				
95	101 (192,197)	32.286				
96	102 (180)	32.477				
97	103 (193)	32.721				
98	104 (191)	33.035				
99	105 (200,169)	33.385				
100	106 (170)	34.527				
101	107 (190)	34.811				
102	108 (198)	35.677				
103	109 (199)	35.916				
104	110 (196,203)	36.458				
105	111 (189)	37.638				
106	112 (195)	39.178				
107	113 (208)	39.717				
108	114 (207)	40.648				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.060				
110	116 (205)	42.968				
111	I.S. (OCN)	46.528	159395	18.180	18.180	8767.602082
112	117 (206)	48.124				
113	118 (209)	54.132				



Sample Name: SS0624A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 06/25/2009 04:43:20 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_2\_062409  
LIMS File ID: GC25-94-10

Sample Name: SS0624A

1 of 1

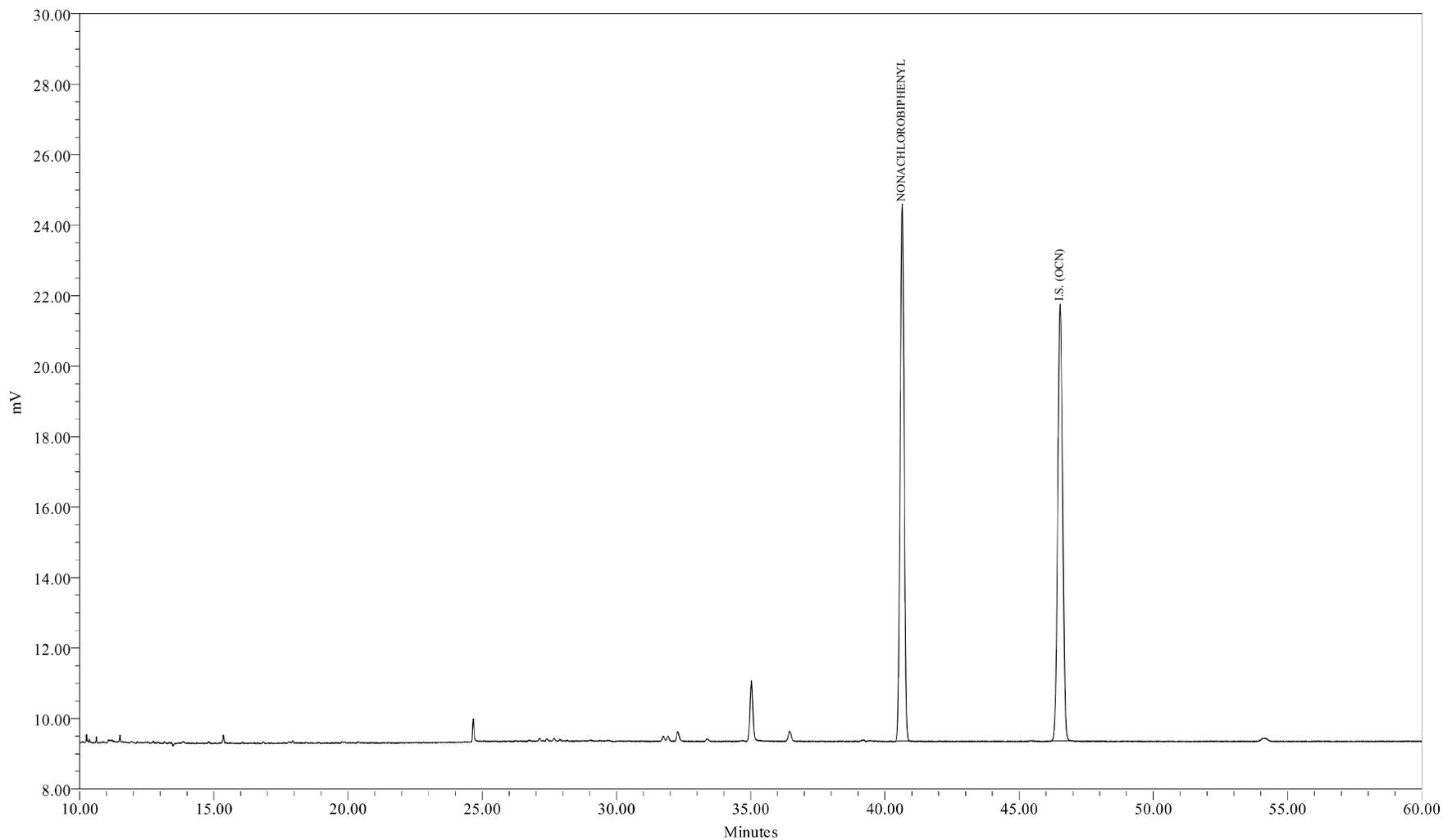


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Sample Name: SS0624A Sample Amount: 1  
Sample ID: Surr Std (207) 2.0 ng/mL Dilution: 1  
Date Acquired: 06/25/2009 04:43:20 EDT Extract Volume: 1  
Project Name: GC25\_Mar\_2009 Date Processed: 06/25/2009 21:28:25 EDT  
Sample Set Name: GC25\_CC\_062409 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_2\_062409 Current Date: 06/26/2009  
Run Time: 60.0 Minutes Current Time: 21:17:14 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC25-94-10

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.643	18267	2.000	2.000	1.020701
2	I.S. (OCN)	46.530	162682	18.180	18.180	8948.402020



Sample Name: SS0624B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 06/25/2009 05:48:49 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_20\_062409  
LIMS File ID: GC25-94-11

Sample Name: SS0624B

1 of 1



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Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: SS0624B Sample Amount: 1  
Sample ID: Surr Std (207) 20.0 ng/mL Dilution: 1  
Date Acquired: 06/25/2009 05:48:49 EDT Extract Volume: 1  
Project Name: GC25\_Mar\_2009 Date Processed: 06/25/2009 21:29:41 EDT  
Sample Set Name: GC25\_CC\_062409 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_20\_062409 Current Date: 06/26/2009  
Run Time: 60.0 Minutes Current Time: 21:17:18 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC25-94-11

**Peak Results**

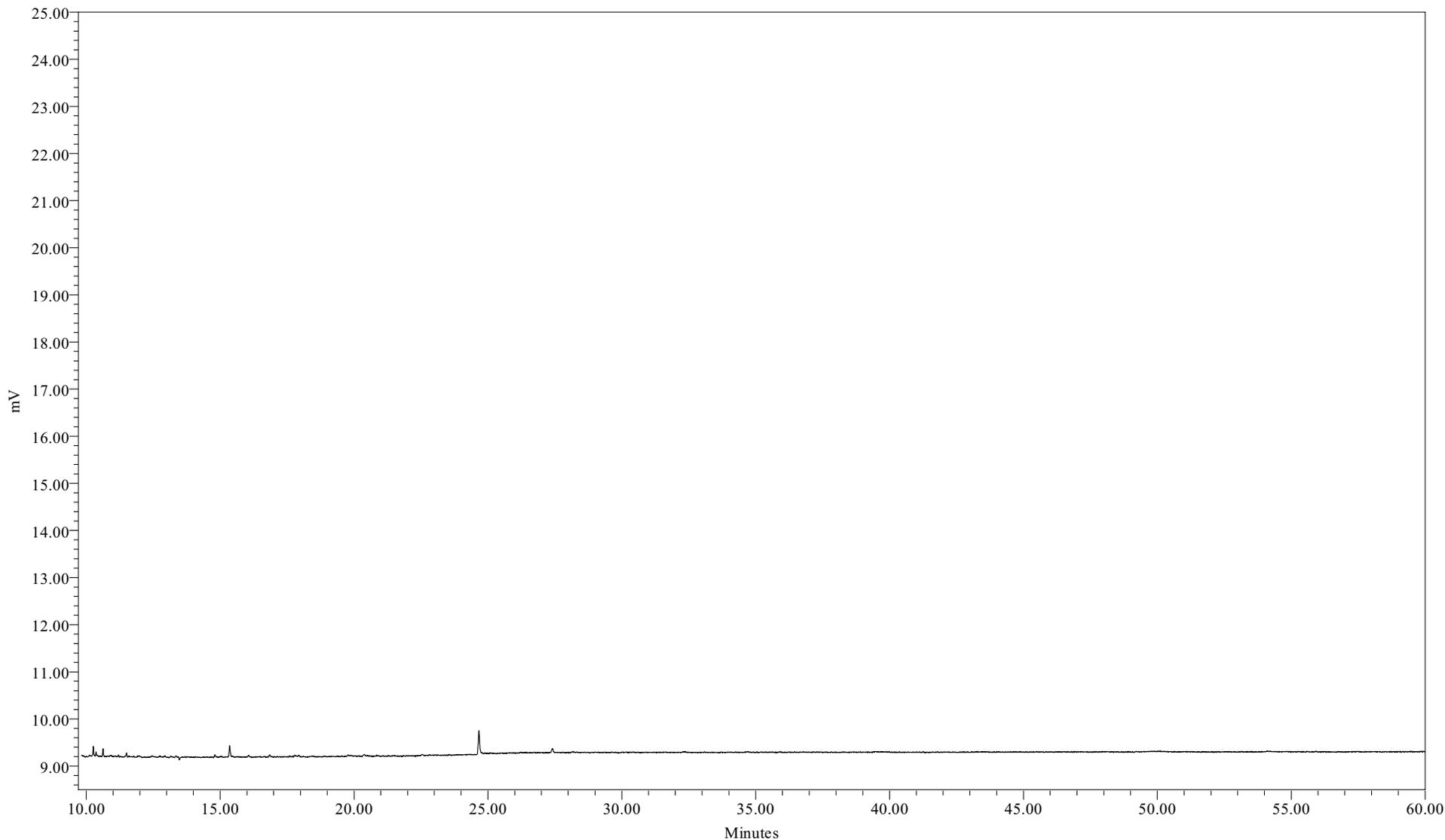
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.641	154495	20.000	20.000	0.887210
2	I.S. (OCN)	46.528	158289	18.180	18.180	8706.761439



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Sample Name: 090625B06  
Sample ID: HEXANE BLANK  
Date Acquired: 06/25/2009 23:12:45 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID:

**Northeast Analytical, Inc.**  
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: Northeast Analytical, Inc. SGD NO: 09070314  
ELAP ID No: 11078  
INSTRUMENT ID: GC25  
GC COLUMN: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

Continuing Calibration Standard CCCS0727A

Lab File ID:	<u>GC25-128-3</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>07/27/2009</u>	Calculated Amount:	<u>116 ng/ml</u>
Time:	<u>13:14:01</u>	OCN (I.S.) Peak Area:	<u>142435</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>87.9</u>

Continuing Calibration Standard CCCS0727B

Lab File ID:	<u>GC25-128-10</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>07/27/2009</u>	Calculated Amount:	<u>117 ng/ml</u>
Time:	<u>20:53:03</u>	OCN (I.S.) Peak Area:	<u>141116</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>87.1</u>

Continuing Calibration Standard CCCS0727C

Lab File ID:	<u>GC25-128-18</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>07/28/2009</u>	Calculated Amount:	<u>117 ng/ml</u>
Time:	<u>05:44:06</u>	OCN (I.S.) Peak Area:	<u>143531</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>88.5</u>

**Northeast Analytical, Inc.**  
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: Northeast Analytical, Inc. SGD NO: 09070314  
 ELAP ID No: 11078  
 INSTRUMENT ID: GC25  
 GC COLUMN: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

Continuing Calibration Standard CCCS0728A

Lab File ID:	<u>GC25-128-23</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>07/28/2009</u>	Calculated Amount:	<u>116 ng/ml</u>
Time:	<u>11:11:30</u>	OCN (I.S.) Peak Area:	<u>123532</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>76.2</u>

Continuing Calibration Standard CCCS0728B

Lab File ID:	<u>GC25-129-7</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>07/28/2009</u>	Calculated Amount:	<u>114 ng/ml</u>
Time:	<u>18:50:12</u>	OCN (I.S.) Peak Area:	<u>147776</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>91.2</u>

Continuing Calibration Standard CCCS0728C

Lab File ID:	<u>GC25-129-17</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>07/29/2009</u>	Calculated Amount:	<u>114 ng/ml</u>
Time:	<u>05:45:14</u>	OCN (I.S.) Peak Area:	<u>151575</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>93.5</u>



**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**122 ng/mL LOW LEVEL STANDARD**

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0727A File ID: GC25-128-3		Continuing Calibration CCCS0727B File ID: GC25-128-10		Continuing Calibration CCCS0727C File ID: GC25-128-18	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.25	-7.04	1.24	-8.34	1.23	-9.10
37 (104,44)	3.06	+/-15	3.05	-0.438	3.02	-1.30	3.01	-1.49
47 (70)	2.42	+/-15	2.24	-7.54	2.22	-8.14	2.22	-8.19
93 (174,181)	2.28	+/-15	2.09	-8.47	2.05	-10.3	2.07	-9.01
102 (180)	4.35	+/-15	3.93	-9.60	3.86	-11.3	3.91	-10.2
116 (205)	0.0788	+/-30	0.0695	-11.8	0.0736	-6.66	0.0679	-13.9
Total CCCS Conc.	122	+/-15	116	-4.52	117	-4.25	117	-4.21

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0727A	1362 uV	681 uV	335 uV
CCCS0727B	1328 uV	664 uV	332 uV
CCCS0727C	1356 uV	678 uV	329 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0727A	1458 uV	486 uV	87 uV
CCCS0727B	1471 uV	490.3 uV	69 uV
CCCS0727C	1493 uV	497.7 uV	73 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**122 ng/mL LOW LEVEL STANDARD**

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0728A File ID: GC25-128-23		Continuing Calibration CCCS0728B File ID: GC25-129-7		Continuing Calibration CCCS0728C File ID: GC25-129-17	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.23	-8.80	1.20	-11.0	1.20	-11.5
37 (104,44)	3.06	+/-15	3.01	-1.58	2.97	-3.04	2.99	-2.40
47 (70)	2.42	+/-15	2.22	-8.39	2.18	-9.77	2.18	-9.80
93 (174,181)	2.28	+/-15	2.07	-9.40	2.03	-10.7	2.02	-11.3
102 (180)	4.35	+/-15	3.84	-11.8	3.84	-11.8	3.83	-12.0
116 (205)	0.0788	+/-30	0.0844	7.08	0.0763	-3.12	0.0793	0.688
Total CCCS Conc.	122	+/-15	116	-5.12	114	-6.91	114	-6.69

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0728A	1168 uV	584 uV	283 uV
CCCS0728B	1348 uV	674 uV	333 uV
CCCS0728C	1444 uV	722 uV	351 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0728A	1276 uV	425.3 uV	62 uV
CCCS0728B	1528 uV	509.3 uV	67 uV
CCCS0728C	1552 uV	517.3 uV	64 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**

PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0728D File ID: GC25-129-19		Continuing Calibration CCCS0729A File ID: GC25-130-5		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.22	-9.28	1.19	-12.0		
37 (104,44)	3.06	+/-15	3.02	-1.45	2.95	-3.67		
47 (70)	2.42	+/-15	2.21	-8.82	2.16	-10.8		
93 (174,181)	2.28	+/-15	2.06	-9.55	2.01	-11.7		
102 (180)	4.35	+/-15	3.89	-10.6	3.80	-12.6		
116 (205)	0.0788	+/-30	0.0756	-4.10	0.0773	-1.93		
Total CCCS Conc.	122	+/-15	116	-5.20	113	-7.75		

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0728D	1508 uV	754 uV	381 uV
CCCS0729A	1328 uV	664 uV	326 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0728D	1664 uV	554.7 uV	80 uV
CCCS0729A	1478 uV	492.7 uV	64 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0727A	CCCS0727A File ID: GC25-128-3		CCCS0727B File ID: GC25-128-10		CCCS0727C File ID: GC25-128-18	
			Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
1	2 (1)	+/-0.07	11.76		11.76		11.76	
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.89		12.89		12.89	
4	5 (4,10)	+/-0.07	13.50		13.50		13.50	
5	6 (7,9)	+/-0.07	14.36		14.36		14.36	
6	7 (6)	+/-0.07	14.67		14.67		14.67	
7	8 (5,8)	+/-0.07	14.86		14.86		14.86	
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.50		15.50		15.50	
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.23		16.23		16.23	
13	14 (15,18)	+/-0.07	16.36		16.36		16.36	
14	15 (17)	+/-0.07	16.45		16.45		16.45	
15	16 (24,27)	+/-0.07	16.74		16.75		16.74	
16	17 (16,32)	+/-0.07	17.00		17.00		17.00	
17	19 (23,34,54)	+/-0.07	17.46		17.46		17.46	
18	20 (29)	+/-0.07	17.64		17.64		17.63	
19	21 (26)	+/-0.07	17.76		17.76		17.76	
20	22 (25)	+/-0.07	17.84		17.84		17.84	
21	23 (31)	+/-0.07	18.04		18.04		18.04	
22	24 (28,50)	+/-0.07	18.09		18.09		18.09	
23	25 (20,21,33,53)	+/-0.07	18.45		18.45		18.45	
24	26 (22,51)	+/-0.07	18.68		18.68		18.68	
25	27 (45)	+/-0.07	18.91		18.91		18.91	
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.19		19.18		19.18	
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.48		19.48		19.48	
30	32 (43,49)	+/-0.07	19.65		19.64		19.64	
31	33 (38,47)	+/-0.07	19.76		19.76		19.76	
32	34 (48,75)	+/-0.07	19.82		19.82		19.82	
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.04		20.05		20.04	
35	37 (104,44)	+/-0.07	20.22		20.22		20.22	
36	38 (37,42,59)	+/-0.07	20.35		20.34		20.35	
37	39 (41,64,71,72)	+/-0.07	20.69		20.69		20.69	
38	41 (68,96)	+/-0.07	20.86		20.86		20.85	
39	42 (40)	+/-0.07	20.96		20.96		20.96	
40	43 (57,103)	+/-0.07	21.20		21.20		21.21	
41	44 (58,67,100)	+/-0.07	21.38		21.38		21.37	
42	45 (63)	+/-0.07	21.53		21.54		21.53	
43	46 (74,94,61)	+/-0.07	21.70		21.71		21.70	
44	47 (70)	+/-0.07	21.84		21.84		21.84	
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.95		21.95		21.95	
46	49 (55,91,121)	+/-0.07	22.26		22.26		22.25	
47	50 (56,60)	+/-0.07	22.56		22.56		22.56	
48	51 (84,92,155)	+/-0.07	22.80		22.80		22.80	
49	52 (89)	+/-0.07	22.91		22.90		22.90	
50	53 (90,101)	+/-0.07	23.06		23.06		23.06	
51	54 (79,99,113)	+/-0.07	23.25		23.25		23.25	
52	55 (119,150)	+/-0.07	23.52		23.52		23.51	
53	56 (78,83,112,108)	+/-0.07	23.63		23.62		23.63	
54	57 (97,152,86)	+/-0.07	23.84		23.84		23.84	
55	58 (81,87,117,125,115,145)	+/-0.07	24.01		24.01		24.01	
56	59 (116,85,111)	+/-0.07	24.16		24.16		24.16	

Nea Lims Version : 4.4.4.5

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0727A	CCCS0727A File ID: GC25-128-3		CCCS0727B File ID: GC25-128-10		CCCS0727C File ID: GC25-128-18	
			Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
57	60 (120,136)	+/-0.07	24.29		24.29		24.29	
58	61 (77,110,148)	+/-0.07	24.42		24.42		24.41	
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.79		24.78		24.78	
61	64 (151)	+/-0.07	25.08		25.08		25.08	
62	65 (124,135)	+/-0.07	25.22		25.21		25.21	
63	66 (144)	+/-0.07	25.28		25.27		25.27	
64	67 (107,109,147)	+/-0.07	25.34		25.34		25.33	
65	68 (123)	+/-0.07	25.43		25.42		25.43	
66	69 (106,118,139,149)	+/-0.07	25.53		25.53		25.53	
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.93		25.93		25.93	
69	72 (122,131,133,142)	+/-0.07	26.15		26.14		26.13	
70	73 (146,165,188)	+/-0.07	26.42		26.42		26.42	
71	74 (105,132,161)	+/-0.07	26.55		26.54		26.55	
72	75 (153)	+/-0.07	26.70		26.70		26.70	
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.24		27.24		27.24	
75	78 (179)	+/-0.07	27.31		27.31		27.30	
76	79 (137)	+/-0.07	27.53		27.51		27.50	
77	80 (130,176)	+/-0.07	27.67		27.67		27.66	
78	82 (138,163,164)	+/-0.07	27.89		27.89		27.89	
79	83 (158,160,186)	+/-0.07	28.08		28.07		28.07	
80	84 (126,129)	+/-0.07	28.28		28.27		28.29	
81	85 (166,178)	+/-0.07	28.62		28.62		28.62	
82	87 (175,159)	+/-0.07	28.93		28.92		28.93	
83	88 (182,187)	+/-0.07	29.07		29.07		29.07	
84	89 (128,162)	+/-0.07	29.20		29.19		29.20	
85	90 (183)	+/-0.07	29.38		29.38		29.38	
86	91 (167)	+/-0.07	29.64		29.63		29.65	
87	92 (185)	+/-0.07	29.99		29.98		29.99	
88	93 (174,181)	+/-0.07	30.36		30.36		30.36	
89	94 (177)	+/-0.07	30.63		30.62		30.63	
90	95 (156,171)	+/-0.07	30.93		30.93		30.93	
91	96 (157,202)	+/-0.07	31.19		31.19		31.19	
92	98 (173)	+/-0.07	31.36		31.37		31.36	
93	99 (201)	+/-0.07	31.74		31.73		31.74	
94	100 (172,204)	+/-0.07	31.98		31.98		31.98	
95	101 (192,197)	+/-0.07	32.27		32.26		32.28	
96	102 (180)	+/-0.07	32.46		32.46		32.46	
97	103 (193)	+/-0.07	32.71		32.70		32.70	
98	104 (191)	+/-0.07	33.03		33.02		33.03	
99	105 (200,169)	+/-0.07	33.37		33.37		33.37	
100	106 (170)	+/-0.07	34.53		34.52		34.52	
101	107 (190)	+/-0.07	34.80		34.79		34.79	
102	108 (198)	+/-0.07	35.69		35.64		35.65	
103	109 (199)	+/-0.07	35.90		35.90		35.90	
104	110 (196,203)	+/-0.07	36.44		36.44		36.44	
105	111 (189)	+/-0.07	37.62		37.62		37.60	
106	112 (195)	+/-0.07	39.16		39.16		39.16	
107	113 (208)	+/-0.07	39.68		39.69		39.69	
108	114 (207)	+/-0.07	40.62		40.64		40.65	
109	115 (194)	+/-0.07	42.05		42.05		42.05	
110	116 (205)	+/-0.07	42.93		42.96		42.95	
111	117 (206)	+/-0.07	48.09		48.08		48.08	
112	118 (209)	+/-0.07	54.12		54.13		54.17	

Nea Lims Version : 4.4.4.5

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0727A	CCCS0728A File ID: GC25-128-23					
			Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
1	2 (1)	+/-0.07	11.76					
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.89					
4	5 (4,10)	+/-0.07	13.50					
5	6 (7,9)	+/-0.07	14.36					
6	7 (6)	+/-0.07	14.67					
7	8 (5,8)	+/-0.07	14.86					
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.50					
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.23					
13	14 (15,18)	+/-0.07	16.36					
14	15 (17)	+/-0.07	16.45					
15	16 (24,27)	+/-0.07	16.75					
16	17 (16,32)	+/-0.07	17.00					
17	19 (23,34,54)	+/-0.07	17.46					
18	20 (29)	+/-0.07	17.64					
19	21 (26)	+/-0.07	17.76					
20	22 (25)	+/-0.07	17.84					
21	23 (31)	+/-0.07	18.04					
22	24 (28,50)	+/-0.07	18.09					
23	25 (20,21,33,53)	+/-0.07	18.45					
24	26 (22,51)	+/-0.07	18.68					
25	27 (45)	+/-0.07	18.91					
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.18					
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.48					
30	32 (43,49)	+/-0.07	19.64					
31	33 (38,47)	+/-0.07	19.76					
32	34 (48,75)	+/-0.07	19.82					
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.03					
35	37 (104,44)	+/-0.07	20.21					
36	38 (37,42,59)	+/-0.07	20.35					
37	39 (41,64,71,72)	+/-0.07	20.69					
38	41 (68,96)	+/-0.07	20.85					
39	42 (40)	+/-0.07	20.96					
40	43 (57,103)	+/-0.07	21.20					
41	44 (58,67,100)	+/-0.07	21.38					
42	45 (63)	+/-0.07	21.54					
43	46 (74,94,61)	+/-0.07	21.70					
44	47 (70)	+/-0.07	21.84					
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.95					
46	49 (55,91,121)	+/-0.07	22.25					
47	50 (56,60)	+/-0.07	22.56					
48	51 (84,92,155)	+/-0.07	22.80					
49	52 (89)	+/-0.07	22.90					
50	53 (90,101)	+/-0.07	23.06					
51	54 (79,99,113)	+/-0.07	23.25					
52	55 (119,150)	+/-0.07	23.53					
53	56 (78,83,112,108)	+/-0.07	23.63					
54	57 (97,152,86)	+/-0.07	23.84					
55	58 (81,87,117,125,115,145)	+/-0.07	24.01					
56	59 (116,85,111)	+/-0.07	24.16					

Nea Lims Version : 4.4.4.5

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0727A	CCCS0728A File ID: GC25-128-23					
			Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
57	60 (120,136)	+/-0.07	24.29					
58	61 (77,110,148)	+/-0.07	24.42					
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.79					
61	64 (151)	+/-0.07	25.08					
62	65 (124,135)	+/-0.07	25.22					
63	66 (144)	+/-0.07	25.27					
64	67 (107,109,147)	+/-0.07	25.34					
65	68 (123)	+/-0.07	25.46					
66	69 (106,118,139,149)	+/-0.07	25.53					
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.93					
69	72 (122,131,133,142)	+/-0.07	26.13					
70	73 (146,165,188)	+/-0.07	26.42					
71	74 (105,132,161)	+/-0.07	26.55					
72	75 (153)	+/-0.07	26.70					
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.24					
75	78 (179)	+/-0.07	27.31					
76	79 (137)	+/-0.07	27.52					
77	80 (130,176)	+/-0.07	27.67					
78	82 (138,163,164)	+/-0.07	27.89					
79	83 (158,160,186)	+/-0.07	28.07					
80	84 (126,129)	+/-0.07	28.29					
81	85 (166,178)	+/-0.07	28.62					
82	87 (175,159)	+/-0.07	28.93					
83	88 (182,187)	+/-0.07	29.07					
84	89 (128,162)	+/-0.07	29.19					
85	90 (183)	+/-0.07	29.38					
86	91 (167)	+/-0.07	29.64					
87	92 (185)	+/-0.07	29.98					
88	93 (174,181)	+/-0.07	30.36					
89	94 (177)	+/-0.07	30.63					
90	95 (156,171)	+/-0.07	30.93					
91	96 (157,202)	+/-0.07	31.20					
92	98 (173)	+/-0.07	31.37					
93	99 (201)	+/-0.07	31.74					
94	100 (172,204)	+/-0.07	31.99					
95	101 (192,197)	+/-0.07	32.27					
96	102 (180)	+/-0.07	32.46					
97	103 (193)	+/-0.07	32.71					
98	104 (191)	+/-0.07	33.02					
99	105 (200,169)	+/-0.07	33.37					
100	106 (170)	+/-0.07	34.52					
101	107 (190)	+/-0.07	34.79					
102	108 (198)	+/-0.07	35.67					
103	109 (199)	+/-0.07	35.90					
104	110 (196,203)	+/-0.07	36.43					
105	111 (189)	+/-0.07	37.60					
106	112 (195)	+/-0.07	39.17					
107	113 (208)	+/-0.07	39.68					
108	114 (207)	+/-0.07	40.63					
109	115 (194)	+/-0.07	42.04					
110	116 (205)	+/-0.07	42.96					
111	117 (206)	+/-0.07	48.09					
112	118 (209)	+/-0.07	54.13					

Nea Lims Version : 4.4.4.5

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0727A	CCCS0728B File ID: GC25-129-7		CCCS0728C File ID: GC25-129-17		CCCS0728D File ID: GC25-129-19	
			Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
1	2 (1)	+/-0.07	11.76		11.76		11.76	
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.89		12.89		12.89	
4	5 (4,10)	+/-0.07	13.50		13.50		13.50	
5	6 (7,9)	+/-0.07	14.36		14.36		14.36	
6	7 (6)	+/-0.07	14.67		14.67		14.67	
7	8 (5,8)	+/-0.07	14.86		14.86		14.86	
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.50		15.50		15.50	
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.23		16.23		16.23	
13	14 (15,18)	+/-0.07	16.36		16.36		16.36	
14	15 (17)	+/-0.07	16.45		16.45		16.45	
15	16 (24,27)	+/-0.07	16.75		16.75		16.75	
16	17 (16,32)	+/-0.07	17.00		17.00		17.00	
17	19 (23,34,54)	+/-0.07	17.46		17.46		17.46	
18	20 (29)	+/-0.07	17.63		17.63		17.63	
19	21 (26)	+/-0.07	17.76		17.76		17.76	
20	22 (25)	+/-0.07	17.84		17.84		17.84	
21	23 (31)	+/-0.07	18.04		18.04		18.04	
22	24 (28,50)	+/-0.07	18.09		18.09		18.09	
23	25 (20,21,33,53)	+/-0.07	18.45		18.45		18.45	
24	26 (22,51)	+/-0.07	18.68		18.68		18.68	
25	27 (45)	+/-0.07	18.91		18.90		18.91	
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.18		19.18		19.18	
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.48		19.48		19.48	
30	32 (43,49)	+/-0.07	19.64		19.64		19.65	
31	33 (38,47)	+/-0.07	19.76		19.76		19.76	
32	34 (48,75)	+/-0.07	19.82		19.82		19.82	
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.04		20.04		20.04	
35	37 (104,44)	+/-0.07	20.22		20.21		20.21	
36	38 (37,42,59)	+/-0.07	20.34		20.34		20.35	
37	39 (41,64,71,72)	+/-0.07	20.69		20.69		20.69	
38	41 (68,96)	+/-0.07	20.86		20.86		20.86	
39	42 (40)	+/-0.07	20.96		20.95		20.96	
40	43 (57,103)	+/-0.07	21.20		21.21		21.20	
41	44 (58,67,100)	+/-0.07	21.37		21.38		21.37	
42	45 (63)	+/-0.07	21.53		21.53		21.53	
43	46 (74,94,61)	+/-0.07	21.70		21.70		21.70	
44	47 (70)	+/-0.07	21.84		21.84		21.84	
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.95		21.95		21.95	
46	49 (55,91,121)	+/-0.07	22.25		22.26		22.26	
47	50 (56,60)	+/-0.07	22.56		22.56		22.56	
48	51 (84,92,155)	+/-0.07	22.80		22.80		22.80	
49	52 (89)	+/-0.07	22.91		22.91		22.91	
50	53 (90,101)	+/-0.07	23.05		23.06		23.05	
51	54 (79,99,113)	+/-0.07	23.25		23.25		23.25	
52	55 (119,150)	+/-0.07	23.53		23.52		23.52	
53	56 (78,83,112,108)	+/-0.07	23.62		23.62		23.62	
54	57 (97,152,86)	+/-0.07	23.84		23.84		23.84	
55	58 (81,87,117,125,115,145)	+/-0.07	24.01		24.01		24.01	
56	59 (116,85,111)	+/-0.07	24.16		24.16		24.16	

Nea Lims Version : 4.4.4.5

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0727A	CCCS0728B File ID: GC25-129-7		CCCS0728C File ID: GC25-129-17		CCCS0728D File ID: GC25-129-19	
			Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
57	60 (120,136)	+/-0.07	24.28		24.29		24.29	
58	61 (77,110,148)	+/-0.07	24.41		24.41		24.41	
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.78		24.78		24.78	
61	64 (151)	+/-0.07	25.08		25.08		25.08	
62	65 (124,135)	+/-0.07	25.22		25.22		25.22	
63	66 (144)	+/-0.07	25.28		25.27		25.27	
64	67 (107,109,147)	+/-0.07	25.33		25.33		25.34	
65	68 (123)	+/-0.07	25.42		25.44		25.43	
66	69 (106,118,139,149)	+/-0.07	25.53		25.53		25.53	
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.93		25.93		25.93	
69	72 (122,131,133,142)	+/-0.07	26.13		26.13		26.14	
70	73 (146,165,188)	+/-0.07	26.42		26.42		26.42	
71	74 (105,132,161)	+/-0.07	26.55		26.54		26.55	
72	75 (153)	+/-0.07	26.70		26.70		26.70	
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.23		27.24		27.24	
75	78 (179)	+/-0.07	27.30		27.30		27.30	
76	79 (137)	+/-0.07	27.52		27.52		27.50	
77	80 (130,176)	+/-0.07	27.67		27.66		27.67	
78	82 (138,163,164)	+/-0.07	27.89		27.89		27.89	
79	83 (158,160,186)	+/-0.07	28.07		28.07		28.07	
80	84 (126,129)	+/-0.07	28.28		28.28		28.27	
81	85 (166,178)	+/-0.07	28.62		28.62		28.62	
82	87 (175,159)	+/-0.07	28.93		28.92		28.93	
83	88 (182,187)	+/-0.07	29.07		29.07		29.07	
84	89 (128,162)	+/-0.07	29.20		29.18		29.20	
85	90 (183)	+/-0.07	29.38		29.38		29.38	
86	91 (167)	+/-0.07	29.65		29.63		29.64	
87	92 (185)	+/-0.07	29.98		29.98		29.98	
88	93 (174,181)	+/-0.07	30.36		30.36		30.36	
89	94 (177)	+/-0.07	30.63		30.63		30.63	
90	95 (156,171)	+/-0.07	30.93		30.93		30.93	
91	96 (157,202)	+/-0.07	31.19		31.19		31.19	
92	98 (173)	+/-0.07	31.35		31.38		31.36	
93	99 (201)	+/-0.07	31.73		31.74		31.73	
94	100 (172,204)	+/-0.07	31.98		31.98		31.98	
95	101 (192,197)	+/-0.07	32.29		32.27		32.28	
96	102 (180)	+/-0.07	32.46		32.46		32.46	
97	103 (193)	+/-0.07	32.71		32.71		32.70	
98	104 (191)	+/-0.07	33.01		33.00		33.02	
99	105 (200,169)	+/-0.07	33.37		33.37		33.37	
100	106 (170)	+/-0.07	34.52		34.52		34.52	
101	107 (190)	+/-0.07	34.79		34.79		34.79	
102	108 (198)	+/-0.07	35.67		35.67		35.66	
103	109 (199)	+/-0.07	35.89		35.90		35.90	
104	110 (196,203)	+/-0.07	36.44		36.44		36.44	
105	111 (189)	+/-0.07	37.60		37.61		37.63	
106	112 (195)	+/-0.07	39.17		39.16		39.17	
107	113 (208)	+/-0.07	39.68		39.70		39.68	
108	114 (207)	+/-0.07	40.61		40.63		40.63	
109	115 (194)	+/-0.07	42.04		42.03		42.05	
110	116 (205)	+/-0.07	42.96		42.93		42.94	
111	117 (206)	+/-0.07	48.08		48.09		48.09	
112	118 (209)	+/-0.07	54.13		54.16		54.12	

Nea Lims Version : 4.4.4.5

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0727A	CCCS0729A File ID: GC25-130-5					
			Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
1	2 (1)	+/-0.07	11.76					
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.89					
4	5 (4,10)	+/-0.07	13.50					
5	6 (7,9)	+/-0.07	14.36					
6	7 (6)	+/-0.07	14.67					
7	8 (5,8)	+/-0.07	14.86					
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.50					
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.23					
13	14 (15,18)	+/-0.07	16.36					
14	15 (17)	+/-0.07	16.45					
15	16 (24,27)	+/-0.07	16.74					
16	17 (16,32)	+/-0.07	17.00					
17	19 (23,34,54)	+/-0.07	17.48					
18	20 (29)	+/-0.07	17.63					
19	21 (26)	+/-0.07	17.76					
20	22 (25)	+/-0.07	17.84					
21	23 (31)	+/-0.07	18.04					
22	24 (28,50)	+/-0.07	18.09					
23	25 (20,21,33,53)	+/-0.07	18.45					
24	26 (22,51)	+/-0.07	18.68					
25	27 (45)	+/-0.07	18.91					
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.18					
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.48					
30	32 (43,49)	+/-0.07	19.64					
31	33 (38,47)	+/-0.07	19.76					
32	34 (48,75)	+/-0.07	19.82					
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.04					
35	37 (104,44)	+/-0.07	20.21					
36	38 (37,42,59)	+/-0.07	20.34					
37	39 (41,64,71,72)	+/-0.07	20.69					
38	41 (68,96)	+/-0.07	20.86					
39	42 (40)	+/-0.07	20.96					
40	43 (57,103)	+/-0.07	21.19					
41	44 (58,67,100)	+/-0.07	21.38					
42	45 (63)	+/-0.07	21.53					
43	46 (74,94,61)	+/-0.07	21.70					
44	47 (70)	+/-0.07	21.84					
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.95					
46	49 (55,91,121)	+/-0.07	22.26					
47	50 (56,60)	+/-0.07	22.56					
48	51 (84,92,155)	+/-0.07	22.80					
49	52 (89)	+/-0.07	22.90					
50	53 (90,101)	+/-0.07	23.05					
51	54 (79,99,113)	+/-0.07	23.25					
52	55 (119,150)	+/-0.07	23.53					
53	56 (78,83,112,108)	+/-0.07	23.63					
54	57 (97,152,86)	+/-0.07	23.83					
55	58 (81,87,117,125,115,145)	+/-0.07	24.01					
56	59 (116,85,111)	+/-0.07	24.16					

Nea Lims Version : 4.4.4.5

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0727A	CCCS0729A File ID: GC25-130-5					
			Retention Time	Flag	Retention Time	Flag	Retention Time	Flag
57	60 (120,136)	+/-0.07	24.29					
58	61 (77,110,148)	+/-0.07	24.42					
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.78					
61	64 (151)	+/-0.07	25.08					
62	65 (124,135)	+/-0.07	25.22					
63	66 (144)	+/-0.07	25.28					
64	67 (107,109,147)	+/-0.07	25.34					
65	68 (123)	+/-0.07	25.43					
66	69 (106,118,139,149)	+/-0.07	25.52					
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.92					
69	72 (122,131,133,142)	+/-0.07	26.12					
70	73 (146,165,188)	+/-0.07	26.42					
71	74 (105,132,161)	+/-0.07	26.55					
72	75 (153)	+/-0.07	26.70					
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.24					
75	78 (179)	+/-0.07	27.30					
76	79 (137)	+/-0.07	27.56					
77	80 (130,176)	+/-0.07	27.67					
78	82 (138,163,164)	+/-0.07	27.89					
79	83 (158,160,186)	+/-0.07	28.07					
80	84 (126,129)	+/-0.07	28.28					
81	85 (166,178)	+/-0.07	28.62					
82	87 (175,159)	+/-0.07	28.93					
83	88 (182,187)	+/-0.07	29.07					
84	89 (128,162)	+/-0.07	29.20					
85	90 (183)	+/-0.07	29.38					
86	91 (167)	+/-0.07	29.65					
87	92 (185)	+/-0.07	29.99					
88	93 (174,181)	+/-0.07	30.36					
89	94 (177)	+/-0.07	30.63					
90	95 (156,171)	+/-0.07	30.93					
91	96 (157,202)	+/-0.07	31.20					
92	98 (173)	+/-0.07	31.35					
93	99 (201)	+/-0.07	31.74					
94	100 (172,204)	+/-0.07	31.98					
95	101 (192,197)	+/-0.07	32.27					
96	102 (180)	+/-0.07	32.46					
97	103 (193)	+/-0.07	32.70					
98	104 (191)	+/-0.07	33.02					
99	105 (200,169)	+/-0.07	33.37					
100	106 (170)	+/-0.07	34.52					
101	107 (190)	+/-0.07	34.80					
102	108 (198)	+/-0.07	35.66					
103	109 (199)	+/-0.07	35.90					
104	110 (196,203)	+/-0.07	36.44					
105	111 (189)	+/-0.07	37.63					
106	112 (195)	+/-0.07	39.17					
107	113 (208)	+/-0.07	39.67					
108	114 (207)	+/-0.07	40.64					
109	115 (194)	+/-0.07	42.04					
110	116 (205)	+/-0.07	42.95					
111	117 (206)	+/-0.07	48.08					
112	118 (209)	+/-0.07	54.12					

Nea Lims Version : 4.4.4.5

# Calibration Component Summary Table

## Component Summary for RF



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, New York 12308

Phone:(518) 346-4592 Fax:(518) 381-6055

www.nealab.com

Project Name:	GC25_Mar_2009	Current Time:	15:17:03
Sample Set Name:	GC25_062509b	Current Date:	08/06/2009
Processing Method:	CSGB_LL1X_062409	Calibration ID:	16276
Run Time:	60 Minutes	Calibration Date(s):	06/24/2009,06/25/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999850	Y = 2.46e-002 X + 1.42e-003	0.00142127651630369	0.0245629200743928
2	3 (2)	1.000000	Y = 2.91e-003 X	0	0.00291450038017324
3	4 (3)	0.999297	Y = 1.24e-002 X + 5.23e-004	0.000522693596447105	0.0124394154597883
4	5 (4,10)	0.999927	Y = 5.48e-002 X - 2.69e-004	-0.00026882367570979	0.054796265784118
5	6 (7,9)	0.999800	Y = 4.17e-001 X + 2.51e-003	0.00251277196358485	0.417039353989336
6	7 (6)	0.999812	Y = 2.00e-001 X + 1.78e-003	0.00178263342053103	0.200326454851162
7	8 (5,8)	0.999536	Y = 1.10e-001 X + 1.26e-002	0.0126156147379175	0.109918242204986
8	9 (14)	1.000000	Y = 1.58e-001 X	0	0.15824284229897
9	10 (19)	0.999645	Y = 3.11e-001 X + 3.82e-004	0.000381692840293935	0.310619957620703
10	11 (30)	1.000000	Y = 6.19e-001 X	0	0.619094269645438
11	12 (11)	1.000000	Y = 5.82e-002 X	0	0.0581674340248464
12	13 (12,13)	0.998040	Y = 3.12e-001 X + 3.98e-004	0.000398200311236899	0.311919408957262
13	14 (15,18)	0.999775	Y = 3.49e-001 X + 6.62e-003	0.00661896006076823	0.348829867994638
14	15 (17)	0.999513	Y = 1.63e-001 X + 2.55e-003	0.00254872346461332	0.162710741227033
15	16 (24,27)	0.999913	Y = 5.08e-001 X - 6.06e-005	-6.05540073860544E-5	0.508336362249774
16	17 (16,32)	0.999945	Y = 2.93e-001 X + 8.01e-003	0.00801060649947427	0.293224283760851
17	19 (23,34,54)	1.000000	Y = 3.75e-001 X	0	0.374891187453696
18	20 (29)	0.999857	Y = 5.81e-001 X - 3.37e-005	-3.37271993630338E-5	0.58080475918469
19	21 (26)	0.999451	Y = 3.93e-001 X - 3.56e-004	-0.00035609868901986	0.393429335891888
20	22 (25)	0.998805	Y = 5.30e-001 X + 3.33e-004	0.000333405297560901	0.530264059893369
21	23 (31)	0.999518	Y = 4.91e-001 X + 6.88e-003	0.00688047563389227	0.491028758873875
22	24 (28,50)	0.999008	Y = 5.30e-001 X + 2.18e-002	0.0217830007644824	0.530283432821789
23	25 (20,21,33,53)	0.999595	Y = 4.15e-001 X + 8.03e-003	0.00802953821019003	0.415121172490287
24	26 (22,51)	0.999875	Y = 3.99e-001 X + 5.47e-004	0.000547102426316837	0.398848652474839
25	27 (45)	0.999491	Y = 4.27e-001 X + 1.39e-003	0.00138668999105057	0.42725759241176
26	28 (36)	1.000000	Y = 2.87e-001 X	0	0.287184706669842
27	29 (46)	0.999701	Y = 3.81e-001 X - 5.54e-004	-0.00055422072748473	0.381027497547146
28	30 (39)	1.000000	Y = 2.80e-001 X	0	0.280015550333182
29	31 (52,69,73)	0.999557	Y = 3.25e-001 X + 1.01e-002	0.0101477799673504	0.32452325021228
30	32 (43,49)	0.999732	Y = 6.49e-001 X + 1.01e-002	0.0101233749834198	0.64882572269758
31	33 (38,47)	0.999782	Y = 9.14e-001 X + 9.66e-003	0.00966287239012131	0.913514255758483
32	34 (48,75)	0.999596	Y = 6.37e-001 X + 5.11e-003	0.0051099141219193	0.636641680679019
33	35 (62,65)	1.000000	Y = 7.47e-001 X	0	0.747413856396511
34	36 (35)	1.000000	Y = 2.70e-001 X	0	0.269517261839973
35	37 (104,44)	0.999379	Y = 5.00e-001 X + 9.53e-003	0.00952896554592719	0.500259884520118
36	38 (37,42,59)	0.999928	Y = 4.13e-001 X + 1.30e-002	0.0130439174746102	0.413409443636944
37	39 (41,64,71,72)	0.999326	Y = 6.53e-001 X + 2.01e-002	0.0201244431085263	0.652938900328134
38	41 (68,96)	1.000000	Y = 3.96e-001 X	0	0.396448426405903



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Project Name:	GC25_Mar_2009	Current Time:	15:17:03
Sample Set Name:	GC25_062509b	Current Date:	08/06/2009
Processing Method:	CSGB_LL1X_062409	Calibration ID:	16276
Run Time:	60 Minutes	Calibration Date(s):	06/24/2009,06/25/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999868	Y = 5.27e-001 X + 6.53e-005	6.5284735148885E-5	0.527448946944529
40	43 (57,103)	1.000000	Y = 5.56e-001 X	0	0.555890995534006
41	44 (58,67,100)	0.999507	Y = 7.66e-001 X - 2.61e-004	-0.00026066036890740	0.76590633261912
42	45 (63)	0.999627	Y = 7.38e-001 X + 3.21e-004	0.000321107004418952	0.738290262618284
43	46 (74,94,61)	0.999695	Y = 9.67e-001 X + 1.04e-002	0.0104391331795619	0.967204756687265
44	47 (70)	0.999367	Y = 7.66e-001 X + 2.08e-002	0.0208000447039343	0.766383042185259
45	48 (66,76,98,80,93,95,102,88)	0.999436	Y = 5.10e-001 X + 2.71e-002	0.0271296156957974	0.509983587231953
46	49 (55,91,121)	0.999854	Y = 5.65e-001 X + 3.78e-004	0.000378240074615566	0.564988888946526
47	50 (56,60)	0.999678	Y = 7.79e-001 X + 1.98e-002	0.0198035469417692	0.779496276365326
48	51 (84,92,155)	0.999742	Y = 2.83e-001 X + 1.67e-003	0.00166866273052796	0.282725674788524
49	52 (89)	0.999901	Y = 5.64e-001 X + 5.43e-007	5.42675971521023E-7	0.563548775654185
50	53 (90,101)	0.999740	Y = 6.34e-001 X + 3.41e-003	0.00341128540871538	0.634348772383193
51	54 (79,99,113)	0.999893	Y = 9.79e-001 X - 8.01e-004	-0.00080079726618742	0.978791030700638
52	55 (119,150)	0.999391	Y = 1.53e+000 X - 3.53e-005	-3.52591829311938E-5	1.5298049284824
53	56 (78,83,112,108)	0.999986	Y = 5.59e-001 X - 2.67e-004	-0.00026668139712786	0.55943340301548
54	57 (97,152,86)	0.999571	Y = 8.22e-001 X + 2.67e-003	0.00267376382843343	0.82204306840939
55	58 (81,87,117,125,115,145)	0.999936	Y = 7.16e-001 X + 7.22e-003	0.00722174280536336	0.715817976535241
56	59 (116,85,111)	0.999939	Y = 8.57e-001 X + 4.47e-003	0.0044655497501882	0.857132749634734
57	60 (120,136)	0.999726	Y = 6.84e-001 X + 6.14e-003	0.00614082882107103	0.684475234359116
58	61 (77,110,148)	0.999835	Y = 6.33e-001 X + 1.13e-002	0.0113328306201073	0.63275891693705
59	62 (154)	1.000000	Y = 6.72e-001 X	0	0.672266728158599
60	63 (82)	0.998688	Y = 8.06e-001 X - 1.07e-005	-1.07250967608663E-5	0.805994039718228
61	64 (151)	0.999821	Y = 6.96e-001 X + 9.35e-003	0.00935403844432647	0.695561859730393
62	65 (124,135)	0.998871	Y = 1.17e+000 X - 8.30e-006	-8.30063218060229E-6	1.1685338940293
63	66 (144)	0.999180	Y = 4.42e-001 X - 3.10e-004	-0.00031039024225115	0.441722289039003
64	67 (107,109,147)	0.999059	Y = 7.03e-001 X + 3.19e-004	0.000318816072619021	0.703290682310404
65	68 (123)	1.000000	Y = 7.30e-001 X	0	0.729764305420852
66	69 (106,118,139,149)	0.999051	Y = 7.58e-001 X + 2.69e-002	0.0269418291311125	0.757606109061939
67	70 (140)	1.000000	Y = 7.41e-001 X	0	0.740593883461445
68	71 (114,134,143)	0.999007	Y = 8.36e-001 X - 1.16e-003	-0.00115663208015854	0.836415321486995
69	72 (122,131,133,142)	0.998889	Y = 1.56e+000 X - 9.63e-004	-0.00096327146898829	1.56380844623574
70	73 (146,165,188)	0.998480	Y = 8.52e-001 X + 3.48e-003	0.0034778965846417	0.851734387852164
71	74 (105,132,161)	0.999873	Y = 1.04e+000 X + 2.60e-003	0.00259544378675414	1.04351121956617
72	75 (153)	0.999168	Y = 9.23e-001 X + 2.77e-002	0.0277188368173125	0.923052749373832
73	76 (127,168,184)	1.000000	Y = 6.38e-001 X	0	0.638257117834992
74	77 (141)	0.999845	Y = 5.90e-001 X + 4.87e-003	0.00486825656755419	0.58982712384577
75	78 (179)	0.999974	Y = 7.01e-001 X - 2.66e-004	-0.00026572069783059	0.701035528377248
76	79 (137)	0.998225	Y = 7.37e-001 X + 8.83e-004	0.00088259337497619	0.736873317281972



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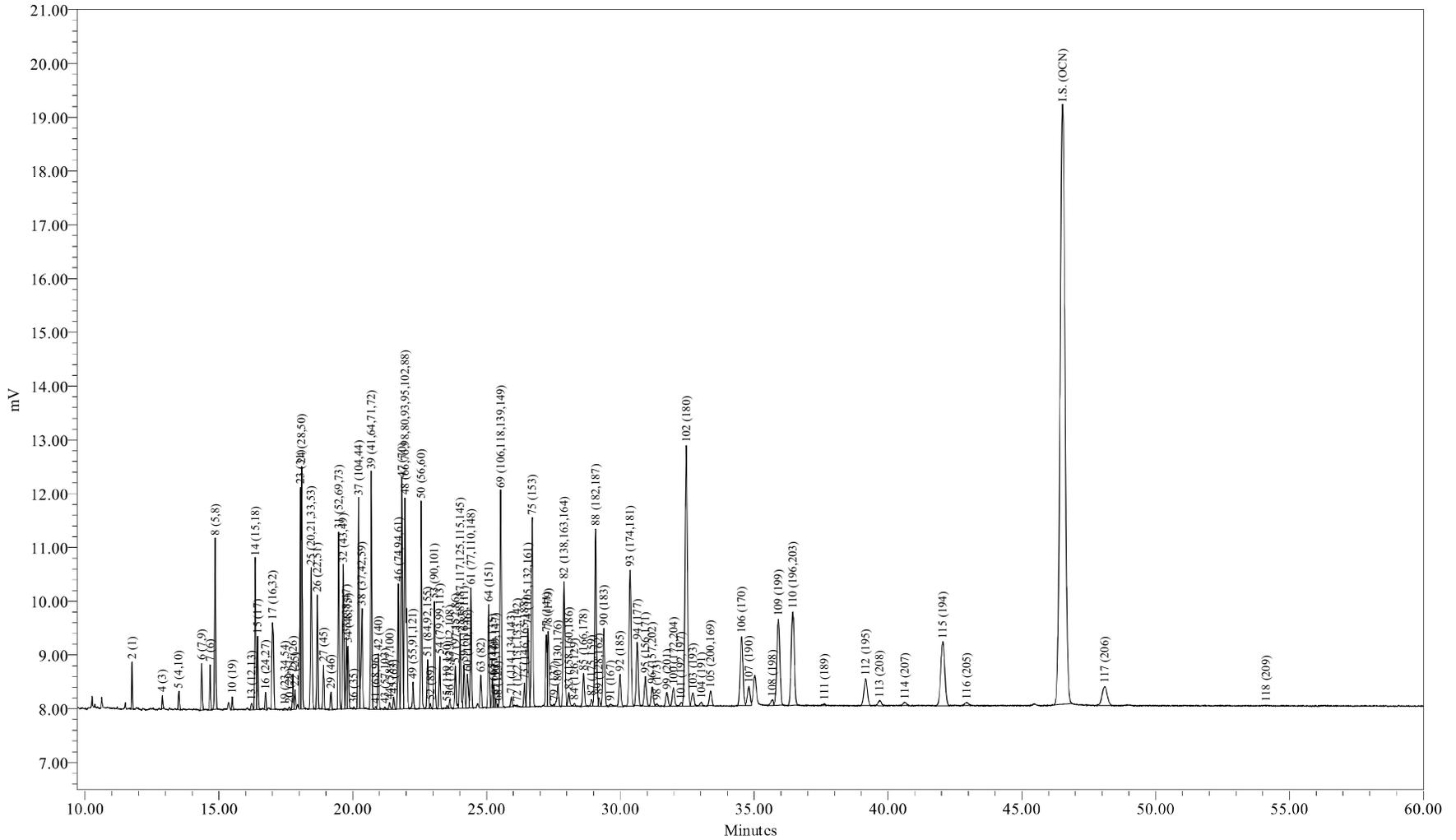
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Project Name:	GC25_Mar_2009	Current Time:	15:17:03
Sample Set Name:	GC25_062509b	Current Date:	08/06/2009
Processing Method:	CSGB_LL1X_062409	Calibration ID:	16276
Run Time:	60 Minutes	Calibration Date(s):	06/24/2009,06/25/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.995074	Y = 1.63e+000 X + 1.60e-003	0.00160110157885474	1.62574248360608
78	82 (138,163,164)	0.999544	Y = 8.85e-001 X + 2.14e-002	0.0213975420769561	0.885058370030973
79	83 (158,160,186)	0.997781	Y = 1.06e+000 X - 5.63e-004	-0.00056334554167794	1.05739175729336
80	84 (126,129)	0.999292	Y = 4.54e+000 X + 3.42e-004	0.000342203032031502	4.54001845046048
81	85 (166,178)	0.999214	Y = 4.59e-001 X - 9.08e-004	-0.00090814451896947	0.458801212052082
82	87 (175,159)	0.998955	Y = 5.64e-001 X + 1.68e-003	0.00167708962052387	0.56418352517916
83	88 (182,187)	0.999400	Y = 8.37e-001 X + 2.06e-002	0.0206135601453967	0.836625748114992
84	89 (128,162)	0.999536	Y = 1.26e+000 X + 4.46e-004	0.000445660215314572	1.25897352169905
85	90 (183)	0.999973	Y = 8.14e-001 X + 1.81e-003	0.00181475769946227	0.813822129421167
86	91 (167)	0.998525	Y = 1.28e+000 X + 3.32e-004	0.000331913308927761	1.27648501035364
87	92 (185)	0.999900	Y = 1.14e+000 X + 2.79e-003	0.00279069865299431	1.13576406254271
88	93 (174,181)	0.999850	Y = 8.17e-001 X + 1.28e-002	0.0127734879587647	0.816797799504459
89	94 (177)	0.999826	Y = 7.13e-001 X + 6.33e-003	0.00632583782743823	0.713435282570369
90	95 (156,171)	0.999922	Y = 7.70e-001 X + 1.45e-003	0.00144624954656258	0.770130740329236
91	96 (157,202)	0.999994	Y = 5.21e+000 X + 5.06e-005	5.06205119406577E-5	5.21357349131553
92	98 (173)	0.999879	Y = 1.05e+000 X + 1.16e-004	0.00011636686369898	1.04526172306656
93	99 (201)	0.999197	Y = 6.75e-001 X + 9.93e-004	0.000992706521052517	0.675477346881319
94	100 (172,204)	0.999521	Y = 6.85e-001 X + 2.49e-003	0.00249113887312313	0.685268852239926
95	101 (192,197)	0.998683	Y = 6.05e-001 X + 1.31e-003	0.00131280866751748	0.604821484876905
96	102 (180)	0.999492	Y = 9.52e-001 X + 5.10e-002	0.0509924559002242	0.951574973129631
97	103 (193)	0.999812	Y = 7.11e-001 X - 1.09e-003	-0.00108530942263974	0.710885292372352
98	104 (191)	0.999716	Y = 7.02e-001 X + 1.13e-004	0.000113408056483744	0.702135441119329
99	105 (200,169)	0.999977	Y = 7.78e-001 X + 1.14e-004	0.000114099718081406	0.777672856899807
100	106 (170)	0.999844	Y = 1.46e+000 X - 4.42e-003	-0.00441759493275451	1.4626528876471
101	107 (190)	0.999904	Y = 1.15e+000 X + 2.03e-003	0.00202837924975913	1.15064824074071
102	108 (198)	0.999723	Y = 1.06e+000 X - 1.06e-003	-0.00105731875710462	1.05637367175092
103	109 (199)	0.999982	Y = 5.43e-001 X + 3.96e-003	0.00396370529569579	0.543483706099096
104	110 (196,203)	0.999952	Y = 6.04e-001 X + 8.33e-003	0.0083314469746405	0.604132161898178
105	111 (189)	0.999869	Y = 1.38e+000 X - 7.83e-005	-7.82995698913116E-5	1.38352280567477
106	112 (195)	0.999771	Y = 1.55e+000 X - 2.73e-003	-0.00272686618274598	1.55256879929458
107	113 (208)	0.999684	Y = 5.42e-001 X + 4.83e-004	0.000483243110050075	0.541929457208907
108	114 (207)	0.999913	Y = 1.04e+000 X + 3.51e-004	0.000350937765753151	1.04251215131114
109	115 (194)	0.999946	Y = 1.32e+000 X + 1.51e-002	0.0150655448536634	1.31874014040716
110	116 (205)	0.999678	Y = 9.73e-001 X + 1.22e-004	0.000122101966356411	0.972857167042802
111	117 (206)	0.999987	Y = 1.18e+000 X - 2.59e-003	-0.00259494335074906	1.18328774695516
112	118 (209)	0.999738	Y = 1.44e+000 X - 6.79e-005	-6.78900492828496E-5	1.44222754354659
113	I.S. (OCN)	1.000000	Y = 8.89e+003 X	0	8891.7983653278

# Standards Raw Data



Sample Name: CCCS0727A  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 7/27/2009 1:14:01 PM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_062409  
 LIMS File ID: GC25-128-3

Sample Name: CCCS0727A

1 of 1

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/27/2009 13:14:01  
 Lab Sample ID: CCCS0727A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-128-3

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 116 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.28	16.74
Di	12.67	15.82
Tri	18.12	19.68
Tetra	21.37	20.55
Penta	8.32	7.10
Hexa	7.67	6.00
Hepta	12.84	9.11
Octa	7.06	4.60
Nona	0.67	0.41
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	8.1545	39.6	32.4
A1242	23+24/31+28	5.8666	28.5	23.3
A1254SED	61/100	1.4621	7.09	
A1254BIO	69+75+82/149+153+138	5.9993		23.9
A1260	102/180	3.9322	19.1	15.6
A1268	115/194	1.1935	5.79	4.75

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 2.08

Total Cl / biphenyl Residue = 3.65

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/27/2009 13:14:01  
 Lab Sample ID: CCCS0727A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-128-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.76	188.7	1580	8.15	43.2			
3	12.78	188.7		-	-			
4	12.89	188.7	490	4.99	26.4			
5	13.50	223.1	990	2.31	10.4			
6	14.36	223.1	2499	0.759	3.40			
7	14.67	223.1	1984	1.25	5.63			
8	14.86	223.1	8305	9.53	42.7			
9	15.42	223.1		-	-			
10	15.50	257.5	589	0.241	0.935			
11	15.97	257.5		-	-			
12	16.03	223.1		-	-			
13	16.23	223.1	437	0.177	0.795			
14	16.36	249.0	8041	2.92	11.7			
15	16.45	257.5	3648	2.85	11.1			
16	16.74	257.5	873	0.219	0.852			
17	17.00	257.5	6849	2.95	11.5			
19	17.46	267.9	141	0.0480	0.179			
20	17.64	257.5	187	0.0412	0.160			
21	17.76	257.5	1811	0.588	2.29			
22	17.84	257.5	1014	0.243	0.945			
23	18.04	257.5	10910	2.82	11.0			
24	18.09	257.5	12820	3.04	11.8			
25	18.45	259.5	9426	2.88	11.1			
26	18.68	258.7	6196	1.98	7.66			
27	18.91	292.0	2293	0.682	2.33			
28	19.04	257.5		-	-			
29	19.19	292.0	958	0.322	1.10			
30	19.31	257.5		-	-			
31	19.48	292.0	9759	3.81	13.0			
32	19.65	292.0	8088	1.58	5.40			
33	19.76	292.0	4008	0.549	1.88			
34	19.82	292.0	3587	0.711	2.44			
35	19.96	292.0		-	-			
36	20.04	257.5	90	0.0428	0.166			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.22	292.0	12015	3.05	10.4			
38	20.35	272.4	6937	2.11	7.75			
39	20.69	292.0	13592	2.63	8.99			
41	20.86	326.4	166	0.0533	0.163			
42	20.96	292.0	3107	0.752	2.57			
43	21.20	298.9	143	0.0329	0.110			
44	21.38	298.9	455	0.0762	0.255			
45	21.53	292.0	720	0.124	0.425			
46	21.70	292.0	7220	0.942	3.23			
47	21.84	292.0	13598	2.24	7.66			
48	21.95	293.5	18100	4.48	15.3			
49	22.26	324.7	1641	0.370	1.14			
50	22.56	292.0	12254	1.98	6.78			
51	22.80	326.4	3427	1.54	4.72			
52	22.91	326.4	284	0.0643	0.197			
53	23.06	326.4	6388	1.28	3.92			
54	23.25	326.4	3084	0.403	1.23			
55	23.52	326.4	150	0.0125	0.0384			
56	23.63	326.4	561	0.128	0.394			
57	23.84	326.4	2709	0.417	1.28			
58	24.01	326.4	4789	0.844	2.59			
59	24.16	326.4	2560	0.376	1.15			
60	24.29	360.9	2495	0.456	1.26			
61	24.42	326.4	7337	1.46	4.48			
62	24.69	360.9	-	-	-			
63	24.79	326.4	1979	0.313	0.960			
64	25.08	360.9	6333	1.15	3.18			
65	25.22	350.5	1742	0.190	0.543			
66	25.28	360.9	1442	0.417	1.16			
67	25.34	336.8	498	0.0899	0.267			
68	25.43	326.4	131	0.0229	0.0702			
69	25.53	337.5	15247	2.53	7.51			
70	25.64	360.9	-	-	-			
71	25.93	347.8	703	0.109	0.313			
72	26.15	336.8	70	0.00632	0.0188			
73	26.42	360.9	1584	0.233	0.647			
74	26.55	347.8	6697	0.817	2.35			
75	26.70	360.9	13564	1.85	5.11			
76	26.81	360.9	-	-	-			
77	27.24	360.9	5055	1.09	3.01			
78	27.31	395.3	5446	0.992	2.51			
79	27.53	360.9	134	0.0221	0.0611			
80	27.67	360.9	1904	0.149	0.412			
82	27.89	360.9	11405	1.62	4.49			
83	28.08	360.9	1140	0.138	0.383			
84	28.28	360.9	204	0.00567	0.0157			
85	28.62	395.3	2703	0.754	1.91			
87	28.93	395.3	524	0.116	0.292			
88	29.07	395.3	15871	2.40	6.06			
89	29.20	360.9	586	0.0591	0.164			
90	29.38	395.3	7004	1.10	2.77			
91	29.64	360.9	254	0.0251	0.0695			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.99	394.3	2990	0.334	0.846			
93	30.36	394.3	13454	2.09	5.29			
94	30.63	394.3	6094	1.08	2.74			
95	30.93	382.2	2980	0.492	1.29			
96	31.19	429.8	2013	0.0493	0.115			
98	31.36	395.3	209	0.0254	0.0643			
99	31.74	429.8	1514	0.285	0.662			
100	31.98	395.3	2058	0.380	0.960			
101	32.27	429.8	342	0.0700	0.163			
102	32.46	395.3	29715	3.93	9.95			
103	32.71	395.3	1543	0.279	0.705			
104	33.03	395.3	406	0.0736	0.186			
105	33.37	429.8	1710	0.281	0.653			
106	34.53	395.3	9181	0.804	2.03			
107	34.80	395.3	2568	0.283	0.716			
108	35.69	429.8	720	0.0880	0.205			
109	35.90	429.8	12488	2.93	6.81			
110	36.44	429.8	13763	2.89	6.73			
111	37.62	395.3	188	0.0174	0.0439			
112	39.16	429.8	4442	0.367	0.854			
113	39.68	464.2	847	0.199	0.428			
114	40.62	464.2	559	0.0681	0.147			
115	42.05	429.8	12449	1.19	2.78			
116	42.93	429.8	531	0.0695	0.162			
117	48.09	464.2	4764	0.516	1.11			
118	54.12	498.6	12	0.00108	0.00216			

Total Concentration = 116 ng/mL

Total Nanomoles = 0.416

Average Molecular Weight = 280.0

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.52 minutes

Internal Standard Peak Area = 142434.8

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/27/2009 13:14:01  
 Lab Sample ID: CCCS0727A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-128-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	7.000	10.388
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003	0.2771	4	4.283	6.355
5	13.50	2:2	004 010	0.2902	2-2; 26	1.984	2.491
6	14.36	2:1	007 009	0.3087	24; 25	0.651	0.817
7	14.67	2:1	006	0.3153	2-3	1.077	1.352
8	14.86	2:1	005 008	0.3194	23; 2-4	8.180	10.267
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3332	26-2	0.207	0.225
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013	0.3489	34; 3-4	0.152	0.191
14	16.36	2:0 3:2	015 018	0.3517	4-4; 25-2	2.509	2.822
15	16.45	3:2	017	0.3536	24-2	2.443	2.657
16	16.74	3:2	024 027	0.3598	236; 26-3	0.188	0.205
17	17.00	3:2	016 032	0.3654	23-2; 26-4	2.536	2.758
19	17.46	3:1 4:4	023 034 054	0.3753	235; 35-2; 26-26	0.041	0.043
20	17.64	3:1	029	0.3792	245	0.035	0.038
21	17.76	3:1	026	0.3818	25-3	0.505	0.549
22	17.84	3:1	025	0.3835	24-3	0.209	0.227
23	18.04	3:1	031	0.3878	25-4	2.423	2.634
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	2.614	2.842
25	18.45	3:1 4:3	020 021 033 053	0.3966	23-3; 234; 34-2; 25-26	2.471	2.667
26	18.68	3:1 4:3	022 051	0.4015	23-4; 24-26	1.701	1.841
27	18.91	4:3	045	0.4065	236-2	0.585	0.561
28	19.04	3:0	036		35-3	-	-
29	19.19	4:3	046	0.4125	23-26	0.277	0.265
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4187	25-25; 246-3; 26-35	3.268	3.134
32	19.65	4:2	043 049	0.4224	235-2; 24-25	1.353	1.297
33	19.76	4:2	038 047	0.4248	345; 24-24	0.472	0.452
34	19.82	4:2	048 075	0.4261	245-2; 246-4	0.611	0.585
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035	0.4308	34-3	0.037	0.040
37	20.22	5:4 4:2	104 044	0.4347	246-26; 23-25	2.615	2.508
38	20.35	3:0 4:2	037 042 059	0.4374	34-4; 23-24; 236-3	1.812	1.862

DB-1 Peak <sup>1</sup>	Retention						Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>		Percent	Percent
39	20.69	4:2	041 064 071 072	0.4448	234-2; 236-4; 26-34; 25-35		2.255	2.162
41	20.86	5:4	068 096	0.4484	24-35; 236-26		0.046	0.039
42	20.96	4:2	040	0.4506	23-23		0.645	0.619
43	21.20	4:1 5:3	057 103	0.4557	235-3; 246-25		0.028	0.026
44	21.38	4:1 5:3	058 067 100	0.4596	23-35; 245-3; 246-24		0.065	0.061
45	21.53	4:1	063	0.4628	235-4		0.106	0.102
46	21.70	4:1 5:3	074 094 061	0.4665	245-4; 235-26; 2345		0.809	0.775
47	21.84	4:1	070	0.4695	25-34		1.921	1.842
48	21.95	4:1 5:3	066 076 098 080 093 095 102 088	0.4718	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2		3.843	3.667
49	22.26	4:1 5:3	055 091 121	0.4785	234-3; 236-24; 246-35		0.318	0.274
50	22.56	4:1	056 060	0.4850	23-34; 234-4		1.701	1.631
51	22.80	5:3 6:4	084 092 155	0.4901	236-23; 235-25; 246-246		1.323	1.135
52	22.91	5:3	089	0.4925	234-26		0.055	0.047
53	23.06	5:2	090 101	0.4957	235-24; 245-25		1.099	0.943
54	23.25	5:2	079 099 113	0.4998	34-35; 245-24; 236-35		0.346	0.297
55	23.52	5:2 6:4	119 150	0.5056	246-34; 236-246		0.011	0.009
56	23.63	5:2	078 083 112 108	0.5080	345-3; 235-23; 2356-3; 2346-3		0.110	0.095
57	23.84	5:2 6:4	097 152 086	0.5125	245-23; 2356-26; 2345-2		0.358	0.307
58	24.01	5:2	081 087 117 125 115 145	0.5161	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26		0.724	0.622
59	24.16	5:2	116 085 111	0.5193	23456; 234-24; 235-35		0.323	0.277
60	24.29	6:4	120 136	0.5221	245-35; 236-236		0.392	0.304
61	24.42	5:2	077 110 148	0.5249	34-34; 236-34; 235-246		1.255	1.077
62	24.69	6:3	154		245-246		-	-
63	24.79	5:2	082	0.5329	234-23		0.269	0.231
64	25.08	6:3	151	0.5391	2356-25		0.986	0.765
65	25.22	5:1 6:3	124 135	0.5421	345-25; 235-236		0.163	0.130
66	25.28	6:3	144	0.5434	2346-25		0.358	0.278
67	25.34	5:1 6:3	107 109 147	0.5447	234-35; 235-34; 2356-24		0.077	0.064
68	25.43	5:1	123	0.5466	345-24		0.020	0.017
69	25.53	5:1 6:3	106 118 139 149	0.5488	2345-3; 245-34; 2346-24; 236-245		2.175	1.804
70	25.64	6:3	140		234-246		-	-
71	25.93	5:1 6:3	114 134 143	0.5574	2345-4; 2356-23; 2345-26		0.093	0.075
72	26.15	5:1 6:3	122 131 133 142	0.5621	345-23; 2346-23; 235-235; 23456-2		0.005	0.005
73	26.42	6:2	146 165 188	0.5679	235-245; 2356-35; 2356-246		0.200	0.155
74	26.55	5:1 6:3	105 132 161	0.5707	234-34; 234-236; 2346-35		0.701	0.564
75	26.70	6:2	153	0.5739	245-245		1.584	1.229
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246		-	-
77	27.24	6:2	141	0.5856	2345-25		0.932	0.723
78	27.31	7:4	179	0.5871	2356-236		0.852	0.603
79	27.53	6:2	137	0.5918	2345-24		0.019	0.015
80	27.67	6:2 7:4	130 176	0.5948	234-235; 2346-236		0.127	0.099
82	27.89	6:2	138 163 164	0.5995	234-245; 2356-34; 236-345		1.391	1.079
83	28.08	6:2	158 160 186	0.6036	2346-34; 23456-3; 23456-26		0.119	0.092
84	28.28	6:2	126 129	0.6079	345-34; 2345-23		0.005	0.004
85	28.62	7:3	166 178	0.6152	23456-4; 2356-235		0.647	0.459
87	28.93	7:3	175 159	0.6219	2346-235; 2345-35		0.099	0.070
88	29.07	7:3	182 187	0.6249	2345-246; 2356-245		2.057	1.457
89	29.20	6:2	128 162	0.6277	234-234; 235-345		0.051	0.039
90	29.38	7:3	183	0.6316	2346-245		0.941	0.667
91	29.64	6:1	167	0.6371	245-345		0.022	0.017
92	29.99	7:3	185	0.6447	23456-25		0.286	0.203
93	30.36	7:3	174 181	0.6526	2345-236; 23456-24		1.791	1.272
94	30.63	7:3	177	0.6584	2356-234		0.928	0.659
95	30.93	6:1 7:3	156 171	0.6649	2345-34; 2346-234		0.422	0.309
96	31.19	8:4	157 202	0.6705	234-345; 2356-2356		0.042	0.028
98	31.36	7:3	173	0.6741	23456-23		0.022	0.015
99	31.74	8:4	201	0.6823	2346-2356		0.244	0.159
100	31.98	7:2	172 204	0.6874	2345-235; 23456-246		0.326	0.231
101	32.27	8:4	192 197	0.6937	23456-35; 2346-2346		0.060	0.039
102	32.46	7:2	180	0.6978	2345-245		3.376	2.391
103	32.71	7:2	193	0.7031	2356-345		0.239	0.169
104	33.03	7:2	191	0.7100	2346-345		0.063	0.045

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.37	8:4	<b>200</b> 169	0.7173	23456-236; 345-345	0.241	0.157
106	34.53	7:2	<b>170</b>	0.7423	2345-234	0.690	0.489
107	34.80	7:2	<b>190</b>	0.7481	23456-34	0.243	0.172
108	35.69	8:3	<b>198</b>	0.7672	23456-235	0.076	0.049
109	35.90	8:3	<b>199</b>	0.7717	2345-2356	2.511	1.636
110	36.44	8:3	<b>196 203</b>	0.7833	2345-2346; 23456-245	2.484	1.619
111	37.62	7:1	<b>189</b>	0.8087	2345-345	0.015	0.011
112	39.16	8:3	<b>195</b>	0.8418	23456-234	0.315	0.205
113	39.68	9:4	<b>208</b>	0.8530	23456-2356	0.171	0.103
114	40.62	9:4	<b>207</b>	0.8732	23456-2346	0.058	0.035
115	42.05	8:2	<b>194</b>	0.9039	2345-2345	1.025	0.667
116	42.93	8:2	<b>205</b>	0.9228	23456-345	0.060	0.039
117	48.09	9:3	<b>206</b>	1.034	23456-2345	0.443	0.267
118	54.12	10:4	<b>209</b>	1.163	23456-23456	0.001	0.001

Concentration = 116 ng/mL

Total Nanomoles = 0.416

Average Molecular Weight = 280.0

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

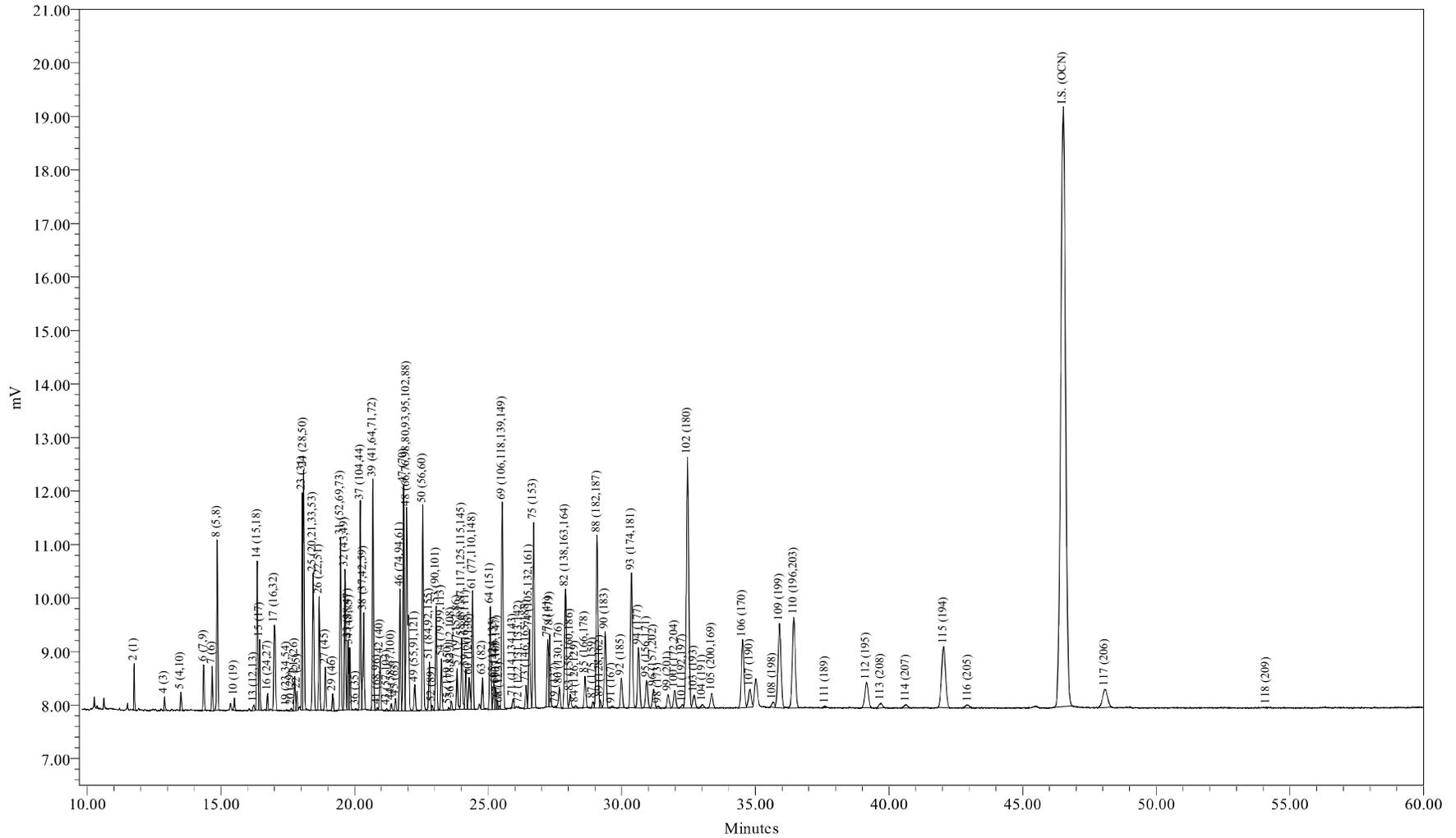
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Sample Name: CCCS0727B  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 07/27/2009 20:53:03 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-T28-10

Sample Name: CCCS0727B

1 of 1

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/27/2009 20:53:03  
 Lab Sample ID: CCCS0727B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-128-10

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 117 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	12.78	18.79
Di	12.54	15.52
Tri	17.86	19.23
Tetra	21.11	20.11
Penta	8.20	6.93
Hexa	7.47	5.79
Hepta	12.45	8.75
Octa	6.96	4.49
Nona	0.63	0.37
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	8.2774	40.4	33.1
A1242	23+24/31+28	5.7927	28.3	23.2
A1254SED	61/100	1.4174	6.91	
A1254BIO	69+75+82/149+153+138	5.9151		23.7
A1260	102/180	3.8593	18.8	15.4
A1268	115/194	1.1521	5.62	4.61

Ortho Cl / biphenyl Residue = 1.53

Meta + Para Cl / biphenyl Residue = 2.05

Total Cl / biphenyl Residue = 3.58

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/27/2009 20:53:03  
 Lab Sample ID: CCCS0727B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-128-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.76	188.7	1589	8.28	43.9			
3	12.78	188.7		-	-			
4	12.89	188.7	646	6.65	35.2			
5	13.50	223.1	966	2.28	10.2			
6	14.36	223.1	2395	0.734	3.29			
7	14.67	223.1	1938	1.24	5.55			
8	14.86	223.1	8216	9.52	42.7			
9	15.42	223.1		-	-			
10	15.50	257.5	559	0.231	0.896			
11	15.97	257.5		-	-			
12	16.03	223.1		-	-			
13	16.23	223.1	422	0.173	0.776			
14	16.36	249.0	7853	2.88	11.6			
15	16.45	257.5	3553	2.80	10.9			
16	16.75	257.5	839	0.213	0.827			
17	17.00	257.5	6753	2.94	11.4			
19	17.46	267.9	82	0.0281	0.105			
20	17.64	257.5	193	0.0428	0.166			
21	17.76	257.5	1815	0.595	2.31			
22	17.84	257.5	1020	0.247	0.960			
23	18.04	257.5	10799	2.82	10.9			
24	18.09	257.5	12408	2.97	11.5			
25	18.45	259.5	9318	2.87	11.1			
26	18.68	258.7	6105	1.97	7.62			
27	18.91	292.0	2310	0.693	2.37			
28	19.04	257.5		-	-			
29	19.18	292.0	944	0.321	1.10			
30	19.31	257.5		-	-			
31	19.48	292.0	9573	3.77	12.9			
32	19.64	292.0	7908	1.55	5.32			
33	19.76	292.0	3861	0.534	1.83			
34	19.82	292.0	3379	0.676	2.31			
35	19.96	292.0		-	-			
36	20.05	257.5	85	0.0406	0.158			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.22	292.0	11802	3.02	10.3			
38	20.34	272.4	6662	2.04	7.51			
39	20.69	292.0	13264	2.59	8.86			
41	20.86	326.4	165	0.0536	0.164			
42	20.96	292.0	2982	0.728	2.49			
43	21.20	298.9	154	0.0357	0.120			
44	21.38	298.9	498	0.0841	0.281			
45	21.54	292.0	732	0.127	0.436			
46	21.71	292.0	7163	0.943	3.23			
47	21.84	292.0	13386	2.22	7.61			
48	21.95	293.5	17891	4.47	15.2			
49	22.26	324.7	1738	0.396	1.22			
50	22.56	292.0	12156	1.98	6.79			
51	22.80	326.4	3505	1.59	4.88			
52	22.90	326.4	310	0.0709	0.217			
53	23.06	326.4	6326	1.28	3.92			
54	23.25	326.4	3019	0.398	1.22			
55	23.52	326.4	136	0.0115	0.0352			
56	23.62	326.4	517	0.120	0.366			
57	23.84	326.4	2454	0.381	1.17			
58	24.01	326.4	4497	0.799	2.45			
59	24.16	326.4	2400	0.356	1.09			
60	24.29	360.9	2356	0.435	1.20			
61	24.42	326.4	7050	1.42	4.34			
62	24.69	360.9	-	-	-			
63	24.78	326.4	1857	0.297	0.909			
64	25.08	360.9	6190	1.13	3.14			
65	25.21	350.5	1866	0.206	0.587			
66	25.27	360.9	1281	0.374	1.04			
67	25.34	336.8	451	0.0822	0.244			
68	25.42	326.4	182	0.0321	0.0983			
69	25.53	337.5	14954	2.51	7.43			
70	25.64	360.9	-	-	-			
71	25.93	347.8	650	0.101	0.292			
72	26.14	336.8	53	0.00499	0.0148			
73	26.42	360.9	1561	0.232	0.643			
74	26.54	347.8	6543	0.805	2.32			
75	26.70	360.9	13082	1.80	4.98			
76	26.81	360.9	-	-	-			
77	27.24	360.9	4850	1.05	2.91			
78	27.31	395.3	5029	0.925	2.34			
79	27.51	360.9	83	0.0134	0.0370			
80	27.67	360.9	1803	0.142	0.393			
82	27.89	360.9	11240	1.61	4.47			
83	28.07	360.9	1177	0.144	0.399			
84	28.27	360.9	203	0.00570	0.0158			
85	28.62	395.3	2503	0.705	1.78			
87	28.92	395.3	500	0.111	0.282			
88	29.07	395.3	15451	2.35	5.96			
89	29.19	360.9	572	0.0582	0.161			
90	29.38	395.3	6726	1.06	2.69			
91	29.63	360.9	160	0.0159	0.0441			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.98	394.3	2738	0.308	0.781			
93	30.36	394.3	13069	2.05	5.19			
94	30.62	394.3	6064	1.09	2.75			
95	30.93	382.2	2852	0.475	1.24			
96	31.19	429.8	1943	0.0480	0.112			
98	31.37	395.3	224	0.0275	0.0696			
99	31.73	429.8	1449	0.275	0.639			
100	31.98	395.3	1940	0.361	0.913			
101	32.26	429.8	320	0.0660	0.154			
102	32.46	395.3	28901	3.86	9.76			
103	32.70	395.3	1466	0.267	0.676			
104	33.02	395.3	349	0.0639	0.162			
105	33.37	429.8	1780	0.295	0.686			
106	34.52	395.3	8948	0.791	2.00			
107	34.79	395.3	2430	0.270	0.684			
108	35.64	429.8	651	0.0804	0.187			
109	35.90	429.8	12286	2.90	6.76			
110	36.44	429.8	13583	2.88	6.71			
111	37.62	395.3	128	0.0120	0.0303			
112	39.16	429.8	4233	0.353	0.821			
113	39.69	464.2	744	0.176	0.379			
114	40.64	464.2	582	0.0715	0.154			
115	42.05	429.8	11910	1.15	2.68			
116	42.96	429.8	556	0.0736	0.171			
117	48.08	464.2	4422	0.484	1.04			
118	54.13	498.6	21	0.00194	0.00390			

Total Concentration = 117 ng/mL

Total Nanomoles = 0.421

Average Molecular Weight = 277.5

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.52 minutes

Internal Standard Peak Area = 141115.8

Northeast Analytical, Inc.  
2190 Technology Drive  
Schenectady, NY 12308  
(518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/27/2009 20:53:03  
 Lab Sample ID: CCCS0727B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-128-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	7.086	10.421
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003	0.2771	4	5.691	8.369
5	13.50	2:2	004 010	0.2902	2-2; 26	1.948	2.423
6	14.36	2:1	007 009	0.3087	24; 25	0.628	0.781
7	14.67	2:1	006	0.3153	2-3	1.059	1.318
8	14.86	2:1	005 008	0.3194	23; 2-4	8.146	10.132
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3332	26-2	0.197	0.213
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013	0.3489	34; 3-4	0.148	0.184
14	16.36	2:0 3:2	015 018	0.3517	4-4; 25-2	2.467	2.749
15	16.45	3:2	017	0.3536	24-2	2.395	2.581
16	16.75	3:2	024 027	0.3601	236; 26-3	0.182	0.196
17	17.00	3:2	016 032	0.3654	23-2; 26-4	2.516	2.712
19	17.46	3:1 4:4	023 034 054	0.3753	235; 35-2; 26-26	0.024	0.025
20	17.64	3:1	029	0.3792	245	0.037	0.039
21	17.76	3:1	026	0.3818	25-3	0.510	0.549
22	17.84	3:1	025	0.3835	24-3	0.212	0.228
23	18.04	3:1	031	0.3878	25-4	2.414	2.601
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	2.545	2.743
25	18.45	3:1 4:3	020 021 033 053	0.3966	23-3; 234; 34-2; 25-26	2.459	2.630
26	18.68	3:1 4:3	022 051	0.4015	23-4; 24-26	1.687	1.810
27	18.91	4:3	045	0.4065	236-2	0.593	0.564
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046	0.4123	23-26	0.274	0.261
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4187	25-25; 246-3; 26-35	3.227	3.067
32	19.64	4:2	043 049	0.4222	235-2; 24-25	1.331	1.265
33	19.76	4:2	038 047	0.4248	345; 24-24	0.457	0.434
34	19.82	4:2	048 075	0.4261	245-2; 246-4	0.579	0.550
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.05	3:0	035	0.4310	34-3	0.035	0.037
37	20.22	5:4 4:2	104 044	0.4347	246-26; 23-25	2.586	2.457
38	20.34	3:0 4:2	037 042 059	0.4372	34-4; 23-24; 236-3	1.750	1.783

DB-1 Peak <sup>1</sup>	Retention						Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>		Percent	Percent
39	20.69	4:2	041 064 071 072	0.4448	234-2; 236-4; 26-34; 25-35		2.214	2.104
41	20.86	5:4	068 096	0.4484	24-35; 236-26		0.046	0.039
42	20.96	4:2	040	0.4506	23-23		0.623	0.593
43	21.20	4:1 5:3	057 103	0.4557	235-3; 246-25		0.031	0.028
44	21.38	4:1 5:3	058 067 100	0.4596	23-35; 245-3; 246-24		0.072	0.067
45	21.54	4:1	063	0.4630	235-4		0.109	0.104
46	21.71	4:1 5:3	074 094 061	0.4667	245-4; 235-26; 2345		0.808	0.767
47	21.84	4:1	070	0.4695	25-34		1.903	1.809
48	21.95	4:1 5:3	066 076 098 080 093 095 102 088	0.4718	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2		3.824	3.615
49	22.26	4:1 5:3	055 091 121	0.4785	234-3; 236-24; 246-35		0.339	0.289
50	22.56	4:1	056 060	0.4850	23-34; 234-4		1.698	1.614
51	22.80	5:3 6:4	084 092 155	0.4901	236-23; 235-25; 246-246		1.362	1.158
52	22.90	5:3	089	0.4923	234-26		0.061	0.052
53	23.06	5:2	090 101	0.4957	235-24; 245-25		1.095	0.931
54	23.25	5:2	079 099 113	0.4998	34-35; 245-24; 236-35		0.341	0.290
55	23.52	5:2 6:4	119 150	0.5056	246-34; 236-246		0.010	0.008
56	23.62	5:2	078 083 112 108	0.5077	345-3; 235-23; 2356-3; 2346-3		0.102	0.087
57	23.84	5:2 6:4	097 152 086	0.5125	245-23; 2356-26; 2345-2		0.327	0.278
58	24.01	5:2	081 087 117 125 115 145	0.5161	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26		0.684	0.582
59	24.16	5:2	116 085 111	0.5193	23456; 234-24; 235-35		0.304	0.259
60	24.29	6:4	120 136	0.5221	245-35; 236-236		0.372	0.286
61	24.42	5:2	077 110 148	0.5249	34-34; 236-34; 235-246		1.213	1.032
62	24.69	6:3	154		245-246		-	-
63	24.78	5:2	082	0.5327	234-23		0.254	0.216
64	25.08	6:3	151	0.5391	2356-25		0.970	0.746
65	25.21	5:1 6:3	124 135	0.5419	345-25; 235-236		0.176	0.139
66	25.27	6:3	144	0.5432	2346-25		0.320	0.246
67	25.34	5:1 6:3	107 109 147	0.5447	234-35; 235-34; 2356-24		0.070	0.058
68	25.42	5:1	123	0.5464	345-24		0.027	0.023
69	25.53	5:1 6:3	106 118 139 149	0.5488	2345-3; 245-34; 2346-24; 236-245		2.146	1.765
70	25.64	6:3	140		234-246		-	-
71	25.93	5:1 6:3	114 134 143	0.5574	2345-4; 2356-23; 2345-26		0.087	0.069
72	26.14	5:1 6:3	122 131 133 142	0.5619	345-23; 2346-23; 235-235; 23456-2		0.004	0.004
73	26.42	6:2	146 165 188	0.5679	235-245; 2356-35; 2356-246		0.199	0.153
74	26.54	5:1 6:3	105 132 161	0.5705	234-34; 234-236; 2346-35		0.689	0.550
75	26.70	6:2	153	0.5739	245-245		1.537	1.182
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246		-	-
77	27.24	6:2	141	0.5856	2345-25		0.900	0.692
78	27.31	7:4	179	0.5871	2356-236		0.791	0.556
79	27.51	6:2	137	0.5914	2345-24		0.011	0.009
80	27.67	6:2 7:4	130 176	0.5948	234-235; 2346-236		0.122	0.093
82	27.89	6:2	138 163 164	0.5995	234-245; 2356-34; 236-345		1.380	1.061
83	28.07	6:2	158 160 186	0.6034	2346-34; 23456-3; 23456-26		0.123	0.095
84	28.27	6:2	126 129	0.6077	345-34; 2345-23		0.005	0.004
85	28.62	7:3	166 178	0.6152	23456-4; 2356-235		0.603	0.424
87	28.92	7:3	175 159	0.6217	2346-235; 2345-35		0.095	0.067
88	29.07	7:3	182 187	0.6249	2345-246; 2356-245		2.016	1.415
89	29.19	6:2	128 162	0.6275	234-234; 235-345		0.050	0.038
90	29.38	7:3	183	0.6316	2346-245		0.910	0.639
91	29.63	6:1	167	0.6369	245-345		0.014	0.010
92	29.98	7:3	185	0.6445	23456-25		0.264	0.186
93	30.36	7:3	174 181	0.6526	2345-236; 23456-24		1.751	1.232
94	30.62	7:3	177	0.6582	2356-234		0.930	0.654
95	30.93	6:1 7:3	156 171	0.6649	2345-34; 2346-234		0.407	0.295
96	31.19	8:4	157 202	0.6705	234-345; 2356-2356		0.041	0.027
98	31.37	7:3	173	0.6743	23456-23		0.024	0.017
99	31.73	8:4	201	0.6821	2346-2356		0.235	0.152
100	31.98	7:2	172 204	0.6874	2345-235; 23456-246		0.309	0.217
101	32.26	8:4	192 197	0.6935	23456-35; 2346-2346		0.057	0.036
102	32.46	7:2	180	0.6978	2345-245		3.304	2.319
103	32.70	7:2	193	0.7029	2356-345		0.229	0.161
104	33.02	7:2	191	0.7098	2346-345		0.055	0.038

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.37	8:4	<b>200</b> 169	0.7173	23456-236; 345-345	0.252	0.163
106	34.52	7:2	<b>170</b>	0.7420	2345-234	0.677	0.475
107	34.79	7:2	<b>190</b>	0.7479	23456-34	0.231	0.162
108	35.64	8:3	<b>198</b>	0.7661	23456-235	0.069	0.044
109	35.90	8:3	<b>199</b>	0.7717	2345-2356	2.487	1.606
110	36.44	8:3	<b>196</b> <b>203</b>	0.7833	2345-2346; 23456-245	2.468	1.593
111	37.62	7:1	<b>189</b>	0.8087	2345-345	0.010	0.007
112	39.16	8:3	<b>195</b>	0.8418	23456-234	0.302	0.195
113	39.69	9:4	<b>208</b>	0.8532	23456-2356	0.151	0.090
114	40.64	9:4	<b>207</b>	0.8736	23456-2346	0.061	0.037
115	42.05	8:2	<b>194</b>	0.9039	2345-2345	0.986	0.637
116	42.96	8:2	<b>205</b>	0.9235	23456-345	0.063	0.041
117	48.08	9:3	<b>206</b>	1.034	23456-2345	0.414	0.248
118	54.13	10:4	<b>209</b>	1.164	23456-23456	0.002	0.001

Concentration = 117 ng/mL

Total Nanomoles = 0.421

Average Molecular Weight = 277.5

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

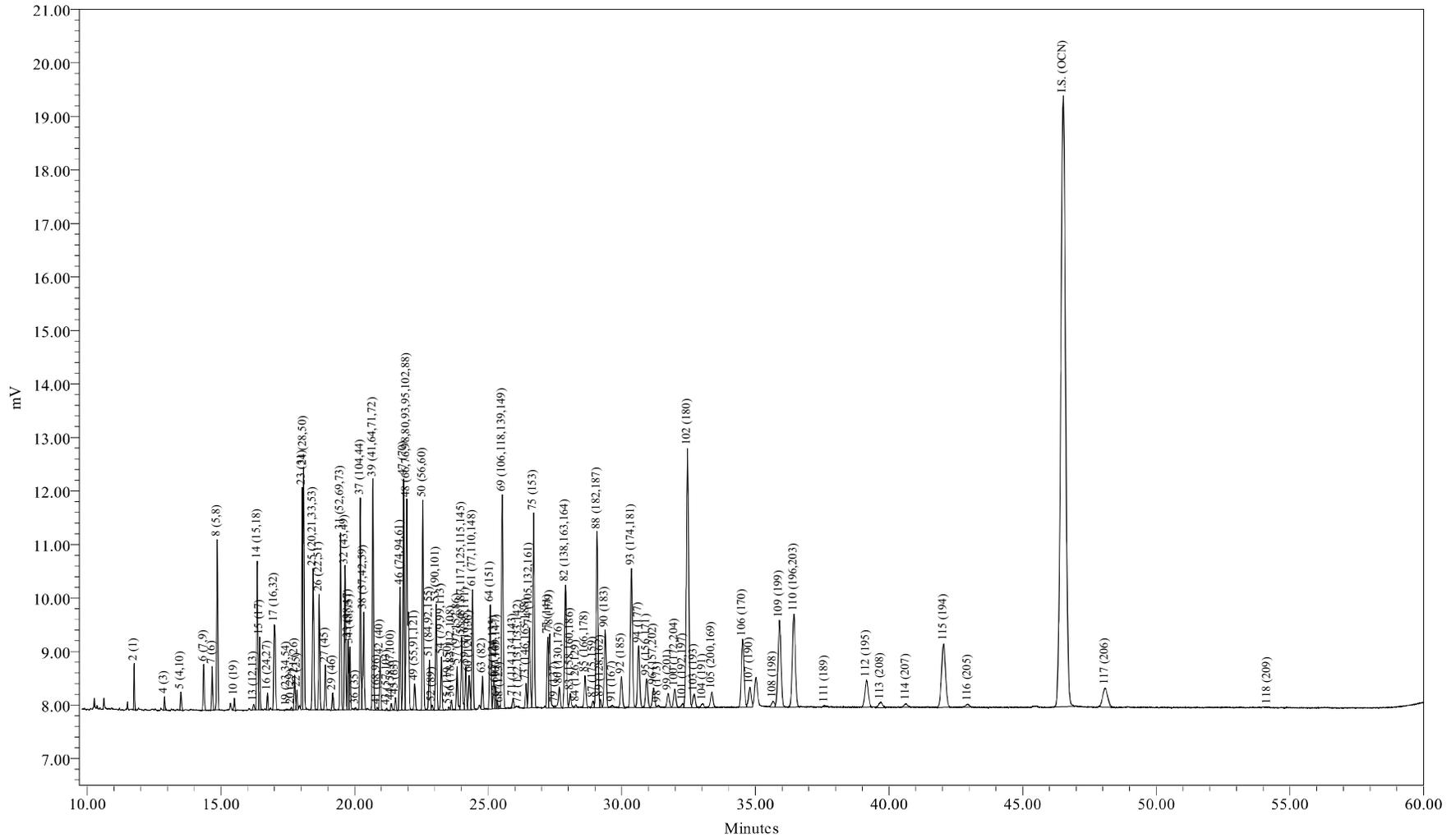
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Sample Name: CCCS0727C  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 07/28/2009 05:44:06 EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_062409  
 LIMS File ID: GC25-T28-18

Sample Name: CCCS0727C

1 of 1

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 05:44:06  
 Lab Sample ID: CCCS0727C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-128-18

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 117 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	12.18	18.01
Di	12.42	15.46
Tri	17.78	19.25
Tetra	21.11	20.23
Penta	8.27	7.03
Hexa	7.60	5.92
Hepta	12.81	9.05
Octa	7.14	4.63
Nona	0.70	0.42
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	8.1729	39.9	32.7
A1242	23+24/31+28	5.7644	28.1	23.1
A1254SED	61/100	1.4625	7.14	
A1254BIO	69+75+82/149+153+138	5.9303		23.8
A1260	102/180	3.9076	19.1	15.7
A1268	115/194	1.1811	5.76	4.73

Ortho Cl / biphenyl Residue = 1.55

Meta + Para Cl / biphenyl Residue = 2.07

Total Cl / biphenyl Residue = 3.62

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 05:44:06  
 Lab Sample ID: CCCS0727C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-128-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.76	188.7	1596	8.17	43.3			
3	12.78	188.7		-	-			
4	12.89	188.7	599	6.06	32.1			
5	13.50	223.1	1000	2.32	10.4			
6	14.36	223.1	2474	0.745	3.34			
7	14.67	223.1	1955	1.23	5.50			
8	14.86	223.1	8226	9.36	42.0			
9	15.42	223.1		-	-			
10	15.50	257.5	599	0.243	0.944			
11	15.97	257.5		-	-			
12	16.03	223.1		-	-			
13	16.23	223.1	378	0.152	0.682			
14	16.36	249.0	7938	2.86	11.5			
15	16.45	257.5	3555	2.75	10.7			
16	16.74	257.5	815	0.203	0.789			
17	17.00	257.5	6838	2.93	11.4			
19	17.46	267.9	134	0.0452	0.169			
20	17.63	257.5	196	0.0428	0.166			
21	17.76	257.5	1798	0.580	2.25			
22	17.84	257.5	1025	0.244	0.949			
23	18.04	257.5	10774	2.77	10.7			
24	18.09	257.5	12729	3.00	11.6			
25	18.45	259.5	9378	2.84	11.0			
26	18.68	258.7	6221	1.97	7.63			
27	18.91	292.0	2397	0.707	2.42			
28	19.04	257.5		-	-			
29	19.18	292.0	987	0.330	1.13			
30	19.31	257.5		-	-			
31	19.48	292.0	9761	3.78	12.9			
32	19.64	292.0	8060	1.56	5.33			
33	19.76	292.0	3835	0.521	1.78			
34	19.82	292.0	3497	0.688	2.35			
35	19.96	292.0		-	-			
36	20.04	257.5	145	0.0683	0.265			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.22	292.0	11980	3.01	10.3			
38	20.35	272.4	6871	2.07	7.61			
39	20.69	292.0	13488	2.59	8.85			
41	20.85	326.4	160	0.0512	0.157			
42	20.96	292.0	3074	0.738	2.53			
43	21.21	298.9	129	0.0294	0.0983			
44	21.37	298.9	464	0.0771	0.258			
45	21.53	292.0	716	0.122	0.419			
46	21.70	292.0	7225	0.935	3.20			
47	21.84	292.0	13607	2.22	7.61			
48	21.95	293.5	18134	4.45	15.2			
49	22.25	324.7	1567	0.351	1.08			
50	22.56	292.0	12403	1.99	6.81			
51	22.80	326.4	3498	1.56	4.78			
52	22.90	326.4	316	0.0711	0.218			
53	23.06	326.4	6456	1.28	3.93			
54	23.25	326.4	3114	0.404	1.24			
55	23.51	326.4	154	0.0128	0.0392			
56	23.63	326.4	564	0.128	0.393			
57	23.84	326.4	2767	0.423	1.30			
58	24.01	326.4	4802	0.840	2.57			
59	24.16	326.4	2593	0.378	1.16			
60	24.29	360.9	2533	0.460	1.27			
61	24.41	326.4	7396	1.46	4.48			
62	24.69	360.9	-	-	-			
63	24.78	326.4	1951	0.307	0.939			
64	25.08	360.9	6320	1.14	3.15			
65	25.21	350.5	1807	0.196	0.559			
66	25.27	360.9	1372	0.394	1.09			
67	25.33	336.8	383	0.0685	0.203			
68	25.43	326.4	154	0.0266	0.0816			
69	25.53	337.5	15161	2.50	7.40			
70	25.64	360.9	-	-	-			
71	25.93	347.8	704	0.108	0.310			
72	26.13	336.8	72	0.00646	0.0192			
73	26.42	360.9	1573	0.230	0.637			
74	26.55	347.8	6697	0.810	2.33			
75	26.70	360.9	13434	1.81	5.02			
76	26.81	360.9	-	-	-			
77	27.24	360.9	5138	1.10	3.03			
78	27.30	395.3	5544	1.00	2.54			
79	27.50	360.9	144	0.0235	0.0651			
80	27.66	360.9	1965	0.152	0.422			
82	27.89	360.9	11473	1.62	4.48			
83	28.07	360.9	1191	0.143	0.397			
84	28.29	360.9	190	0.00523	0.0145			
85	28.62	395.3	2709	0.750	1.90			
87	28.93	395.3	555	0.122	0.307			
88	29.07	395.3	15895	2.38	6.03			
89	29.20	360.9	603	0.0603	0.167			
90	29.38	395.3	6976	1.08	2.74			
91	29.65	360.9	253	0.0249	0.0689			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.99	394.3	2989	0.331	0.839			
93	30.36	394.3	13478	2.07	5.26			
94	30.63	394.3	6329	1.11	2.83			
95	30.93	382.2	3072	0.503	1.32			
96	31.19	429.8	2045	0.0497	0.116			
98	31.36	395.3	175	0.0211	0.0534			
99	31.74	429.8	1511	0.282	0.656			
100	31.98	395.3	2059	0.377	0.954			
101	32.28	429.8	390	0.0794	0.185			
102	32.46	395.3	29759	3.91	9.89			
103	32.70	395.3	1643	0.294	0.744			
104	33.03	395.3	527	0.0949	0.240			
105	33.37	429.8	1974	0.321	0.748			
106	34.52	395.3	9188	0.799	2.02			
107	34.79	395.3	2599	0.284	0.719			
108	35.65	429.8	821	0.0994	0.231			
109	35.90	429.8	12837	2.98	6.94			
110	36.44	429.8	13950	2.91	6.77			
111	37.60	395.3	188	0.0172	0.0436			
112	39.16	429.8	4465	0.366	0.852			
113	39.69	464.2	1012	0.236	0.508			
114	40.65	464.2	622	0.0752	0.162			
115	42.05	429.8	12416	1.18	2.75			
116	42.95	429.8	522	0.0679	0.158			
117	48.08	464.2	4676	0.503	1.08			
118	54.17	498.6	27	0.00242	0.00485			

Total Concentration = 117 ng/mL

Total Nanomoles = 0.419

Average Molecular Weight = 279.0

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.52 minutes

Internal Standard Peak Area = 143530.6

Northeast Analytical, Inc.  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 05:44:06  
 Lab Sample ID: CCCS0727C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-128-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	6.993	10.341
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003	0.2771	4	5.187	7.670
5	13.50	2:2	004 010	0.2902	2-2; 26	1.982	2.479
6	14.36	2:1	007 009	0.3087	24; 25	0.638	0.798
7	14.67	2:1	006	0.3153	2-3	1.050	1.313
8	14.86	2:1	005 008	0.3194	23; 2-4	8.012	10.021
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3332	26-2	0.208	0.225
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013	0.3489	34; 3-4	0.130	0.163
14	16.36	2:0 3:2	015 018	0.3517	4-4; 25-2	2.450	2.746
15	16.45	3:2	017	0.3536	24-2	2.355	2.552
16	16.74	3:2	024 027	0.3598	236; 26-3	0.174	0.188
17	17.00	3:2	016 032	0.3654	23-2; 26-4	2.504	2.713
19	17.46	3:1 4:4	023 034 054	0.3753	235; 35-2; 26-26	0.039	0.040
20	17.63	3:1	029	0.3790	245	0.037	0.040
21	17.76	3:1	026	0.3818	25-3	0.496	0.538
22	17.84	3:1	025	0.3835	24-3	0.209	0.226
23	18.04	3:1	031	0.3878	25-4	2.366	2.564
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	2.566	2.781
25	18.45	3:1 4:3	020 021 033 053	0.3966	23-3; 234; 34-2; 25-26	2.432	2.615
26	18.68	3:1 4:3	022 051	0.4015	23-4; 24-26	1.689	1.822
27	18.91	4:3	045	0.4065	236-2	0.605	0.578
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046	0.4123	23-26	0.282	0.270
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4187	25-25; 246-3; 26-35	3.233	3.090
32	19.64	4:2	043 049	0.4222	235-2; 24-25	1.333	1.274
33	19.76	4:2	038 047	0.4248	345; 24-24	0.446	0.426
34	19.82	4:2	048 075	0.4261	245-2; 246-4	0.588	0.562
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035	0.4308	34-3	0.058	0.063
37	20.22	5:4 4:2	104 044	0.4347	246-26; 23-25	2.579	2.465
38	20.35	3:0 4:2	037 042 059	0.4374	34-4; 23-24; 236-3	1.774	1.817

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	041 064 071 072	0.4448	234-2; 236-4; 26-34; 25-35	2.212	2.114
41	20.85	5:4	068 096	0.4482	24-35; 236-26	0.044	0.037
42	20.96	4:2	040	0.4506	23-23	0.632	0.604
43	21.21	4:1 5:3	057 103	0.4559	235-3; 246-25	0.025	0.023
44	21.37	4:1 5:3	058 067 100	0.4594	23-35; 245-3; 246-24	0.066	0.062
45	21.53	4:1	063	0.4628	235-4	0.105	0.100
46	21.70	4:1 5:3	074 094 061	0.4665	245-4; 235-26; 2345	0.800	0.765
47	21.84	4:1	070	0.4695	25-34	1.901	1.817
48	21.95	4:1 5:3	066 076 098 080 093 095 102 088	0.4718	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.808	3.621
49	22.25	4:1 5:3	055 091 121	0.4783	234-3; 236-24; 246-35	0.300	0.258
50	22.56	4:1	056 060	0.4850	23-34; 234-4	1.703	1.627
51	22.80	5:3 6:4	084 092 155	0.4901	236-23; 235-25; 246-246	1.336	1.142
52	22.90	5:3	089	0.4923	234-26	0.061	0.052
53	23.06	5:2	090 101	0.4957	235-24; 245-25	1.098	0.939
54	23.25	5:2	079 099 113	0.4998	34-35; 245-24; 236-35	0.345	0.295
55	23.51	5:2 6:4	119 150	0.5054	246-34; 236-246	0.011	0.009
56	23.63	5:2	078 083 112 108	0.5080	345-3; 235-23; 2356-3; 2346-3	0.110	0.094
57	23.84	5:2 6:4	097 152 086	0.5125	245-23; 2356-26; 2345-2	0.362	0.309
58	24.01	5:2	081 087 117 125 115 145	0.5161	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.718	0.614
59	24.16	5:2	116 085 111	0.5193	23456; 234-24; 235-35	0.323	0.277
60	24.29	6:4	120 136	0.5221	245-35; 236-236	0.393	0.304
61	24.41	5:2	077 110 148	0.5247	34-34; 236-34; 235-246	1.251	1.070
62	24.69	6:3	154		245-246	-	-
63	24.78	5:2	082	0.5327	234-23	0.262	0.224
64	25.08	6:3	151	0.5391	2356-25	0.973	0.753
65	25.21	5:1 6:3	124 135	0.5419	345-25; 235-236	0.168	0.133
66	25.27	6:3	144	0.5432	2346-25	0.337	0.261
67	25.33	5:1 6:3	107 109 147	0.5445	234-35; 235-34; 2356-24	0.059	0.049
68	25.43	5:1	123	0.5466	345-24	0.023	0.019
69	25.53	5:1 6:3	106 118 139 149	0.5488	2345-3; 245-34; 2346-24; 236-245	2.138	1.768
70	25.64	6:3	140		234-246	-	-
71	25.93	5:1 6:3	114 134 143	0.5574	2345-4; 2356-23; 2345-26	0.092	0.074
72	26.13	5:1 6:3	122 131 133 142	0.5617	345-23; 2346-23; 235-235; 23456-2	0.006	0.005
73	26.42	6:2	146 165 188	0.5679	235-245; 2356-35; 2356-246	0.197	0.152
74	26.55	5:1 6:3	105 132 161	0.5707	234-34; 234-236; 2346-35	0.693	0.556
75	26.70	6:2	153	0.5739	245-245	1.552	1.200
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	141	0.5856	2345-25	0.937	0.725
78	27.30	7:4	179	0.5868	2356-236	0.857	0.605
79	27.50	6:2	137	0.5911	2345-24	0.020	0.016
80	27.66	6:2 7:4	130 176	0.5946	234-235; 2346-236	0.130	0.101
82	27.89	6:2	138 163 164	0.5995	234-245; 2356-34; 236-345	1.384	1.070
83	28.07	6:2	158 160 186	0.6034	2346-34; 23456-3; 23456-26	0.122	0.095
84	28.29	6:2	126 129	0.6081	345-34; 2345-23	0.004	0.003
85	28.62	7:3	166 178	0.6152	23456-4; 2356-235	0.642	0.453
87	28.93	7:3	175 159	0.6219	2346-235; 2345-35	0.104	0.073
88	29.07	7:3	182 187	0.6249	2345-246; 2356-245	2.038	1.439
89	29.20	6:2	128 162	0.6277	234-234; 235-345	0.052	0.040
90	29.38	7:3	183	0.6316	2346-245	0.927	0.654
91	29.65	6:1	167	0.6374	245-345	0.021	0.016
92	29.99	7:3	185	0.6447	23456-25	0.283	0.200
93	30.36	7:3	174 181	0.6526	2345-236; 23456-24	1.775	1.256
94	30.63	7:3	177	0.6584	2356-234	0.954	0.675
95	30.93	6:1 7:3	156 171	0.6649	2345-34; 2346-234	0.431	0.314
96	31.19	8:4	157 202	0.6705	234-345; 2356-2356	0.043	0.028
98	31.36	7:3	173	0.6741	23456-23	0.018	0.013
99	31.74	8:4	201	0.6823	2346-2356	0.241	0.157
100	31.98	7:2	172 204	0.6874	2345-235; 23456-246	0.323	0.228
101	32.28	8:4	192 197	0.6939	23456-35; 2346-2346	0.068	0.044
102	32.46	7:2	180	0.6978	2345-245	3.344	2.360
103	32.70	7:2	193	0.7029	2356-345	0.252	0.178
104	33.03	7:2	191	0.7100	2346-345	0.081	0.057

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.37	8:4	<b>200</b> 169	0.7173	23456-236; 345-345	0.275	0.179
106	34.52	7:2	<b>170</b>	0.7420	2345-234	0.683	0.482
107	34.79	7:2	<b>190</b>	0.7479	23456-34	0.243	0.172
108	35.65	8:3	<b>198</b>	0.7663	23456-235	0.085	0.055
109	35.90	8:3	<b>199</b>	0.7717	2345-2356	2.554	1.658
110	36.44	8:3	<b>196</b> <b>203</b>	0.7833	2345-2346; 23456-245	2.491	1.617
111	37.60	7:1	<b>189</b>	0.8083	2345-345	0.015	0.010
112	39.16	8:3	<b>195</b>	0.8418	23456-234	0.313	0.203
113	39.69	9:4	<b>208</b>	0.8532	23456-2356	0.202	0.121
114	40.65	9:4	<b>207</b>	0.8738	23456-2346	0.064	0.039
115	42.05	8:2	<b>194</b>	0.9039	2345-2345	1.011	0.656
116	42.95	8:2	<b>205</b>	0.9233	23456-345	0.058	0.038
117	48.08	9:3	<b>206</b>	1.034	23456-2345	0.430	0.259
118	54.17	10:4	<b>209</b>	1.164	23456-23456	0.002	0.001

Concentration = 117 ng/mL

Total Nanomoles = 0.419

Average Molecular Weight = 279.0

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

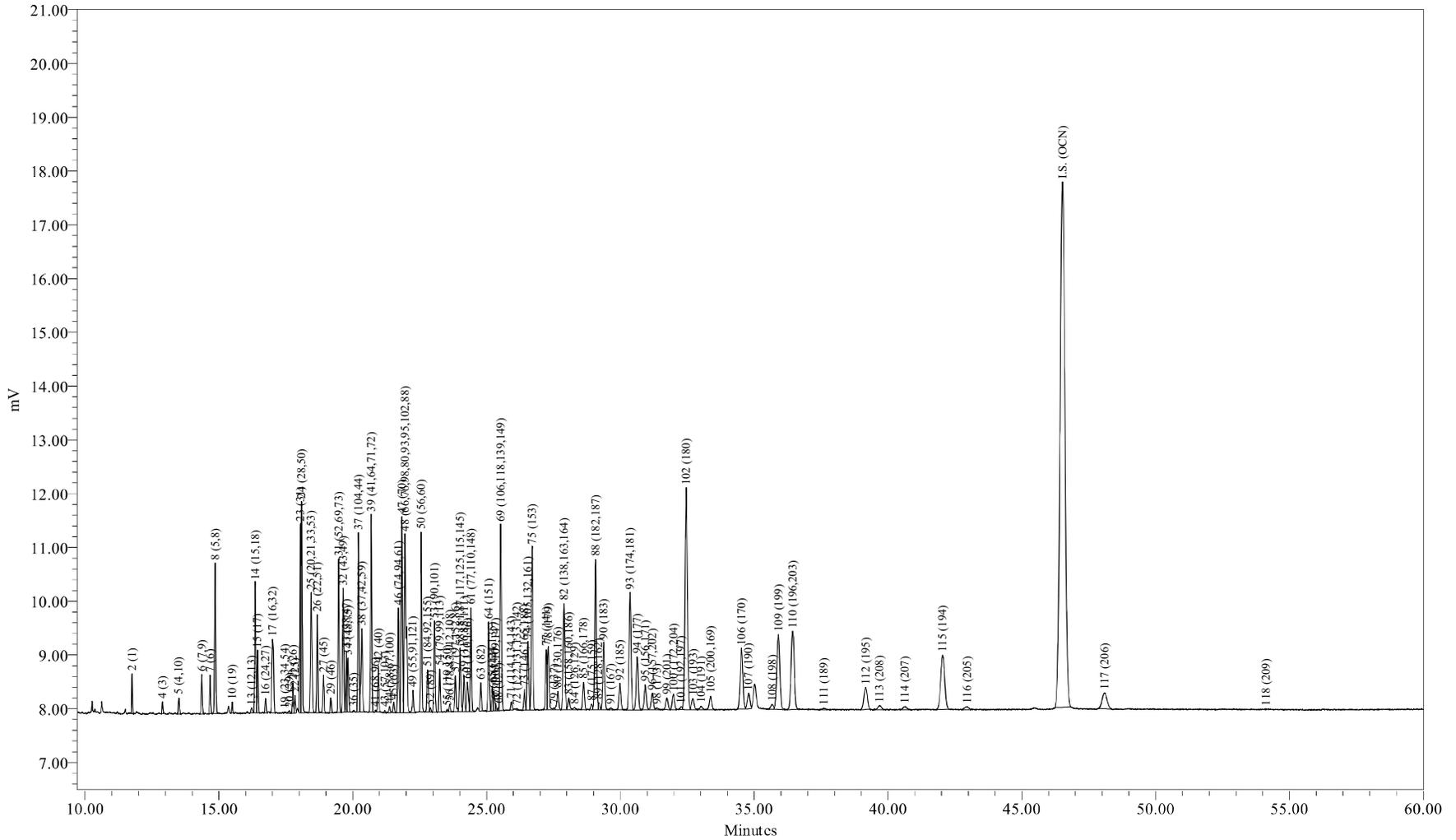
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Sample Name: CCCS0728A  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 7/28/2009 11:11:30 AM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_062409  
 LIMS File ID: GC25-128-23

Sample Name: CCCS0728A

1 of 1

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 11:11:30  
 Lab Sample ID: CCCS0728A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-128-23

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 116 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.72	17.33
Di	12.73	15.84
Tri	18.05	19.55
Tetra	21.30	20.41
Penta	8.27	7.03
Hexa	7.56	5.89
Hepta	12.72	8.99
Octa	7.03	4.56
Nona	0.64	0.39
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	8.0267	39.6	32.5
A1242	23+24/31+28	5.8207	28.7	23.5
A1254SED	61/100	1.4458	7.13	
A1254BIO	69+75+82/149+153+138	5.8937		23.8
A1260	102/180	3.8367	18.9	15.5
A1268	115/194	1.1535	5.69	4.66

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 2.07

Total Cl / biphenyl Residue = 3.63

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 11:11:30  
 Lab Sample ID: CCCS0728A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-128-23

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.76	188.7	1349	8.03	42.5			
3	12.78	188.7		-	-			
4	12.89	188.7	471	5.54	29.3			
5	13.50	223.1	868	2.34	10.5			
6	14.36	223.1	2147	0.752	3.37			
7	14.67	223.1	1688	1.23	5.52			
8	14.86	223.1	7203	9.53	42.7			
9	15.42	223.1		-	-			
10	15.50	257.5	461	0.217	0.843			
11	15.97	257.5		-	-			
12	16.03	223.1		-	-			
13	16.23	223.1	353	0.165	0.740			
14	16.36	249.0	6897	2.89	11.6			
15	16.45	257.5	3077	2.77	10.7			
16	16.75	257.5	726	0.210	0.817			
17	17.00	257.5	5892	2.93	11.4			
19	17.46	267.9	82	0.0321	0.120			
20	17.64	257.5	185	0.0469	0.182			
21	17.76	257.5	1579	0.592	2.30			
22	17.84	257.5	911	0.252	0.980			
23	18.04	257.5	9479	2.83	11.0			
24	18.09	257.5	10935	2.99	11.6			
25	18.45	259.5	8160	2.87	11.1			
26	18.68	258.7	5373	1.98	7.66			
27	18.91	292.0	2048	0.702	2.40			
28	19.04	257.5		-	-			
29	19.18	292.0	774	0.300	1.03			
30	19.31	257.5		-	-			
31	19.48	292.0	8455	3.80	13.0			
32	19.64	292.0	6968	1.56	5.36			
33	19.76	292.0	3364	0.531	1.82			
34	19.82	292.0	3020	0.690	2.36			
35	19.96	292.0		-	-			
36	20.03	257.5	75	0.0407	0.158			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.21	292.0	10302	3.01	10.3			
38	20.35	272.4	5970	2.09	7.69			
39	20.69	292.0	11523	2.57	8.79			
41	20.85	326.4	127	0.0472	0.144			
42	20.96	292.0	2559	0.714	2.44			
43	21.20	298.9	139	0.0367	0.123			
44	21.38	298.9	409	0.0790	0.264			
45	21.54	292.0	634	0.126	0.431			
46	21.70	292.0	6270	0.943	3.23			
47	21.84	292.0	11687	2.22	7.59			
48	21.95	293.5	15700	4.48	15.3			
49	22.25	324.7	1514	0.394	1.21			
50	22.56	292.0	10484	1.95	6.69			
51	22.80	326.4	2967	1.54	4.71			
52	22.90	326.4	260	0.0678	0.208			
53	23.06	326.4	5546	1.28	3.93			
54	23.25	326.4	2625	0.396	1.21			
55	23.53	326.4	136	0.0131	0.0401			
56	23.63	326.4	468	0.124	0.379			
57	23.84	326.4	2292	0.407	1.25			
58	24.01	326.4	4021	0.817	2.50			
59	24.16	326.4	2171	0.368	1.13			
60	24.29	360.9	2132	0.449	1.25			
61	24.42	326.4	6293	1.45	4.43			
62	24.69	360.9	-	-	-			
63	24.79	326.4	1619	0.296	0.906			
64	25.08	360.9	5432	1.14	3.15			
65	25.22	350.5	1480	0.186	0.532			
66	25.27	360.9	1186	0.396	1.10			
67	25.34	336.8	378	0.0786	0.233			
68	25.46	326.4	144	0.0291	0.0892			
69	25.53	337.5	12907	2.47	7.32			
70	25.64	360.9	-	-	-			
71	25.93	347.8	572	0.102	0.293			
72	26.13	336.8	93	0.00936	0.0278			
73	26.42	360.9	1336	0.227	0.628			
74	26.55	347.8	5705	0.802	2.31			
75	26.70	360.9	11588	1.82	5.04			
76	26.81	360.9	-	-	-			
77	27.24	360.9	4162	1.03	2.85			
78	27.31	395.3	4831	1.01	2.57			
79	27.52	360.9	127	0.0242	0.0672			
80	27.67	360.9	1628	0.146	0.406			
82	27.89	360.9	9795	1.60	4.45			
83	28.07	360.9	1026	0.143	0.397			
84	28.29	360.9	249	0.00800	0.0222			
85	28.62	395.3	2240	0.720	1.82			
87	28.93	395.3	453	0.115	0.292			
88	29.07	395.3	13603	2.37	5.99			
89	29.19	360.9	474	0.0551	0.153			
90	29.38	395.3	5869	1.06	2.68			
91	29.64	360.9	142	0.0161	0.0447			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.98	394.3	2435	0.313	0.794			
93	30.36	394.3	11552	2.07	5.24			
94	30.63	394.3	5349	1.09	2.78			
95	30.93	382.2	2557	0.487	1.27			
96	31.20	429.8	1758	0.0496	0.115			
98	31.37	395.3	217	0.0304	0.0769			
99	31.74	429.8	1252	0.271	0.631			
100	31.99	395.3	1683	0.358	0.905			
101	32.27	429.8	255	0.0598	0.139			
102	32.46	395.3	25154	3.84	9.71			
103	32.71	395.3	1360	0.283	0.716			
104	33.02	395.3	467	0.0978	0.247			
105	33.37	429.8	1630	0.308	0.718			
106	34.52	395.3	7710	0.779	1.97			
107	34.79	395.3	2029	0.258	0.652			
108	35.67	429.8	586	0.0826	0.192			
109	35.90	429.8	10750	2.90	6.76			
110	36.43	429.8	11819	2.87	6.67			
111	37.60	395.3	233	0.0249	0.0629			
112	39.17	429.8	3706	0.353	0.822			
113	39.68	464.2	737	0.199	0.429			
114	40.63	464.2	566	0.0796	0.171			
115	42.04	429.8	10438	1.15	2.68			
116	42.96	429.8	559	0.0844	0.196			
117	48.09	464.2	3731	0.466	1.00			
118	54.13	498.6	9	0.00101	0.00203			

Total Concentration = 116 ng/mL

Total Nanomoles = 0.415

Average Molecular Weight = 279.1

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.52 minutes

Internal Standard Peak Area = 123532.1

Northeast Analytical, Inc.  
2190 Technology Drive  
Schenectady, NY 12308  
(518) 346-4592 Fax (518) 381-6055

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 11:11:30  
 Lab Sample ID: CCCS0728A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-128-23

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	6.935	10.258
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003	0.2771	4	4.782	7.074
5	13.50	2:2	004 010	0.2902	2-2; 26	2.018	2.525
6	14.36	2:1	007 009	0.3087	24; 25	0.649	0.812
7	14.67	2:1	006	0.3153	2-3	1.064	1.331
8	14.86	2:1	005 008	0.3194	23; 2-4	8.233	10.300
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3332	26-2	0.188	0.203
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013	0.3489	34; 3-4	0.143	0.179
14	16.36	2:0 3:2	015 018	0.3517	4-4; 25-2	2.497	2.800
15	16.45	3:2	017	0.3536	24-2	2.391	2.592
16	16.75	3:2	024 027	0.3601	236; 26-3	0.182	0.197
17	17.00	3:2	016 032	0.3654	23-2; 26-4	2.531	2.744
19	17.46	3:1 4:4	023 034 054	0.3753	235; 35-2; 26-26	0.028	0.029
20	17.64	3:1	029	0.3792	245	0.041	0.044
21	17.76	3:1	026	0.3818	25-3	0.511	0.554
22	17.84	3:1	025	0.3835	24-3	0.218	0.236
23	18.04	3:1	031	0.3878	25-4	2.442	2.648
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	2.586	2.804
25	18.45	3:1 4:3	020 021 033 053	0.3966	23-3; 234; 34-2; 25-26	2.483	2.670
26	18.68	3:1 4:3	022 051	0.4015	23-4; 24-26	1.712	1.847
27	18.91	4:3	045	0.4065	236-2	0.607	0.580
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046	0.4123	23-26	0.260	0.248
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4187	25-25; 246-3; 26-35	3.285	3.141
32	19.64	4:2	043 049	0.4222	235-2; 24-25	1.352	1.292
33	19.76	4:2	038 047	0.4248	345; 24-24	0.459	0.439
34	19.82	4:2	048 075	0.4261	245-2; 246-4	0.596	0.570
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.03	3:0	035	0.4306	34-3	0.035	0.038
37	20.21	5:4 4:2	104 044	0.4344	246-26; 23-25	2.602	2.487
38	20.35	3:0 4:2	037 042 059	0.4374	34-4; 23-24; 236-3	1.809	1.854

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	041 064 071 072	0.4448	234-2; 236-4; 26-34; 25-35	2.217	2.120
41	20.85	5:4	068 096	0.4482	24-35; 236-26	0.041	0.035
42	20.96	4:2	040	0.4506	23-23	0.617	0.590
43	21.20	4:1 5:3	057 103	0.4557	235-3; 246-25	0.032	0.030
44	21.38	4:1 5:3	058 067 100	0.4596	23-35; 245-3; 246-24	0.068	0.064
45	21.54	4:1	063	0.4630	235-4	0.109	0.104
46	21.70	4:1 5:3	074 094 061	0.4665	245-4; 235-26; 2345	0.815	0.779
47	21.84	4:1	070	0.4695	25-34	1.915	1.831
48	21.95	4:1 5:3	066 076 098 080 093 095 102 088	0.4718	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.868	3.679
49	22.25	4:1 5:3	055 091 121	0.4783	234-3; 236-24; 246-35	0.340	0.292
50	22.56	4:1	056 060	0.4850	23-34; 234-4	1.688	1.614
51	22.80	5:3 6:4	084 092 155	0.4901	236-23; 235-25; 246-246	1.329	1.137
52	22.90	5:3	089	0.4923	234-26	0.059	0.050
53	23.06	5:2	090 101	0.4957	235-24; 245-25	1.107	0.947
54	23.25	5:2	079 099 113	0.4998	34-35; 245-24; 236-35	0.342	0.292
55	23.53	5:2 6:4	119 150	0.5058	246-34; 236-246	0.011	0.010
56	23.63	5:2	078 083 112 108	0.5080	345-3; 235-23; 2356-3; 2346-3	0.107	0.091
57	23.84	5:2 6:4	097 152 086	0.5125	245-23; 2356-26; 2345-2	0.352	0.301
58	24.01	5:2	081 087 117 125 115 145	0.5161	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.705	0.603
59	24.16	5:2	116 085 111	0.5193	23456; 234-24; 235-35	0.318	0.272
60	24.29	6:4	120 136	0.5221	245-35; 236-236	0.388	0.300
61	24.42	5:2	077 110 148	0.5249	34-34; 236-34; 235-246	1.249	1.068
62	24.69	6:3	154		245-246	-	-
63	24.79	5:2	082	0.5329	234-23	0.255	0.218
64	25.08	6:3	151	0.5391	2356-25	0.981	0.759
65	25.22	5:1 6:3	124 135	0.5421	345-25; 235-236	0.161	0.128
66	25.27	6:3	144	0.5432	2346-25	0.342	0.265
67	25.34	5:1 6:3	107 109 147	0.5447	234-35; 235-34; 2356-24	0.068	0.056
68	25.46	5:1	123	0.5473	345-24	0.025	0.022
69	25.53	5:1 6:3	106 118 139 149	0.5488	2345-3; 245-34; 2346-24; 236-245	2.135	1.766
70	25.64	6:3	140		234-246	-	-
71	25.93	5:1 6:3	114 134 143	0.5574	2345-4; 2356-23; 2345-26	0.088	0.071
72	26.13	5:1 6:3	122 131 133 142	0.5617	345-23; 2346-23; 235-235; 23456-2	0.008	0.007
73	26.42	6:2	146 165 188	0.5679	235-245; 2356-35; 2356-246	0.196	0.151
74	26.55	5:1 6:3	105 132 161	0.5707	234-34; 234-236; 2346-35	0.693	0.556
75	26.70	6:2	153	0.5739	245-245	1.570	1.214
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	141	0.5856	2345-25	0.890	0.688
78	27.31	7:4	179	0.5871	2356-236	0.876	0.619
79	27.52	6:2	137	0.5916	2345-24	0.021	0.016
80	27.67	6:2 7:4	130 176	0.5948	234-235; 2346-236	0.126	0.098
82	27.89	6:2	138 163 164	0.5995	234-245; 2356-34; 236-345	1.386	1.072
83	28.07	6:2	158 160 186	0.6034	2346-34; 23456-3; 23456-26	0.124	0.096
84	28.29	6:2	126 129	0.6081	345-34; 2345-23	0.007	0.005
85	28.62	7:3	166 178	0.6152	23456-4; 2356-235	0.622	0.440
87	28.93	7:3	175 159	0.6219	2346-235; 2345-35	0.100	0.070
88	29.07	7:3	182 187	0.6249	2345-246; 2356-245	2.046	1.445
89	29.19	6:2	128 162	0.6275	234-234; 235-345	0.048	0.037
90	29.38	7:3	183	0.6316	2346-245	0.915	0.646
91	29.64	6:1	167	0.6371	245-345	0.014	0.011
92	29.98	7:3	185	0.6445	23456-25	0.270	0.191
93	30.36	7:3	174 181	0.6526	2345-236; 23456-24	1.785	1.263
94	30.63	7:3	177	0.6584	2356-234	0.946	0.669
95	30.93	6:1 7:3	156 171	0.6649	2345-34; 2346-234	0.421	0.307
96	31.20	8:4	157 202	0.6707	234-345; 2356-2356	0.043	0.028
98	31.37	7:3	173	0.6743	23456-23	0.026	0.019
99	31.74	8:4	201	0.6823	2346-2356	0.234	0.152
100	31.99	7:2	172 204	0.6877	2345-235; 23456-246	0.309	0.218
101	32.27	8:4	192 197	0.6937	23456-35; 2346-2346	0.052	0.034
102	32.46	7:2	180	0.6978	2345-245	3.315	2.341
103	32.71	7:2	193	0.7031	2356-345	0.245	0.173
104	33.02	7:2	191	0.7098	2346-345	0.084	0.060

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.37	8:4	<b>200</b> 169	0.7173	23456-236; 345-345	0.266	0.173
106	34.52	7:2	<b>170</b>	0.7420	2345-234	0.673	0.475
107	34.79	7:2	<b>190</b>	0.7479	23456-34	0.223	0.157
108	35.67	8:3	<b>198</b>	0.7668	23456-235	0.071	0.046
109	35.90	8:3	<b>199</b>	0.7717	2345-2356	2.509	1.629
110	36.43	8:3	<b>196</b> <b>203</b>	0.7831	2345-2346; 23456-245	2.475	1.608
111	37.60	7:1	<b>189</b>	0.8083	2345-345	0.021	0.015
112	39.17	8:3	<b>195</b>	0.8420	23456-234	0.305	0.198
113	39.68	9:4	<b>208</b>	0.8530	23456-2356	0.172	0.103
114	40.63	9:4	<b>207</b>	0.8734	23456-2346	0.069	0.041
115	42.04	8:2	<b>194</b>	0.9037	2345-2345	0.997	0.647
116	42.96	8:2	<b>205</b>	0.9235	23456-345	0.073	0.047
117	48.09	9:3	<b>206</b>	1.034	23456-2345	0.403	0.242
118	54.13	10:4	<b>209</b>	1.164	23456-23456	0.001	0.000

Concentration = 116 ng/mL

Total Nanomoles = 0.415

Average Molecular Weight = 279.1

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

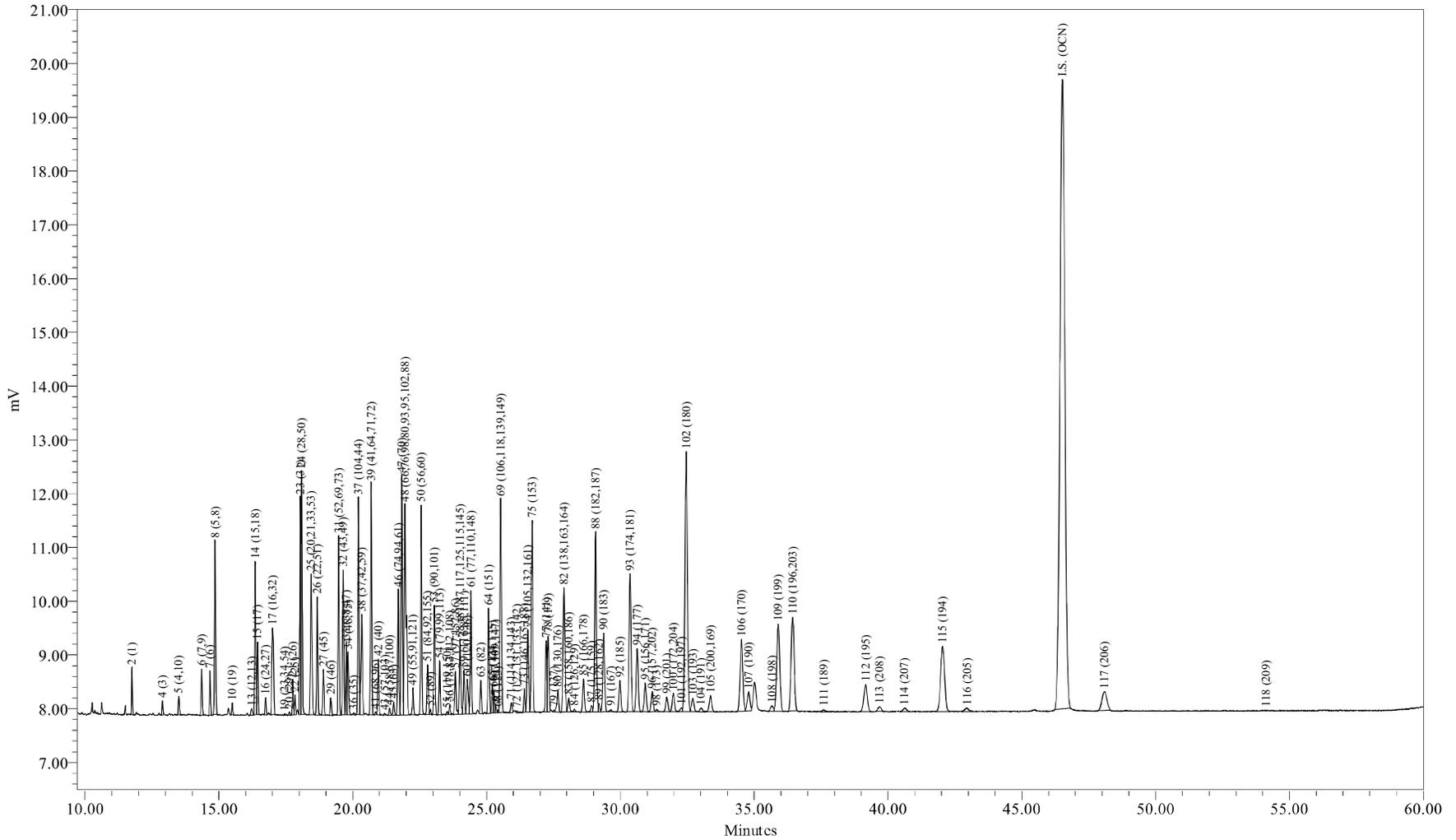
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Sample Name: CCCS0728B  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 7/28/2009 6:50:12 PM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_062409  
 LIMS File ID: GC25-129-7

Sample Name: CCCS0728B

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 18:50:12  
 Lab Sample ID: CCCS0728B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-129-7

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 114 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.83	17.51
Di	12.41	15.46
Tri	18.03	19.54
Tetra	21.34	20.47
Penta	8.29	7.05
Hexa	7.63	5.95
Hepta	12.83	9.08
Octa	7.04	4.58
Nona	0.59	0.36
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.9253	39.5	32.4
A1242	23+24/31+28	5.6959	28.4	23.3
A1254SED	61/100	1.4250	7.11	
A1254BIO	69+75+82/149+153+138	5.8144		23.8
A1260	102/180	3.8362	19.1	15.7
A1268	115/194	1.1703	5.84	4.79

Ortho Cl / biphenyl Residue = 1.55

Meta + Para Cl / biphenyl Residue = 2.08

Total Cl / biphenyl Residue = 3.63

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/28/2009 18:50:12  
 Lab Sample ID: CCCS0728B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-129-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.76	188.7	1594	7.93	42.0			
3	12.78	188.7		-	-			
4	12.89	188.7	561	5.51	29.2			
5	13.50	223.1	941	2.12	9.49			
6	14.36	223.1	2472	0.723	3.24			
7	14.67	223.1	1972	1.20	5.39			
8	14.86	223.1	8299	9.17	41.1			
9	15.42	223.1		-	-			
10	15.50	257.5	551	0.217	0.843			
11	15.97	257.5		-	-			
12	16.03	223.1		-	-			
13	16.23	223.1	448	0.175	0.786			
14	16.36	249.0	8075	2.83	11.4			
15	16.45	257.5	3587	2.70	10.5			
16	16.75	257.5	836	0.203	0.787			
17	17.00	257.5	6876	2.86	11.1			
19	17.46	267.9	103	0.0338	0.126			
20	17.63	257.5	170	0.0360	0.140			
21	17.76	257.5	1835	0.575	2.23			
22	17.84	257.5	1013	0.234	0.910			
23	18.04	257.5	10947	2.73	10.6			
24	18.09	257.5	12967	2.97	11.5			
25	18.45	259.5	9625	2.83	10.9			
26	18.68	258.7	6373	1.96	7.59			
27	18.91	292.0	2387	0.684	2.34			
28	19.04	257.5		-	-			
29	19.18	292.0	951	0.309	1.06			
30	19.31	257.5		-	-			
31	19.48	292.0	9881	3.71	12.7			
32	19.64	292.0	8188	1.54	5.26			
33	19.76	292.0	3997	0.528	1.81			
34	19.82	292.0	3590	0.686	2.35			
35	19.96	292.0		-	-			
36	20.04	257.5	124	0.0568	0.221			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.22	292.0	12142	2.97	10.2			
38	20.34	272.4	7100	2.08	7.64			
39	20.69	292.0	13624	2.54	8.69			
41	20.86	326.4	148	0.0459	0.141			
42	20.96	292.0	3071	0.716	2.45			
43	21.20	298.9	83	0.0183	0.0611			
44	21.37	298.9	478	0.0772	0.258			
45	21.53	292.0	741	0.123	0.421			
46	21.70	292.0	7341	0.923	3.16			
47	21.84	292.0	13772	2.18	7.48			
48	21.95	293.5	18350	4.37	14.9			
49	22.25	324.7	1670	0.363	1.12			
50	22.56	292.0	12377	1.93	6.60			
51	22.80	326.4	3445	1.49	4.57			
52	22.91	326.4	251	0.0549	0.168			
53	23.05	326.4	6468	1.25	3.83			
54	23.25	326.4	3136	0.395	1.21			
55	23.53	326.4	196	0.0158	0.0485			
56	23.62	326.4	565	0.125	0.382			
57	23.84	326.4	2756	0.409	1.25			
58	24.01	326.4	4826	0.819	2.51			
59	24.16	326.4	2626	0.372	1.14			
60	24.28	360.9	2582	0.455	1.26			
61	24.41	326.4	7421	1.42	4.37			
62	24.69	360.9	-	-	-			
63	24.78	326.4	1972	0.301	0.922			
64	25.08	360.9	6376	1.11	3.09			
65	25.22	350.5	1778	0.187	0.534			
66	25.28	360.9	1353	0.378	1.05			
67	25.33	336.8	458	0.0797	0.237			
68	25.42	326.4	136	0.0230	0.0703			
69	25.53	337.5	15241	2.44	7.23			
70	25.64	360.9	-	-	-			
71	25.93	347.8	754	0.112	0.323			
72	26.13	336.8	149	0.0123	0.0365			
73	26.42	360.9	1557	0.221	0.612			
74	26.55	347.8	6772	0.796	2.29			
75	26.70	360.9	13601	1.78	4.94			
76	26.81	360.9	-	-	-			
77	27.23	360.9	5086	1.05	2.92			
78	27.30	395.3	5414	0.950	2.40			
79	27.52	360.9	161	0.0256	0.0710			
80	27.67	360.9	1912	0.144	0.398			
82	27.89	360.9	11629	1.59	4.41			
83	28.07	360.9	1198	0.140	0.388			
84	28.28	360.9	216	0.00578	0.0160			
85	28.62	395.3	2790	0.750	1.90			
87	28.93	395.3	526	0.112	0.283			
88	29.07	395.3	16065	2.34	5.91			
89	29.20	360.9	581	0.0564	0.156			
90	29.38	395.3	7010	1.06	2.67			
91	29.65	360.9	156	0.0148	0.0410			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.98	394.3	2995	0.322	0.816			
93	30.36	394.3	13615	2.03	5.16			
94	30.63	394.3	6286	1.08	2.73			
95	30.93	382.2	3005	0.478	1.25			
96	31.19	429.8	2045	0.0483	0.112			
98	31.35	395.3	212	0.0249	0.0630			
99	31.73	429.8	1463	0.265	0.617			
100	31.98	395.3	2003	0.356	0.901			
101	32.29	429.8	375	0.0741	0.172			
102	32.46	395.3	30087	3.84	9.70			
103	32.71	395.3	1500	0.261	0.660			
104	33.01	395.3	462	0.0808	0.205			
105	33.37	429.8	1815	0.287	0.668			
106	34.52	395.3	9275	0.783	1.98			
107	34.79	395.3	2511	0.267	0.675			
108	35.67	429.8	695	0.0819	0.191			
109	35.89	429.8	12616	2.85	6.63			
110	36.44	429.8	13793	2.79	6.50			
111	37.60	395.3	309	0.0275	0.0696			
112	39.17	429.8	4450	0.354	0.824			
113	39.68	464.2	680	0.153	0.331			
114	40.61	464.2	523	0.0614	0.132			
115	42.04	429.8	12668	1.17	2.72			
116	42.96	429.8	605	0.0763	0.178			
117	48.08	464.2	4396	0.459	0.989			
118	54.13	498.6	12	0.00111	0.00223			

Total Concentration = 114 ng/mL

Total Nanomoles = 0.407

Average Molecular Weight = 279.3

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 147776.0

Northeast Analytical, Inc.  
2190 Technology Drive  
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(518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
Sample Description: CCC Std 122 ng/mL  
Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
Date Acquired: 07/28/2009 18:50:12  
Lab Sample ID: CCCS0728B  
LRF ID: CCC Std 122 ng/mL  
Lab File ID: GC25-129-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	6.979	10.331
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003	0.2771	4	4.848	7.177
5	13.50	2:2	004 010	0.2903	2-2; 26	1.864	2.334
6	14.36	2:1	007 009	0.3088	24; 25	0.637	0.797
7	14.67	2:1	006	0.3154	2-3	1.058	1.325
8	14.86	2:1	005 008	0.3195	23; 2-4	8.078	10.114
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	0.191	0.207
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013	0.3490	34; 3-4	0.154	0.193
14	16.36	2:0 3:2	015 018	0.3518	4-4; 25-2	2.491	2.794
15	16.45	3:2	017	0.3537	24-2	2.375	2.576
16	16.75	3:2	024 027	0.3601	236; 26-3	0.178	0.193
17	17.00	3:2	016 032	0.3655	23-2; 26-4	2.516	2.730
19	17.46	3:1 4:4	023 034 054	0.3754	235; 35-2; 26-26	0.030	0.031
20	17.63	3:1	029	0.3791	245	0.032	0.034
21	17.76	3:1	026	0.3819	25-3	0.506	0.549
22	17.84	3:1	025	0.3836	24-3	0.206	0.224
23	18.04	3:1	031	0.3879	25-4	2.403	2.606
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	2.613	2.834
25	18.45	3:1 4:3	020 021 033 053	0.3967	23-3; 234; 34-2; 25-26	2.495	2.685
26	18.68	3:1 4:3	022 051	0.4016	23-4; 24-26	1.730	1.868
27	18.91	4:3	045	0.4066	236-2	0.602	0.576
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046	0.4124	23-26	0.272	0.260
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4188	25-25; 246-3; 26-35	3.271	3.129
32	19.64	4:2	043 049	0.4223	235-2; 24-25	1.353	1.295
33	19.76	4:2	038 047	0.4249	345; 24-24	0.465	0.445
34	19.82	4:2	048 075	0.4261	245-2; 246-4	0.604	0.578
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035	0.4309	34-3	0.050	0.054
37	20.22	5:4 4:2	104 044	0.4347	246-26; 23-25	2.612	2.499
38	20.34	3:0 4:2	037 042 059	0.4373	34-4; 23-24; 236-3	1.833	1.879

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	041 064 071 072	0.4449	234-2; 236-4; 26-34; 25-35	2.233	2.136
41	20.86	5:4	068 096	0.4485	24-35; 236-26	0.040	0.035
42	20.96	4:2	040	0.4507	23-23	0.631	0.603
43	21.20	4:1 5:3	057 103	0.4558	235-3; 246-25	0.016	0.015
44	21.37	4:1 5:3	058 067 100	0.4595	23-35; 245-3; 246-24	0.068	0.064
45	21.53	4:1	063	0.4629	235-4	0.108	0.104
46	21.70	4:1 5:3	074 094 061	0.4666	245-4; 235-26; 2345	0.813	0.777
47	21.84	4:1	070	0.4696	25-34	1.923	1.839
48	21.95	4:1 5:3	066 076 098 080 093 095 102 088	0.4719	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.851	3.665
49	22.25	4:1 5:3	055 091 121	0.4784	234-3; 236-24; 246-35	0.320	0.275
50	22.56	4:1	056 060	0.4851	23-34; 234-4	1.698	1.624
51	22.80	5:3 6:4	084 092 155	0.4902	236-23; 235-25; 246-246	1.315	1.125
52	22.91	5:3	089	0.4926	234-26	0.048	0.041
53	23.05	5:2	090 101	0.4956	235-24; 245-25	1.100	0.941
54	23.25	5:2	079 099 113	0.4999	34-35; 245-24; 236-35	0.348	0.298
55	23.53	5:2 6:4	119 150	0.5059	246-34; 236-246	0.014	0.012
56	23.62	5:2	078 083 112 108	0.5078	345-3; 235-23; 2356-3; 2346-3	0.110	0.094
57	23.84	5:2 6:4	097 152 086	0.5126	245-23; 2356-26; 2345-2	0.360	0.308
58	24.01	5:2	081 087 117 125 115 145	0.5162	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.721	0.617
59	24.16	5:2	116 085 111	0.5195	23456; 234-24; 235-35	0.327	0.280
60	24.28	6:4	120 136	0.5220	245-35; 236-236	0.401	0.310
61	24.41	5:2	077 110 148	0.5248	34-34; 236-34; 235-246	1.255	1.074
62	24.69	6:3	154		245-246	-	-
63	24.78	5:2	082	0.5328	234-23	0.265	0.227
64	25.08	6:3	151	0.5392	2356-25	0.981	0.759
65	25.22	5:1 6:3	124 135	0.5422	345-25; 235-236	0.165	0.131
66	25.28	6:3	144	0.5435	2346-25	0.332	0.257
67	25.33	5:1 6:3	107 109 147	0.5446	234-35; 235-34; 2356-24	0.070	0.058
68	25.42	5:1	123	0.5465	345-24	0.020	0.017
69	25.53	5:1 6:3	106 118 139 149	0.5489	2345-3; 245-34; 2346-24; 236-245	2.148	1.778
70	25.64	6:3	140		234-246	-	-
71	25.93	5:1 6:3	114 134 143	0.5575	2345-4; 2356-23; 2345-26	0.099	0.079
72	26.13	5:1 6:3	122 131 133 142	0.5618	345-23; 2346-23; 235-235; 23456-2	0.011	0.009
73	26.42	6:2	146 165 188	0.5680	235-245; 2356-35; 2356-246	0.194	0.150
74	26.55	5:1 6:3	105 132 161	0.5708	234-34; 234-236; 2346-35	0.701	0.563
75	26.70	6:2	153	0.5741	245-245	1.570	1.215
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.23	6:2	141	0.5855	2345-25	0.927	0.717
78	27.30	7:4	179	0.5870	2356-236	0.837	0.591
79	27.52	6:2	137	0.5917	2345-24	0.023	0.017
80	27.67	6:2 7:4	130 176	0.5949	234-235; 2346-236	0.127	0.098
82	27.89	6:2	138 163 164	0.5997	234-245; 2356-34; 236-345	1.402	1.085
83	28.07	6:2	158 160 186	0.6035	2346-34; 23456-3; 23456-26	0.123	0.095
84	28.28	6:2	126 129	0.6080	345-34; 2345-23	0.005	0.004
85	28.62	7:3	166 178	0.6154	23456-4; 2356-235	0.660	0.467
87	28.93	7:3	175 159	0.6220	2346-235; 2345-35	0.098	0.070
88	29.07	7:3	182 187	0.6250	2345-246; 2356-245	2.058	1.455
89	29.20	6:2	128 162	0.6278	234-234; 235-345	0.050	0.038
90	29.38	7:3	183	0.6317	2346-245	0.931	0.658
91	29.65	6:1	167	0.6375	245-345	0.013	0.010
92	29.98	7:3	185	0.6446	23456-25	0.283	0.201
93	30.36	7:3	174 181	0.6528	2345-236; 23456-24	1.792	1.269
94	30.63	7:3	177	0.6586	2356-234	0.947	0.671
95	30.93	6:1 7:3	156 171	0.6650	2345-34; 2346-234	0.421	0.308
96	31.19	8:4	157 202	0.6706	234-345; 2356-2356	0.042	0.028
98	31.35	7:3	173	0.6740	23456-23	0.022	0.015
99	31.73	8:4	201	0.6822	2346-2356	0.233	0.152
100	31.98	7:2	172 204	0.6876	2345-235; 23456-246	0.313	0.222
101	32.29	8:4	192 197	0.6943	23456-35; 2346-2346	0.065	0.042
102	32.46	7:2	180	0.6979	2345-245	3.378	2.387
103	32.71	7:2	193	0.7033	2356-345	0.230	0.162
104	33.01	7:2	191	0.7097	2346-345	0.071	0.050

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.37	8:4	<b>200</b> 169	0.7175	23456-236; 345-345	0.253	0.164
106	34.52	7:2	<b>170</b>	0.7422	2345-234	0.690	0.487
107	34.79	7:2	<b>190</b>	0.7480	23456-34	0.235	0.166
108	35.67	8:3	<b>198</b>	0.7669	23456-235	0.072	0.047
109	35.89	8:3	<b>199</b>	0.7717	2345-2356	2.508	1.630
110	36.44	8:3	<b>196</b> <b>203</b>	0.7835	2345-2346; 23456-245	2.461	1.599
111	37.60	7:1	<b>189</b>	0.8084	2345-345	0.024	0.017
112	39.17	8:3	<b>195</b>	0.8422	23456-234	0.312	0.203
113	39.68	9:4	<b>208</b>	0.8531	23456-2356	0.135	0.081
114	40.61	9:4	<b>207</b>	0.8731	23456-2346	0.054	0.033
115	42.04	8:2	<b>194</b>	0.9039	2345-2345	1.031	0.670
116	42.96	8:2	<b>205</b>	0.9237	23456-345	0.067	0.044
117	48.08	9:3	<b>206</b>	1.034	23456-2345	0.404	0.243
118	54.13	10:4	<b>209</b>	1.164	23456-23456	0.001	0.001

Concentration = 114 ng/mL

Total Nanomoles = 0.407

Average Molecular Weight = 279.3

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

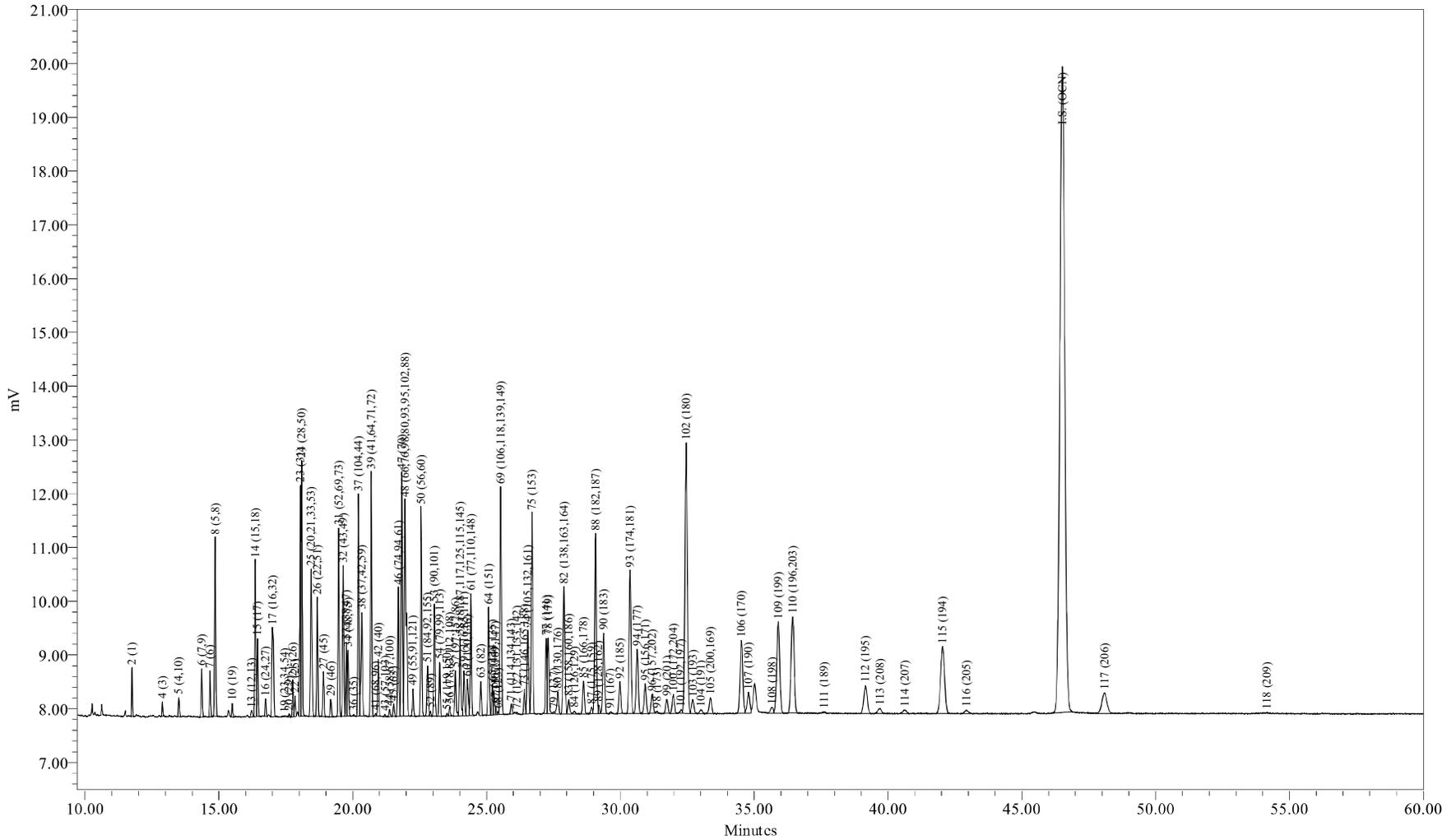
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Sample Name: CCCS0728C  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 7/29/2009 5:45:14 AM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_062409  
 LIMS File ID: GC25-129-17

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 05:45:14  
 Lab Sample ID: CCCS0728C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-129-17

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 114 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.66	17.26
Di	12.57	15.67
Tri	18.06	19.58
Tetra	21.28	20.43
Penta	8.29	7.06
Hexa	7.60	5.93
Hepta	12.80	9.06
Octa	7.07	4.60
Nona	0.68	0.41
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	8.0068	39.8	32.7
A1242	23+24/31+28	5.7274	28.4	23.4
A1254SED	61/100	1.4293	7.10	
A1254BIO	69+75+82/149+153+138	5.8096		23.7
A1260	102/180	3.8286	19.0	15.6
A1268	115/194	1.1501	5.71	4.69

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 2.08

Total Cl / biphenyl Residue = 3.64

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 05:45:14  
 Lab Sample ID: CCCS0728C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-129-17

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.76	188.7	1652	8.01	42.4			
3	12.78	188.7		-	-			
4	12.89	188.7	550	5.26	27.9			
5	13.50	223.1	1001	2.20	9.84			
6	14.36	223.1	2603	0.743	3.33			
7	14.67	223.1	2011	1.20	5.36			
8	14.86	223.1	8624	9.30	41.7			
9	15.42	223.1		-	-			
10	15.50	257.5	627	0.241	0.935			
11	15.97	257.5		-	-			
12	16.03	223.1		-	-			
13	16.23	223.1	455	0.174	0.779			
14	16.36	249.0	8308	2.84	11.4			
15	16.45	257.5	3752	2.75	10.7			
16	16.75	257.5	866	0.204	0.794			
17	17.00	257.5	7168	2.90	11.3			
19	17.46	267.9	30	0.00961	0.0359			
20	17.63	257.5	179	0.0369	0.143			
21	17.76	257.5	1885	0.576	2.24			
22	17.84	257.5	1061	0.239	0.929			
23	18.04	257.5	11591	2.82	10.9			
24	18.09	257.5	13048	2.91	11.3			
25	18.45	259.5	9769	2.80	10.8			
26	18.68	258.7	6481	1.95	7.53			
27	18.90	292.0	2437	0.681	2.33			
28	19.04	257.5		-	-			
29	19.18	292.0	977	0.309	1.06			
30	19.31	257.5		-	-			
31	19.48	292.0	10134	3.71	12.7			
32	19.64	292.0	8403	1.54	5.27			
33	19.76	292.0	4140	0.533	1.83			
34	19.82	292.0	3674	0.684	2.34			
35	19.96	292.0		-	-			
36	20.04	257.5	76	0.0337	0.131			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.21	292.0	12536	2.99	10.2			
38	20.34	272.4	7214	2.06	7.57			
39	20.69	292.0	14021	2.54	8.72			
41	20.86	326.4	153	0.0463	0.142			
42	20.95	292.0	3133	0.712	2.44			
43	21.21	298.9	130	0.0281	0.0939			
44	21.38	298.9	456	0.0718	0.240			
45	21.53	292.0	705	0.114	0.391			
46	21.70	292.0	7512	0.921	3.15			
47	21.84	292.0	14122	2.18	7.48			
48	21.95	293.5	18768	4.36	14.9			
49	22.26	324.7	1691	0.358	1.10			
50	22.56	292.0	12717	1.93	6.61			
51	22.80	326.4	3580	1.51	4.64			
52	22.91	326.4	258	0.0550	0.168			
53	23.06	326.4	6656	1.25	3.84			
54	23.25	326.4	3211	0.394	1.21			
55	23.52	326.4	170	0.0133	0.0408			
56	23.62	326.4	565	0.122	0.373			
57	23.84	326.4	2831	0.410	1.26			
58	24.01	326.4	4990	0.826	2.53			
59	24.16	326.4	2665	0.368	1.13			
60	24.29	360.9	2612	0.449	1.24			
61	24.41	326.4	7635	1.43	4.38			
62	24.69	360.9	-	-	-			
63	24.78	326.4	2031	0.302	0.926			
64	25.08	360.9	6552	1.12	3.09			
65	25.22	350.5	1870	0.192	0.548			
66	25.27	360.9	1382	0.376	1.04			
67	25.33	336.8	439	0.0744	0.221			
68	25.44	326.4	168	0.0277	0.0848			
69	25.53	337.5	15658	2.44	7.24			
70	25.64	360.9	-	-	-			
71	25.93	347.8	738	0.107	0.308			
72	26.13	336.8	118	0.00970	0.0288			
73	26.42	360.9	1625	0.225	0.623			
74	26.54	347.8	6893	0.790	2.27			
75	26.70	360.9	13877	1.77	4.91			
76	26.81	360.9	-	-	-			
77	27.24	360.9	5216	1.05	2.92			
78	27.30	395.3	5697	0.975	2.47			
79	27.52	360.9	161	0.0250	0.0692			
80	27.66	360.9	1939	0.142	0.394			
82	27.89	360.9	11934	1.59	4.41			
83	28.07	360.9	1268	0.144	0.400			
84	28.28	360.9	354	0.00927	0.0257			
85	28.62	395.3	2887	0.757	1.91			
87	28.92	395.3	559	0.116	0.293			
88	29.07	395.3	16405	2.33	5.89			
89	29.18	360.9	570	0.0540	0.150			
90	29.38	395.3	7119	1.05	2.65			
91	29.63	360.9	131	0.0121	0.0334			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.98	394.3	2974	0.312	0.790			
93	30.36	394.3	13879	2.02	5.13			
94	30.63	394.3	6448	1.08	2.73			
95	30.93	382.2	3107	0.482	1.26			
96	31.19	429.8	1979	0.0455	0.106			
98	31.38	395.3	179	0.0204	0.0516			
99	31.74	429.8	1481	0.261	0.608			
100	31.98	395.3	2017	0.349	0.884			
101	32.27	429.8	302	0.0578	0.134			
102	32.46	395.3	30800	3.83	9.69			
103	32.71	395.3	1609	0.273	0.691			
104	33.00	395.3	529	0.0902	0.228			
105	33.37	429.8	1922	0.296	0.689			
106	34.52	395.3	9552	0.786	1.99			
107	34.79	395.3	2674	0.277	0.701			
108	35.67	429.8	813	0.0933	0.217			
109	35.90	429.8	13100	2.88	6.71			
110	36.44	429.8	14257	2.82	6.55			
111	37.61	395.3	148	0.0129	0.0326			
112	39.16	429.8	4659	0.362	0.842			
113	39.70	464.2	878	0.193	0.417			
114	40.63	464.2	657	0.0752	0.162			
115	42.03	429.8	12771	1.15	2.68			
116	42.93	429.8	645	0.0793	0.185			
117	48.09	464.2	4972	0.506	1.09			
118	54.16	498.6	54	0.00453	0.00909			

Total Concentration = 114 ng/mL

Total Nanomoles = 0.407

Average Molecular Weight = 279.5

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 151574.7

Northeast Analytical, Inc.  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 05:45:14  
 Lab Sample ID: CCCS0728C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-129-17

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	7.034	10.419
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003	0.2771	4	4.622	6.846
5	13.50	2:2	004 010	0.2903	2-2; 26	1.929	2.416
6	14.36	2:1	007 009	0.3088	24; 25	0.652	0.817
7	14.67	2:1	006	0.3154	2-3	1.050	1.316
8	14.86	2:1	005 008	0.3195	23; 2-4	8.166	10.231
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	0.212	0.230
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013	0.3490	34; 3-4	0.153	0.191
14	16.36	2:0 3:2	015 018	0.3518	4-4; 25-2	2.493	2.798
15	16.45	3:2	017	0.3537	24-2	2.416	2.623
16	16.75	3:2	024 027	0.3601	236; 26-3	0.180	0.195
17	17.00	3:2	016 032	0.3655	23-2; 26-4	2.552	2.770
19	17.46	3:1 4:4	023 034 054	0.3754	235; 35-2; 26-26	0.008	0.009
20	17.63	3:1	029	0.3791	245	0.032	0.035
21	17.76	3:1	026	0.3819	25-3	0.506	0.549
22	17.84	3:1	025	0.3836	24-3	0.210	0.228
23	18.04	3:1	031	0.3879	25-4	2.475	2.686
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	2.556	2.775
25	18.45	3:1 4:3	020 021 033 053	0.3967	23-3; 234; 34-2; 25-26	2.462	2.652
26	18.68	3:1 4:3	022 051	0.4016	23-4; 24-26	1.711	1.849
27	18.90	4:3	045	0.4064	236-2	0.598	0.573
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046	0.4124	23-26	0.271	0.260
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4188	25-25; 246-3; 26-35	3.263	3.123
32	19.64	4:2	043 049	0.4223	235-2; 24-25	1.351	1.293
33	19.76	4:2	038 047	0.4249	345; 24-24	0.468	0.448
34	19.82	4:2	048 075	0.4261	245-2; 246-4	0.601	0.575
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035	0.4309	34-3	0.030	0.032
37	20.21	5:4 4:2	104 044	0.4345	246-26; 23-25	2.623	2.511
38	20.34	3:0 4:2	037 042 059	0.4373	34-4; 23-24; 236-3	1.811	1.858

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
39	20.69	4:2	041 064 071 072	0.4449	234-2; 236-4; 26-34; 25-35	2.235	2.140
41	20.86	5:4	068 096	0.4485	24-35; 236-26	0.041	0.035
42	20.95	4:2	040	0.4504	23-23	0.626	0.599
43	21.21	4:1 5:3	057 103	0.4560	235-3; 246-25	0.025	0.023
44	21.38	4:1 5:3	058 067 100	0.4597	23-35; 245-3; 246-24	0.063	0.059
45	21.53	4:1	063	0.4629	235-4	0.100	0.096
46	21.70	4:1 5:3	074 094 061	0.4666	245-4; 235-26; 2345	0.809	0.774
47	21.84	4:1	070	0.4696	25-34	1.918	1.836
48	21.95	4:1 5:3	066 076 098 080 093 095 102 088	0.4719	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.831	3.648
49	22.26	4:1 5:3	055 091 121	0.4786	234-3; 236-24; 246-35	0.315	0.271
50	22.56	4:1	056 060	0.4851	23-34; 234-4	1.697	1.624
51	22.80	5:3 6:4	084 092 155	0.4902	236-23; 235-25; 246-246	1.329	1.138
52	22.91	5:3	089	0.4926	234-26	0.048	0.041
53	23.06	5:2	090 101	0.4958	235-24; 245-25	1.101	0.943
54	23.25	5:2	079 099 113	0.4999	34-35; 245-24; 236-35	0.346	0.297
55	23.52	5:2 6:4	119 150	0.5057	246-34; 236-246	0.012	0.010
56	23.62	5:2	078 083 112 108	0.5078	345-3; 235-23; 2356-3; 2346-3	0.107	0.091
57	23.84	5:2 6:4	097 152 086	0.5126	245-23; 2356-26; 2345-2	0.360	0.308
58	24.01	5:2	081 087 117 125 115 145	0.5162	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.726	0.621
59	24.16	5:2	116 085 111	0.5195	23456; 234-24; 235-35	0.323	0.277
60	24.29	6:4	120 136	0.5223	245-35; 236-236	0.394	0.305
61	24.41	5:2	077 110 148	0.5248	34-34; 236-34; 235-246	1.256	1.075
62	24.69	6:3	154		245-246	-	-
63	24.78	5:2	082	0.5328	234-23	0.265	0.227
64	25.08	6:3	151	0.5392	2356-25	0.981	0.760
65	25.22	5:1 6:3	124 135	0.5422	345-25; 235-236	0.169	0.134
66	25.27	6:3	144	0.5433	2346-25	0.330	0.256
67	25.33	5:1 6:3	107 109 147	0.5446	234-35; 235-34; 2356-24	0.065	0.054
68	25.44	5:1	123	0.5470	345-24	0.024	0.021
69	25.53	5:1 6:3	106 118 139 149	0.5489	2345-3; 245-34; 2346-24; 236-245	2.146	1.778
70	25.64	6:3	140		234-246	-	-
71	25.93	5:1 6:3	114 134 143	0.5575	2345-4; 2356-23; 2345-26	0.094	0.076
72	26.13	5:1 6:3	122 131 133 142	0.5618	345-23; 2346-23; 235-235; 23456-2	0.009	0.007
73	26.42	6:2	146 165 188	0.5680	235-245; 2356-35; 2356-246	0.197	0.153
74	26.54	5:1 6:3	105 132 161	0.5706	234-34; 234-236; 2346-35	0.694	0.558
75	26.70	6:2	153	0.5741	245-245	1.558	1.206
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	141	0.5857	2345-25	0.925	0.716
78	27.30	7:4	179	0.5870	2356-236	0.857	0.606
79	27.52	6:2	137	0.5917	2345-24	0.022	0.017
80	27.66	6:2 7:4	130 176	0.5947	234-235; 2346-236	0.125	0.097
82	27.89	6:2	138 163 164	0.5997	234-245; 2356-34; 236-345	1.399	1.084
83	28.07	6:2	158 160 186	0.6035	2346-34; 23456-3; 23456-26	0.127	0.098
84	28.28	6:2	126 129	0.6080	345-34; 2345-23	0.008	0.006
85	28.62	7:3	166 178	0.6154	23456-4; 2356-235	0.665	0.470
87	28.92	7:3	175 159	0.6218	2346-235; 2345-35	0.102	0.072
88	29.07	7:3	182 187	0.6250	2345-246; 2356-245	2.044	1.446
89	29.18	6:2	128 162	0.6274	234-234; 235-345	0.047	0.037
90	29.38	7:3	183	0.6317	2346-245	0.920	0.650
91	29.63	6:1	167	0.6371	245-345	0.011	0.008
92	29.98	7:3	185	0.6446	23456-25	0.274	0.194
93	30.36	7:3	174 181	0.6528	2345-236; 23456-24	1.777	1.259
94	30.63	7:3	177	0.6586	2356-234	0.944	0.670
95	30.93	6:1 7:3	156 171	0.6650	2345-34; 2346-234	0.423	0.310
96	31.19	8:4	157 202	0.6706	234-345; 2356-2356	0.040	0.026
98	31.38	7:3	173	0.6747	23456-23	0.018	0.013
99	31.74	8:4	201	0.6824	2346-2356	0.230	0.149
100	31.98	7:2	172 204	0.6876	2345-235; 23456-246	0.307	0.217
101	32.27	8:4	192 197	0.6938	23456-35; 2346-2346	0.051	0.033
102	32.46	7:2	180	0.6979	2345-245	3.363	2.378
103	32.71	7:2	193	0.7033	2356-345	0.240	0.170
104	33.00	7:2	191	0.7095	2346-345	0.079	0.056

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.37	8:4	<b>200</b> 169	0.7175	23456-236; 345-345	0.260	0.169
106	34.52	7:2	<b>170</b>	0.7422	2345-234	0.691	0.488
107	34.79	7:2	<b>190</b>	0.7480	23456-34	0.243	0.172
108	35.67	8:3	<b>198</b>	0.7669	23456-235	0.082	0.053
109	35.90	8:3	<b>199</b>	0.7719	2345-2356	2.533	1.647
110	36.44	8:3	<b>196 203</b>	0.7835	2345-2346; 23456-245	2.474	1.609
111	37.61	7:1	<b>189</b>	0.8086	2345-345	0.011	0.008
112	39.16	8:3	<b>195</b>	0.8420	23456-234	0.318	0.207
113	39.70	9:4	<b>208</b>	0.8536	23456-2356	0.170	0.102
114	40.63	9:4	<b>207</b>	0.8736	23456-2346	0.066	0.040
115	42.03	8:2	<b>194</b>	0.9037	2345-2345	1.010	0.657
116	42.93	8:2	<b>205</b>	0.9230	23456-345	0.070	0.045
117	48.09	9:3	<b>206</b>	1.034	23456-2345	0.445	0.268
118	54.16	10:4	<b>209</b>	1.164	23456-23456	0.004	0.002

Concentration = 114 ng/mL

Total Nanomoles = 0.407

Average Molecular Weight = 279.5

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

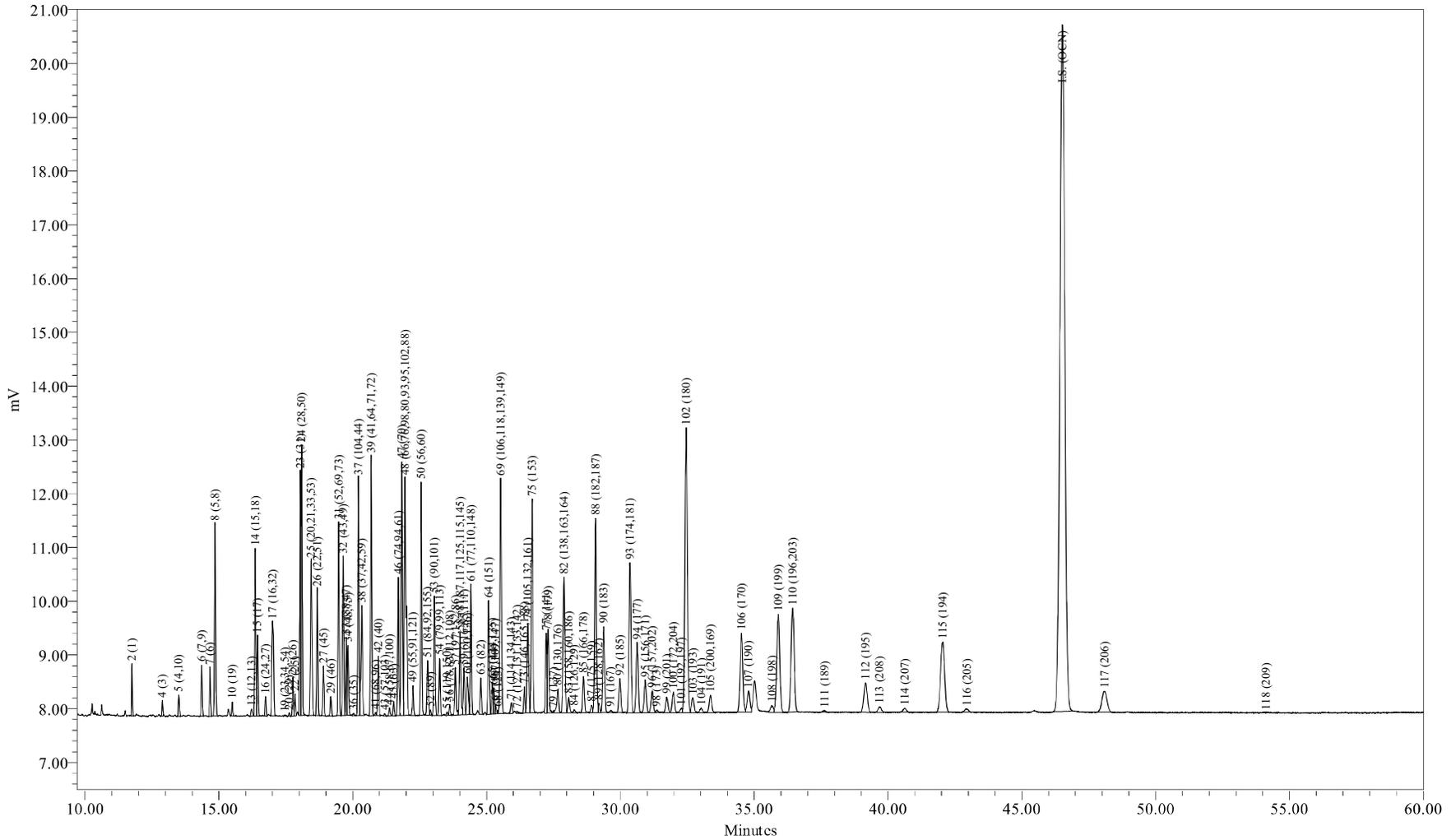
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Sample Name: CCCS0728D  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 7/29/2009 7:56:06 AM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_062409  
 LIMS File ID: GC25-129-19

Sample Name: CCCS0728D

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 07:56:06  
 Lab Sample ID: CCCS0728D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-129-19

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 116 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.74	17.39
Di	12.62	15.72
Tri	17.99	19.50
Tetra	21.12	20.27
Penta	8.24	7.02
Hexa	7.59	5.93
Hepta	12.84	9.09
Octa	7.19	4.67
Nona	0.67	0.40
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.9890	39.4	32.3
A1242	23+24/31+28	5.7779	28.5	23.4
A1254SED	61/100	1.4263	7.04	
A1254BIO	69+75+82/149+153+138	5.8848		23.8
A1260	102/180	3.8903	19.2	15.7
A1268	115/194	1.1731	5.79	4.75

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 2.08

Total Cl / biphenyl Residue = 3.64

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 07:56:06  
 Lab Sample ID: CCCS0728D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-129-19

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.76	188.7	1750	7.99	42.3			
3	12.78	188.7		-	-			
4	12.89	188.7	620	5.59	29.6			
5	13.50	223.1	1117	2.31	10.3			
6	14.36	223.1	2722	0.731	3.28			
7	14.67	223.1	2188	1.22	5.49			
8	14.86	223.1	9292	9.43	42.3			
9	15.42	223.1		-	-			
10	15.50	257.5	641	0.232	0.900			
11	15.97	257.5		-	-			
12	16.03	223.1		-	-			
13	16.23	223.1	510	0.184	0.823			
14	16.36	249.0	8905	2.86	11.5			
15	16.45	257.5	4049	2.79	10.9			
16	16.75	257.5	970	0.216	0.838			
17	17.00	257.5	7670	2.93	11.4			
19	17.46	267.9	111	0.0336	0.125			
20	17.63	257.5	188	0.0367	0.143			
21	17.76	257.5	2044	0.588	2.28			
22	17.84	257.5	1131	0.240	0.933			
23	18.04	257.5	12400	2.84	11.0			
24	18.09	257.5	13995	2.94	11.4			
25	18.45	259.5	10440	2.82	10.9			
26	18.68	258.7	6903	1.95	7.55			
27	18.91	292.0	2588	0.681	2.33			
28	19.04	257.5		-	-			
29	19.18	292.0	1030	0.307	1.05			
30	19.31	257.5		-	-			
31	19.48	292.0	10802	3.73	12.8			
32	19.65	292.0	8933	1.54	5.27			
33	19.76	292.0	4364	0.529	1.81			
34	19.82	292.0	3851	0.675	2.31			
35	19.96	292.0		-	-			
36	20.04	257.5	169	0.0709	0.275			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.21	292.0	13442	3.02	10.3			
38	20.35	272.4	7779	2.09	7.69			
39	20.69	292.0	15089	2.58	8.83			
41	20.86	326.4	196	0.0558	0.171			
42	20.96	292.0	3413	0.731	2.50			
43	21.20	298.9	149	0.0303	0.101			
44	21.37	298.9	492	0.0729	0.244			
45	21.53	292.0	794	0.121	0.414			
46	21.70	292.0	8024	0.926	3.17			
47	21.84	292.0	15157	2.21	7.56			
48	21.95	293.5	20106	4.40	15.0			
49	22.26	324.7	1820	0.363	1.12			
50	22.56	292.0	13666	1.95	6.69			
51	22.80	326.4	3838	1.53	4.68			
52	22.91	326.4	298	0.0598	0.183			
53	23.05	326.4	7164	1.27	3.89			
54	23.25	326.4	3485	0.403	1.23			
55	23.52	326.4	208	0.0154	0.0472			
56	23.62	326.4	597	0.121	0.370			
57	23.84	326.4	3041	0.415	1.27			
58	24.01	326.4	5319	0.829	2.54			
59	24.16	326.4	2810	0.365	1.12			
60	24.29	360.9	2796	0.452	1.25			
61	24.41	326.4	8091	1.43	4.37			
62	24.69	360.9	-	-	-			
63	24.78	326.4	2159	0.303	0.927			
64	25.08	360.9	7062	1.13	3.14			
65	25.22	350.5	2003	0.194	0.552			
66	25.27	360.9	1515	0.388	1.08			
67	25.34	336.8	517	0.0825	0.245			
68	25.43	326.4	124	0.0192	0.0587			
69	25.53	337.5	16872	2.48	7.35			
70	25.64	360.9	-	-	-			
71	25.93	347.8	852	0.116	0.335			
72	26.14	336.8	159	0.0121	0.0358			
73	26.42	360.9	1759	0.229	0.635			
74	26.55	347.8	7442	0.803	2.31			
75	26.70	360.9	14947	1.80	4.98			
76	26.81	360.9	-	-	-			
77	27.24	360.9	5548	1.05	2.92			
78	27.30	395.3	6274	1.01	2.56			
79	27.50	360.9	115	0.0164	0.0454			
80	27.67	360.9	2261	0.156	0.433			
82	27.89	360.9	12776	1.61	4.45			
83	28.07	360.9	1345	0.144	0.400			
84	28.27	360.9	303	0.00746	0.0207			
85	28.62	395.3	2974	0.734	1.86			
87	28.93	395.3	567	0.111	0.280			
88	29.07	395.3	17555	2.35	5.93			
89	29.20	360.9	666	0.0594	0.164			
90	29.38	395.3	7692	1.07	2.69			
91	29.64	360.9	201	0.0175	0.0486			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.98	394.3	3236	0.319	0.810			
93	30.36	394.3	15027	2.06	5.23			
94	30.63	394.3	7040	1.11	2.80			
95	30.93	382.2	3400	0.497	1.30			
96	31.19	429.8	2308	0.0500	0.116			
98	31.36	395.3	254	0.0273	0.0691			
99	31.73	429.8	1758	0.292	0.680			
100	31.98	395.3	2342	0.382	0.967			
101	32.28	429.8	495	0.0903	0.210			
102	32.46	395.3	33229	3.89	9.84			
103	32.70	395.3	1820	0.291	0.735			
104	33.02	395.3	539	0.0866	0.219			
105	33.37	429.8	2240	0.325	0.756			
106	34.52	395.3	10369	0.804	2.03			
107	34.79	395.3	2922	0.285	0.721			
108	35.66	429.8	1007	0.109	0.253			
109	35.90	429.8	14254	2.95	6.88			
110	36.44	429.8	15427	2.87	6.68			
111	37.63	395.3	303	0.0248	0.0627			
112	39.17	429.8	5049	0.369	0.859			
113	39.68	464.2	946	0.196	0.423			
114	40.63	464.2	710	0.0766	0.165			
115	42.05	429.8	13831	1.17	2.73			
116	42.94	429.8	652	0.0756	0.176			
117	48.09	464.2	5201	0.499	1.07			
118	54.12	498.6	28	0.00227	0.00456			

Total Concentration = 116 ng/mL

Total Nanomoles = 0.414

Average Molecular Weight = 279.5

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 160966.0

Northeast Analytical, Inc.  
 2190 Technology Drive  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 07:56:06  
 Lab Sample ID: CCCS0728D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-129-19

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	6.908	10.231
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003	0.2771	4	4.834	7.160
5	13.50	2:2	004 010	0.2903	2-2; 26	1.995	2.499
6	14.36	2:1	007 009	0.3088	24; 25	0.632	0.792
7	14.67	2:1	006	0.3154	2-3	1.059	1.327
8	14.86	2:1	005 008	0.3195	23; 2-4	8.157	10.218
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	0.200	0.217
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013	0.3490	34; 3-4	0.159	0.199
14	16.36	2:0 3:2	015 018	0.3518	4-4; 25-2	2.477	2.780
15	16.45	3:2	017	0.3537	24-2	2.417	2.623
16	16.75	3:2	024 027	0.3601	236; 26-3	0.187	0.202
17	17.00	3:2	016 032	0.3655	23-2; 26-4	2.531	2.747
19	17.46	3:1 4:4	023 034 054	0.3754	235; 35-2; 26-26	0.029	0.030
20	17.63	3:1	029	0.3791	245	0.032	0.034
21	17.76	3:1	026	0.3819	25-3	0.508	0.552
22	17.84	3:1	025	0.3836	24-3	0.208	0.225
23	18.04	3:1	031	0.3879	25-4	2.454	2.664
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	2.542	2.759
25	18.45	3:1 4:3	020 021 033 053	0.3967	23-3; 234; 34-2; 25-26	2.439	2.627
26	18.68	3:1 4:3	022 051	0.4016	23-4; 24-26	1.689	1.825
27	18.91	4:3	045	0.4066	236-2	0.589	0.564
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046	0.4124	23-26	0.265	0.254
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4188	25-25; 246-3; 26-35	3.224	3.085
32	19.65	4:2	043 049	0.4225	235-2; 24-25	1.331	1.274
33	19.76	4:2	038 047	0.4249	345; 24-24	0.457	0.438
34	19.82	4:2	048 075	0.4261	245-2; 246-4	0.584	0.559
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035	0.4309	34-3	0.061	0.067
37	20.21	5:4 4:2	104 044	0.4345	246-26; 23-25	2.608	2.496
38	20.35	3:0 4:2	037 042 059	0.4375	34-4; 23-24; 236-3	1.810	1.857

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	041 064 071 072	0.4449	234-2; 236-4; 26-34; 25-35	2.230	2.135
41	20.86	5:4	068 096	0.4485	24-35; 236-26	0.048	0.041
42	20.96	4:2	040	0.4507	23-23	0.632	0.605
43	21.20	4:1 5:3	057 103	0.4558	235-3; 246-25	0.026	0.024
44	21.37	4:1 5:3	058 067 100	0.4595	23-35; 245-3; 246-24	0.063	0.059
45	21.53	4:1	063	0.4629	235-4	0.105	0.100
46	21.70	4:1 5:3	074 094 061	0.4666	245-4; 235-26; 2345	0.801	0.766
47	21.84	4:1	070	0.4696	25-34	1.908	1.826
48	21.95	4:1 5:3	066 076 098 080 093 095 102 088	0.4719	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.804	3.622
49	22.26	4:1 5:3	055 091 121	0.4786	234-3; 236-24; 246-35	0.314	0.270
50	22.56	4:1	056 060	0.4851	23-34; 234-4	1.690	1.618
51	22.80	5:3 6:4	084 092 155	0.4902	236-23; 235-25; 246-246	1.321	1.131
52	22.91	5:3	089	0.4926	234-26	0.052	0.044
53	23.05	5:2	090 101	0.4956	235-24; 245-25	1.098	0.940
54	23.25	5:2	079 099 113	0.4999	34-35; 245-24; 236-35	0.348	0.298
55	23.52	5:2 6:4	119 150	0.5057	246-34; 236-246	0.013	0.011
56	23.62	5:2	078 083 112 108	0.5078	345-3; 235-23; 2356-3; 2346-3	0.105	0.090
57	23.84	5:2 6:4	097 152 086	0.5126	245-23; 2356-26; 2345-2	0.358	0.307
58	24.01	5:2	081 087 117 125 115 145	0.5162	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.717	0.614
59	24.16	5:2	116 085 111	0.5195	23456; 234-24; 235-35	0.316	0.270
60	24.29	6:4	120 136	0.5223	245-35; 236-236	0.391	0.303
61	24.41	5:2	077 110 148	0.5248	34-34; 236-34; 235-246	1.233	1.056
62	24.69	6:3	154		245-246	-	-
63	24.78	5:2	082	0.5328	234-23	0.262	0.224
64	25.08	6:3	151	0.5392	2356-25	0.980	0.759
65	25.22	5:1 6:3	124 135	0.5422	345-25; 235-236	0.167	0.133
66	25.27	6:3	144	0.5433	2346-25	0.336	0.260
67	25.34	5:1 6:3	107 109 147	0.5448	234-35; 235-34; 2356-24	0.071	0.059
68	25.43	5:1	123	0.5468	345-24	0.017	0.014
69	25.53	5:1 6:3	106 118 139 149	0.5489	2345-3; 245-34; 2346-24; 236-245	2.144	1.775
70	25.64	6:3	140		234-246	-	-
71	25.93	5:1 6:3	114 134 143	0.5575	2345-4; 2356-23; 2345-26	0.101	0.081
72	26.14	5:1 6:3	122 131 133 142	0.5620	345-23; 2346-23; 235-235; 23456-2	0.010	0.009
73	26.42	6:2	146 165 188	0.5680	235-245; 2356-35; 2356-246	0.198	0.153
74	26.55	5:1 6:3	105 132 161	0.5708	234-34; 234-236; 2346-35	0.694	0.558
75	26.70	6:2	153	0.5741	245-245	1.555	1.205
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	141	0.5857	2345-25	0.911	0.706
78	27.30	7:4	179	0.5870	2356-236	0.874	0.618
79	27.50	6:2	137	0.5913	2345-24	0.014	0.011
80	27.67	6:2 7:4	130 176	0.5949	234-235; 2346-236	0.135	0.105
82	27.89	6:2	138 163 164	0.5997	234-245; 2356-34; 236-345	1.389	1.076
83	28.07	6:2	158 160 186	0.6035	2346-34; 23456-3; 23456-26	0.125	0.097
84	28.27	6:2	126 129	0.6078	345-34; 2345-23	0.006	0.005
85	28.62	7:3	166 178	0.6154	23456-4; 2356-235	0.635	0.449
87	28.93	7:3	175 159	0.6220	2346-235; 2345-35	0.096	0.068
88	29.07	7:3	182 187	0.6250	2345-246; 2356-245	2.028	1.434
89	29.20	6:2	128 162	0.6278	234-234; 235-345	0.051	0.040
90	29.38	7:3	183	0.6317	2346-245	0.921	0.651
91	29.64	6:1	167	0.6373	245-345	0.015	0.012
92	29.98	7:3	185	0.6446	23456-25	0.276	0.196
93	30.36	7:3	174 181	0.6528	2345-236; 23456-24	1.783	1.264
94	30.63	7:3	177	0.6586	2356-234	0.956	0.678
95	30.93	6:1 7:3	156 171	0.6650	2345-34; 2346-234	0.430	0.314
96	31.19	8:4	157 202	0.6706	234-345; 2356-2356	0.043	0.028
98	31.36	7:3	173	0.6743	23456-23	0.024	0.017
99	31.73	8:4	201	0.6822	2346-2356	0.253	0.164
100	31.98	7:2	172 204	0.6876	2345-235; 23456-246	0.331	0.234
101	32.28	8:4	192 197	0.6940	23456-35; 2346-2346	0.078	0.051
102	32.46	7:2	180	0.6979	2345-245	3.364	2.378
103	32.70	7:2	193	0.7031	2356-345	0.251	0.178
104	33.02	7:2	191	0.7100	2346-345	0.075	0.053

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.37	8:4	<b>200</b> 169	0.7175	23456-236; 345-345	0.281	0.183
106	34.52	7:2	<b>170</b>	0.7422	2345-234	0.695	0.491
107	34.79	7:2	<b>190</b>	0.7480	23456-34	0.247	0.174
108	35.66	8:3	<b>198</b>	0.7667	23456-235	0.094	0.061
109	35.90	8:3	<b>199</b>	0.7719	2345-2356	2.555	1.661
110	36.44	8:3	<b>196 203</b>	0.7835	2345-2346; 23456-245	2.482	1.614
111	37.63	7:1	<b>189</b>	0.8091	2345-345	0.021	0.015
112	39.17	8:3	<b>195</b>	0.8422	23456-234	0.319	0.208
113	39.68	9:4	<b>208</b>	0.8531	23456-2356	0.170	0.102
114	40.63	9:4	<b>207</b>	0.8736	23456-2346	0.066	0.040
115	42.05	8:2	<b>194</b>	0.9041	2345-2345	1.014	0.660
116	42.94	8:2	<b>205</b>	0.9232	23456-345	0.065	0.042
117	48.09	9:3	<b>206</b>	1.034	23456-2345	0.431	0.260
118	54.12	10:4	<b>209</b>	1.164	23456-23456	0.002	0.001

Concentration = 116 ng/mL

Total Nanomoles = 0.414

Average Molecular Weight = 279.5

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

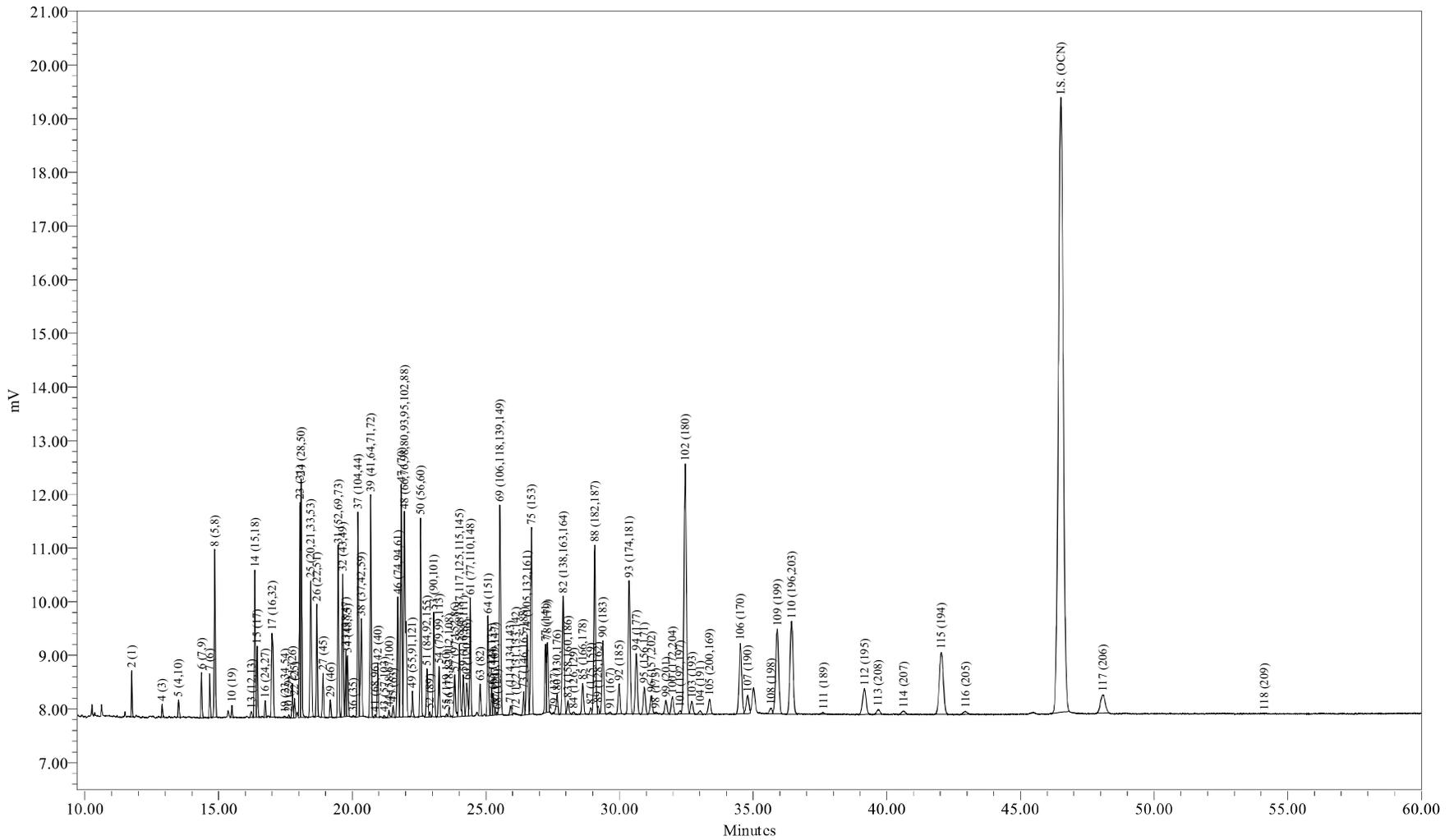
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Sample Name: CCCS0729A  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 7/29/2009 7:00:28 PM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_062409  
 LIMS File ID: GC25-130-5

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 19:00:28  
 Lab Sample ID: CCCS0729A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-130-5

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 113 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.70	17.32
Di	12.59	15.68
Tri	18.05	19.57
Tetra	21.29	20.43
Penta	8.32	7.08
Hexa	7.55	5.89
Hepta	12.73	9.01
Octa	7.14	4.64
Nona	0.63	0.38
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.7821	39.2	32.2
A1242	23+24/31+28	5.6951	28.7	23.6
A1254SED	61/100	1.4018	7.07	
A1254BIO	69+75+82/149+153+138	5.7376		23.7
A1260	102/180	3.8007	19.2	15.7
A1268	115/194	1.1536	5.82	4.77

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 2.08

Total Cl / biphenyl Residue = 3.63

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 19:00:28  
 Lab Sample ID: CCCS0729A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-130-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.76	188.7	1523	7.78	41.2			
3	12.78	188.7		-	-			
4	12.89	188.7	533	5.38	28.5			
5	13.50	223.1	946	2.19	9.81			
6	14.36	223.1	2438	0.733	3.29			
7	14.67	223.1	1897	1.19	5.33			
8	14.86	223.1	8096	9.20	41.2			
9	15.42	223.1		-	-			
10	15.50	257.5	538	0.218	0.846			
11	15.97	257.5		-	-			
12	16.03	223.1		-	-			
13	16.23	223.1	393	0.158	0.709			
14	16.36	249.0	7818	2.82	11.3			
15	16.45	257.5	3533	2.73	10.6			
16	16.74	257.5	819	0.204	0.792			
17	17.00	257.5	6629	2.83	11.0			
19	17.48	267.9	91	0.0306	0.114			
20	17.63	257.5	179	0.0391	0.152			
21	17.76	257.5	1800	0.579	2.25			
22	17.84	257.5	1011	0.241	0.934			
23	18.04	257.5	10555	2.70	10.5			
24	18.09	257.5	12712	2.99	11.6			
25	18.45	259.5	9152	2.77	10.7			
26	18.68	258.7	5980	1.89	7.32			
27	18.91	292.0	2273	0.670	2.29			
28	19.04	257.5		-	-			
29	19.18	292.0	856	0.286	0.978			
30	19.31	257.5		-	-			
31	19.48	292.0	9546	3.69	12.6			
32	19.64	292.0	7877	1.52	5.20			
33	19.76	292.0	3841	0.521	1.78			
34	19.82	292.0	3362	0.660	2.26			
35	19.96	292.0		-	-			
36	20.04	257.5	85	0.0397	0.154			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.21	292.0	11735	2.95	10.1			
38	20.34	272.4	6740	2.03	7.45			
39	20.69	292.0	13187	2.52	8.64			
41	20.86	326.4	164	0.0522	0.160			
42	20.96	292.0	2982	0.715	2.45			
43	21.19	298.9	173	0.0393	0.131			
44	21.38	298.9	459	0.0761	0.255			
45	21.53	292.0	681	0.116	0.398			
46	21.70	292.0	7032	0.909	3.11			
47	21.84	292.0	13245	2.16	7.39			
48	21.95	293.5	17640	4.32	14.7			
49	22.26	324.7	1528	0.341	1.05			
50	22.56	292.0	11914	1.91	6.53			
51	22.80	326.4	3436	1.53	4.69			
52	22.90	326.4	264	0.0592	0.181			
53	23.05	326.4	6265	1.24	3.81			
54	23.25	326.4	3003	0.389	1.19			
55	23.53	326.4	159	0.0131	0.0402			
56	23.63	326.4	546	0.124	0.379			
57	23.83	326.4	2741	0.418	1.28			
58	24.01	326.4	4731	0.826	2.53			
59	24.16	326.4	2467	0.359	1.10			
60	24.29	360.9	2438	0.442	1.22			
61	24.42	326.4	7103	1.40	4.29			
62	24.69	360.9	-	-	-			
63	24.78	326.4	1903	0.299	0.915			
64	25.08	360.9	6131	1.10	3.05			
65	25.22	350.5	1732	0.187	0.535			
66	25.28	360.9	1286	0.369	1.02			
67	25.34	336.8	364	0.0651	0.193			
68	25.43	326.4	125	0.0217	0.0666			
69	25.52	337.5	14636	2.41	7.13			
70	25.64	360.9	-	-	-			
71	25.92	347.8	690	0.106	0.304			
72	26.12	336.8	58	0.00533	0.0158			
73	26.42	360.9	1558	0.227	0.630			
74	26.55	347.8	6533	0.789	2.27			
75	26.70	360.9	13038	1.76	4.87			
76	26.81	360.9	-	-	-			
77	27.24	360.9	4698	0.999	2.77			
78	27.30	395.3	5021	0.906	2.29			
79	27.56	360.9	104	0.0166	0.0461			
80	27.67	360.9	1767	0.136	0.378			
82	27.89	360.9	11182	1.57	4.36			
83	28.07	360.9	1140	0.137	0.379			
84	28.28	360.9	240	0.00660	0.0183			
85	28.62	395.3	2595	0.717	1.81			
87	28.93	395.3	524	0.115	0.290			
88	29.07	395.3	15485	2.32	5.86			
89	29.20	360.9	560	0.0559	0.155			
90	29.38	395.3	6719	1.04	2.64			
91	29.65	360.9	146	0.0142	0.0393			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.99	394.3	2743	0.303	0.768			
93	30.36	394.3	13101	2.01	5.10			
94	30.63	394.3	6025	1.06	2.69			
95	30.93	382.2	2922	0.478	1.25			
96	31.20	429.8	1963	0.0476	0.111			
98	31.35	395.3	146	0.0176	0.0445			
99	31.74	429.8	1467	0.273	0.636			
100	31.98	395.3	1953	0.357	0.903			
101	32.27	429.8	298	0.0601	0.140			
102	32.46	395.3	29001	3.80	9.61			
103	32.70	395.3	1401	0.251	0.635			
104	33.02	395.3	389	0.0699	0.177			
105	33.37	429.8	1757	0.286	0.665			
106	34.52	395.3	8990	0.780	1.97			
107	34.80	395.3	2463	0.269	0.680			
108	35.66	429.8	701	0.0849	0.197			
109	35.90	429.8	12253	2.84	6.62			
110	36.44	429.8	13650	2.84	6.62			
111	37.63	395.3	207	0.0190	0.0480			
112	39.17	429.8	4465	0.365	0.850			
113	39.67	464.2	761	0.177	0.381			
114	40.64	464.2	625	0.0755	0.163			
115	42.04	429.8	12148	1.15	2.68			
116	42.95	429.8	595	0.0773	0.180			
117	48.08	464.2	4265	0.458	0.987			
118	54.12	498.6	10	0.000963	0.00193			

Total Concentration = 113 ng/mL

Total Nanomoles = 0.403

Average Molecular Weight = 279.4

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 46.51 minutes

Internal Standard Peak Area = 143751.3

Northeast Analytical, Inc.  
2190 Technology Drive  
Schenectady, NY 12308  
(518) 346-4592 Fax (518) 381-6055

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/29/2009 19:00:28  
 Lab Sample ID: CCCS0729A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC25-130-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.76	1:1	001	0.2528	2	6.915	10.238
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003	0.2771	4	4.782	7.080
5	13.50	2:2	004 010	0.2903	2-2; 26	1.945	2.436
6	14.36	2:1	007 009	0.3088	24; 25	0.652	0.816
7	14.67	2:1	006	0.3154	2-3	1.056	1.323
8	14.86	2:1	005 008	0.3195	23; 2-4	8.175	10.238
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3333	26-2	0.193	0.210
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013	0.3490	34; 3-4	0.140	0.176
14	16.36	2:0 3:2	015 018	0.3518	4-4; 25-2	2.502	2.807
15	16.45	3:2	017	0.3537	24-2	2.426	2.632
16	16.74	3:2	024 027	0.3599	236; 26-3	0.181	0.197
17	17.00	3:2	016 032	0.3655	23-2; 26-4	2.516	2.730
19	17.48	3:1 4:4	023 034 054	0.3758	235; 35-2; 26-26	0.027	0.028
20	17.63	3:1	029	0.3791	245	0.035	0.038
21	17.76	3:1	026	0.3819	25-3	0.515	0.559
22	17.84	3:1	025	0.3836	24-3	0.214	0.232
23	18.04	3:1	031	0.3879	25-4	2.403	2.607
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	2.657	2.883
25	18.45	3:1 4:3	020 021 033 053	0.3967	23-3; 234; 34-2; 25-26	2.460	2.649
26	18.68	3:1 4:3	022 051	0.4016	23-4; 24-26	1.684	1.818
27	18.91	4:3	045	0.4066	236-2	0.595	0.569
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046	0.4124	23-26	0.254	0.243
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4188	25-25; 246-3; 26-35	3.278	3.136
32	19.64	4:2	043 049	0.4223	235-2; 24-25	1.350	1.292
33	19.76	4:2	038 047	0.4249	345; 24-24	0.463	0.443
34	19.82	4:2	048 075	0.4261	245-2; 246-4	0.586	0.561
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035	0.4309	34-3	0.035	0.038
37	20.21	5:4 4:2	104 044	0.4345	246-26; 23-25	2.619	2.506
38	20.34	3:0 4:2	037 042 059	0.4373	34-4; 23-24; 236-3	1.804	1.850

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	041 064 071 072	0.4449	234-2; 236-4; 26-34; 25-35	2.242	2.145
41	20.86	5:4	068 096	0.4485	24-35; 236-26	0.046	0.040
42	20.96	4:2	040	0.4507	23-23	0.635	0.608
43	21.19	4:1 5:3	057 103	0.4556	235-3; 246-25	0.035	0.033
44	21.38	4:1 5:3	058 067 100	0.4597	23-35; 245-3; 246-24	0.068	0.063
45	21.53	4:1	063	0.4629	235-4	0.103	0.099
46	21.70	4:1 5:3	074 094 061	0.4666	245-4; 235-26; 2345	0.807	0.773
47	21.84	4:1	070	0.4696	25-34	1.918	1.835
48	21.95	4:1 5:3	066 076 098 080 093 095 102 088	0.4719	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.840	3.655
49	22.26	4:1 5:3	055 091 121	0.4786	234-3; 236-24; 246-35	0.303	0.261
50	22.56	4:1	056 060	0.4851	23-34; 234-4	1.695	1.622
51	22.80	5:3 6:4	084 092 155	0.4902	236-23; 235-25; 246-246	1.361	1.165
52	22.90	5:3	089	0.4924	234-26	0.053	0.045
53	23.05	5:2	090 101	0.4956	235-24; 245-25	1.105	0.946
54	23.25	5:2	079 099 113	0.4999	34-35; 245-24; 236-35	0.346	0.296
55	23.53	5:2 6:4	119 150	0.5059	246-34; 236-246	0.012	0.010
56	23.63	5:2	078 083 112 108	0.5081	345-3; 235-23; 2356-3; 2346-3	0.110	0.094
57	23.83	5:2 6:4	097 152 086	0.5124	245-23; 2356-26; 2345-2	0.372	0.318
58	24.01	5:2	081 087 117 125 115 145	0.5162	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.734	0.628
59	24.16	5:2	116 085 111	0.5195	23456; 234-24; 235-35	0.319	0.273
60	24.29	6:4	120 136	0.5223	245-35; 236-236	0.392	0.304
61	24.42	5:2	077 110 148	0.5250	34-34; 236-34; 235-246	1.246	1.066
62	24.69	6:3	154		245-246	-	-
63	24.78	5:2	082	0.5328	234-23	0.265	0.227
64	25.08	6:3	151	0.5392	2356-25	0.979	0.758
65	25.22	5:1 6:3	124 135	0.5422	345-25; 235-236	0.167	0.133
66	25.28	6:3	144	0.5435	2346-25	0.328	0.254
67	25.34	5:1 6:3	107 109 147	0.5448	234-35; 235-34; 2356-24	0.058	0.048
68	25.43	5:1	123	0.5468	345-24	0.019	0.017
69	25.52	5:1 6:3	106 118 139 149	0.5487	2345-3; 245-34; 2346-24; 236-245	2.139	1.771
70	25.64	6:3	140		234-246	-	-
71	25.92	5:1 6:3	114 134 143	0.5573	2345-4; 2356-23; 2345-26	0.094	0.075
72	26.12	5:1 6:3	122 131 133 142	0.5616	345-23; 2346-23; 235-235; 23456-2	0.005	0.004
73	26.42	6:2	146 165 188	0.5680	235-245; 2356-35; 2356-246	0.202	0.156
74	26.55	5:1 6:3	105 132 161	0.5708	234-34; 234-236; 2346-35	0.701	0.563
75	26.70	6:2	153	0.5741	245-245	1.561	1.208
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	141	0.5857	2345-25	0.888	0.687
78	27.30	7:4	179	0.5870	2356-236	0.805	0.569
79	27.56	6:2	137	0.5926	2345-24	0.015	0.011
80	27.67	6:2 7:4	130 176	0.5949	234-235; 2346-236	0.121	0.094
82	27.89	6:2	138 163 164	0.5997	234-245; 2356-34; 236-345	1.398	1.082
83	28.07	6:2	158 160 186	0.6035	2346-34; 23456-3; 23456-26	0.122	0.094
84	28.28	6:2	126 129	0.6080	345-34; 2345-23	0.006	0.005
85	28.62	7:3	166 178	0.6154	23456-4; 2356-235	0.637	0.451
87	28.93	7:3	175 159	0.6220	2346-235; 2345-35	0.102	0.072
88	29.07	7:3	182 187	0.6250	2345-246; 2356-245	2.058	1.455
89	29.20	6:2	128 162	0.6278	234-234; 235-345	0.050	0.038
90	29.38	7:3	183	0.6317	2346-245	0.926	0.654
91	29.65	6:1	167	0.6375	245-345	0.013	0.010
92	29.99	7:3	185	0.6448	23456-25	0.269	0.191
93	30.36	7:3	174 181	0.6528	2345-236; 23456-24	1.789	1.267
94	30.63	7:3	177	0.6586	2356-234	0.941	0.667
95	30.93	6:1 7:3	156 171	0.6650	2345-34; 2346-234	0.425	0.310
96	31.20	8:4	157 202	0.6708	234-345; 2356-2356	0.042	0.027
98	31.35	7:3	173	0.6740	23456-23	0.016	0.011
99	31.74	8:4	201	0.6824	2346-2356	0.243	0.158
100	31.98	7:2	172 204	0.6876	2345-235; 23456-246	0.317	0.224
101	32.27	8:4	192 197	0.6938	23456-35; 2346-2346	0.053	0.035
102	32.46	7:2	180	0.6979	2345-245	3.377	2.387
103	32.70	7:2	193	0.7031	2356-345	0.223	0.158
104	33.02	7:2	191	0.7100	2346-345	0.062	0.044

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.37	8:4	<b>200</b> 169	0.7175	23456-236; 345-345	0.254	0.165
106	34.52	7:2	<b>170</b>	0.7422	2345-234	0.693	0.490
107	34.80	7:2	<b>190</b>	0.7482	23456-34	0.239	0.169
108	35.66	8:3	<b>198</b>	0.7667	23456-235	0.075	0.049
109	35.90	8:3	<b>199</b>	0.7719	2345-2356	2.527	1.643
110	36.44	8:3	<b>196 203</b>	0.7835	2345-2346; 23456-245	2.527	1.642
111	37.63	7:1	<b>189</b>	0.8091	2345-345	0.017	0.012
112	39.17	8:3	<b>195</b>	0.8422	23456-234	0.325	0.211
113	39.67	9:4	<b>208</b>	0.8529	23456-2356	0.157	0.095
114	40.64	9:4	<b>207</b>	0.8738	23456-2346	0.067	0.040
115	42.04	8:2	<b>194</b>	0.9039	2345-2345	1.025	0.666
116	42.95	8:2	<b>205</b>	0.9235	23456-345	0.069	0.045
117	48.08	9:3	<b>206</b>	1.034	23456-2345	0.407	0.245
118	54.12	10:4	<b>209</b>	1.164	23456-23456	0.001	0.000

Concentration = 113 ng/mL

Total Nanomoles = 0.403

Average Molecular Weight = 279.4

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



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Sample Name:	CCCS0727A	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	07/27/2009 13:14:01	Extract Volume:	1
Project Name:	GC25_Mar_2009	Date Processed:	07/27/2009 15:06:41
Sample Set Name:	GC25_072709c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062409	Current Time:	11:14:57
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC25-128-3

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.76	1580	8.154	8.154
2	4 (3)	12.89	490	4.989	4.989
3	5 (4,10)	13.50	990	2.312	2.312
4	6 (7,9)	14.36	2499	0.759	0.759
5	7 (6)	14.67	1984	1.255	1.255
6	8 (5,8)	14.86	8305	9.529	9.529
7	10 (19)	15.50	589	0.241	0.241
8	13 (12,13)	16.23	437	0.177	0.177
9	14 (15,18)	16.36	8041	2.923	2.923
10	15 (17)	16.45	3648	2.846	2.846
11	16 (24,27)	16.74	873	0.219	0.219
12	17 (16,32)	17.00	6849	2.954	2.954
13	19 (23,34,54)	17.46	141	0.048	0.048
14	20 (29)	17.64	187	0.041	0.041
15	21 (26)	17.76	1811	0.588	0.588
16	22 (25)	17.84	1014	0.243	0.243
17	23 (31)	18.04	10910	2.822	2.822
18	24 (28,50)	18.09	12820	3.045	3.045
19	25 (20,21,33,53)	18.45	9426	2.879	2.879
20	26 (22,51)	18.68	6196	1.982	1.982
21	27 (45)	18.91	2293	0.682	0.682
22	29 (46)	19.19	958	0.322	0.322
23	31 (52,69,73)	19.48	9759	3.807	3.807
24	32 (43,49)	19.65	8088	1.576	1.576
25	33 (38,47)	19.76	4008	0.549	0.549
26	34 (48,75)	19.82	3587	0.711	0.711
27	36 (35)	20.04	90	0.043	0.043
28	37 (104,44)	20.22	12015	3.047	3.047
29	38 (37,42,59)	20.35	6937	2.110	2.110
30	39 (41,64,71,72)	20.69	13592	2.626	2.626
31	41 (68,96)	20.86	166	0.053	0.053
32	42 (40)	20.96	3107	0.752	0.752
33	43 (57,103)	21.20	143	0.033	0.033

CCCS0727A

1 of 3

Print Date: 8/1/2009  
Nea Lims Version : 4.4.4.5

34	44 (58,67,100)	21.38	455	0.076	0.076
35	45 (63)	21.53	720	0.124	0.124
36	46 (74,94,61)	21.70	7220	0.942	0.942
37	47 (70)	21.84	13598	2.238	2.238
38	48 (66,76,98,80,93,95,	21.95	18100	4.477	4.477
39	49 (55,91,121)	22.26	1641	0.370	0.370
40	50 (56,60)	22.56	12254	1.981	1.981
41	51 (84,92,155)	22.80	3427	1.541	1.541
42	52 (89)	22.91	284	0.064	0.064
43	53 (90,101)	23.06	6388	1.280	1.280
44	54 (79,99,113)	23.25	3084	0.403	0.403
45	55 (119,150)	23.52	150	0.013	0.013
46	56 (78,83,112,108)	23.63	561	0.128	0.128
47	57 (97,152,86)	23.84	2709	0.417	0.417
48	58 (81,87,117,125,115)	24.01	4789	0.844	0.844
49	59 (116,85,111)	24.16	2560	0.376	0.376
50	60 (120,136)	24.29	2495	0.456	0.456
51	61 (77,110,148)	24.42	7337	1.462	1.462
52	63 (82)	24.79	1979	0.313	0.313
53	64 (151)	25.08	6333	1.149	1.149
54	65 (124,135)	25.22	1742	0.190	0.190
55	66 (144)	25.28	1442	0.417	0.417
56	67 (107,109,147)	25.34	498	0.090	0.090
57	68 (123)	25.43	131	0.023	0.023
58	69 (106,118,139,149)	25.53	15247	2.533	2.533
59	71 (114,134,143)	25.93	703	0.109	0.109
60	72 (122,131,133,142)	26.15	70	0.006	0.006
61	73 (146,165,188)	26.42	1584	0.233	0.233
62	74 (105,132,161)	26.55	6697	0.817	0.817
63	75 (153)	26.70	13564	1.846	1.846
64	77 (141)	27.24	5055	1.086	1.086
65	78 (179)	27.31	5446	0.992	0.992
66	79 (137)	27.53	134	0.022	0.022
67	80 (130,176)	27.67	1904	0.149	0.149
68	82 (138,163,164)	27.89	11405	1.621	1.621
69	83 (158,160,186)	28.08	1140	0.138	0.138
70	84 (126,129)	28.28	204	0.006	0.006
71	85 (166,178)	28.62	2703	0.754	0.754
72	87 (175,159)	28.93	524	0.116	0.116
73	88 (182,187)	29.07	15871	2.397	2.397
74	89 (128,162)	29.20	586	0.059	0.059
75	90 (183)	29.38	7004	1.096	1.096
76	91 (167)	29.64	254	0.025	0.025
77	92 (185)	29.99	2990	0.334	0.334
78	93 (174,181)	30.36	13454	2.087	2.087
79	94 (177)	30.63	6094	1.081	1.081
80	95 (156,171)	30.93	2980	0.492	0.492
81	96 (157,202)	31.19	2013	0.049	0.049
82	98 (173)	31.36	209	0.025	0.025
83	99 (201)	31.74	1514	0.285	0.285
84	100 (172,204)	31.98	2058	0.380	0.380

85	101 (192,197)	32.27	342	0.070	0.070
86	102 (180)	32.46	29715	3.932	3.932
87	103 (193)	32.71	1543	0.279	0.279
88	104 (191)	33.03	406	0.074	0.074
89	105 (200,169)	33.37	1710	0.281	0.281
90	106 (170)	34.53	9181	0.804	0.804
91	107 (190)	34.80	2568	0.283	0.283
92	108 (198)	35.69	720	0.088	0.088
93	109 (199)	35.90	12488	2.925	2.925
94	110 (196,203)	36.44	13763	2.894	2.894
95	111 (189)	37.62	188	0.017	0.017
96	112 (195)	39.16	4442	0.367	0.367
97	113 (208)	39.68	847	0.199	0.199
98	114 (207)	40.62	559	0.068	0.068
99	115 (194)	42.05	12449	1.193	1.193
100	116 (205)	42.93	531	0.070	0.070
101	117 (206)	48.09	4764	0.516	0.516
102	118 (209)	54.12	12	0.001	0.001
103	Sum			116.489	116.489



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Sample Name:	CCCS0727B	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	07/27/2009 20:53:03	Extract Volume:	1
Project Name:	GC25_Mar_2009	Date Processed:	07/27/2009 22:10:03
Sample Set Name:	GC25_072709c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062409	Current Time:	11:14:58
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC25-128-10

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.76	1589	8.277	8.277
2	4 (3)	12.89	646	6.648	6.648
3	5 (4,10)	13.50	966	2.275	2.275
4	6 (7,9)	14.36	2395	0.734	0.734
5	7 (6)	14.67	1938	1.237	1.237
6	8 (5,8)	14.86	8216	9.515	9.515
7	10 (19)	15.50	559	0.231	0.231
8	13 (12,13)	16.23	422	0.173	0.173
9	14 (15,18)	16.36	7853	2.881	2.881
10	15 (17)	16.45	3553	2.798	2.798
11	16 (24,27)	16.75	839	0.213	0.213
12	17 (16,32)	17.00	6753	2.940	2.940
13	19 (23,34,54)	17.46	82	0.028	0.028
14	20 (29)	17.64	193	0.043	0.043
15	21 (26)	17.76	1815	0.595	0.595
16	22 (25)	17.84	1020	0.247	0.247
17	23 (31)	18.04	10799	2.819	2.819
18	24 (28,50)	18.09	12408	2.973	2.973
19	25 (20,21,33,53)	18.45	9318	2.873	2.873
20	26 (22,51)	18.68	6105	1.971	1.971
21	27 (45)	18.91	2310	0.693	0.693
22	29 (46)	19.18	944	0.321	0.321
23	31 (52,69,73)	19.48	9573	3.769	3.769
24	32 (43,49)	19.64	7908	1.555	1.555
25	33 (38,47)	19.76	3861	0.534	0.534
26	34 (48,75)	19.82	3379	0.676	0.676
27	36 (35)	20.05	85	0.041	0.041
28	37 (104,44)	20.22	11802	3.020	3.020
29	38 (37,42,59)	20.34	6662	2.044	2.044
30	39 (41,64,71,72)	20.69	13264	2.586	2.586
31	41 (68,96)	20.86	165	0.054	0.054
32	42 (40)	20.96	2982	0.728	0.728
33	43 (57,103)	21.20	154	0.036	0.036

CCCS0727B

1 of 3

Print Date: 8/1/2009  
Nea Lims Version : 4.4.4.5

34	44 (58,67,100)	21.38	498	0.084	0.084
35	45 (63)	21.54	732	0.127	0.127
36	46 (74,94,61)	21.71	7163	0.943	0.943
37	47 (70)	21.84	13386	2.223	2.223
38	48 (66,76,98,80,93,95,	21.95	17891	4.466	4.466
39	49 (55,91,121)	22.26	1738	0.396	0.396
40	50 (56,60)	22.56	12156	1.984	1.984
41	51 (84,92,155)	22.80	3505	1.591	1.591
42	52 (89)	22.90	310	0.071	0.071
43	53 (90,101)	23.06	6326	1.279	1.279
44	54 (79,99,113)	23.25	3019	0.398	0.398
45	55 (119,150)	23.52	136	0.011	0.011
46	56 (78,83,112,108)	23.62	517	0.120	0.120
47	57 (97,152,86)	23.84	2454	0.381	0.381
48	58 (81,87,117,125,115)	24.01	4497	0.799	0.799
49	59 (116,85,111)	24.16	2400	0.356	0.356
50	60 (120,136)	24.29	2356	0.435	0.435
51	61 (77,110,148)	24.42	7050	1.417	1.417
52	63 (82)	24.78	1857	0.297	0.297
53	64 (151)	25.08	6190	1.133	1.133
54	65 (124,135)	25.21	1866	0.206	0.206
55	66 (144)	25.27	1281	0.374	0.374
56	67 (107,109,147)	25.34	451	0.082	0.082
57	68 (123)	25.42	182	0.032	0.032
58	69 (106,118,139,149)	25.53	14954	2.507	2.507
59	71 (114,134,143)	25.93	650	0.101	0.101
60	72 (122,131,133,142)	26.14	53	0.005	0.005
61	73 (146,165,188)	26.42	1561	0.232	0.232
62	74 (105,132,161)	26.54	6543	0.805	0.805
63	75 (153)	26.70	13082	1.796	1.796
64	77 (141)	27.24	4850	1.051	1.051
65	78 (179)	27.31	5029	0.925	0.925
66	79 (137)	27.51	83	0.013	0.013
67	80 (130,176)	27.67	1803	0.142	0.142
68	82 (138,163,164)	27.89	11240	1.612	1.612
69	83 (158,160,186)	28.07	1177	0.144	0.144
70	84 (126,129)	28.27	203	0.006	0.006
71	85 (166,178)	28.62	2503	0.705	0.705
72	87 (175,159)	28.92	500	0.111	0.111
73	88 (182,187)	29.07	15451	2.355	2.355
74	89 (128,162)	29.19	572	0.058	0.058
75	90 (183)	29.38	6726	1.062	1.062
76	91 (167)	29.63	160	0.016	0.016
77	92 (185)	29.98	2738	0.308	0.308
78	93 (174,181)	30.36	13069	2.046	2.046
79	94 (177)	30.62	6064	1.086	1.086
80	95 (156,171)	30.93	2852	0.475	0.475
81	96 (157,202)	31.19	1943	0.048	0.048
82	98 (173)	31.37	224	0.028	0.028
83	99 (201)	31.73	1449	0.275	0.275
84	100 (172,204)	31.98	1940	0.361	0.361

85	101 (192,197)	32.26	320	0.066	0.066
86	102 (180)	32.46	28901	3.859	3.859
87	103 (193)	32.70	1466	0.267	0.267
88	104 (191)	33.02	349	0.064	0.064
89	105 (200,169)	33.37	1780	0.295	0.295
90	106 (170)	34.52	8948	0.791	0.791
91	107 (190)	34.79	2430	0.270	0.270
92	108 (198)	35.64	651	0.080	0.080
93	109 (199)	35.90	12286	2.905	2.905
94	110 (196,203)	36.44	13583	2.883	2.883
95	111 (189)	37.62	128	0.012	0.012
96	112 (195)	39.16	4233	0.353	0.353
97	113 (208)	39.69	744	0.176	0.176
98	114 (207)	40.64	582	0.072	0.072
99	115 (194)	42.05	11910	1.152	1.152
100	116 (205)	42.96	556	0.074	0.074
101	117 (206)	48.08	4422	0.484	0.484
102	118 (209)	54.13	21	0.002	0.002
103	Sum			116.811	116.811



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Sample Name:	CCCS0727C	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	07/28/2009 05:44:06	Extract Volume:	1
Project Name:	GC25_Mar_2009	Date Processed:	07/30/2009 10:28:28
Sample Set Name:	GC25_072709c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062409	Current Time:	11:14:59
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC25-128-18

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.76	1596	8.173	8.173
2	4 (3)	12.89	599	6.062	6.062
3	5 (4,10)	13.50	1000	2.316	2.316
4	6 (7,9)	14.36	2474	0.745	0.745
5	7 (6)	14.67	1955	1.227	1.227
6	8 (5,8)	14.86	8226	9.364	9.364
7	10 (19)	15.50	599	0.243	0.243
8	13 (12,13)	16.23	378	0.152	0.152
9	14 (15,18)	16.36	7938	2.863	2.863
10	15 (17)	16.45	3555	2.752	2.752
11	16 (24,27)	16.74	815	0.203	0.203
12	17 (16,32)	17.00	6838	2.926	2.926
13	19 (23,34,54)	17.46	134	0.045	0.045
14	20 (29)	17.63	196	0.043	0.043
15	21 (26)	17.76	1798	0.580	0.580
16	22 (25)	17.84	1025	0.244	0.244
17	23 (31)	18.04	10774	2.765	2.765
18	24 (28,50)	18.09	12729	2.999	2.999
19	25 (20,21,33,53)	18.45	9378	2.842	2.842
20	26 (22,51)	18.68	6221	1.974	1.974
21	27 (45)	18.91	2397	0.707	0.707
22	29 (46)	19.18	987	0.330	0.330
23	31 (52,69,73)	19.48	9761	3.779	3.779
24	32 (43,49)	19.64	8060	1.558	1.558
25	33 (38,47)	19.76	3835	0.521	0.521
26	34 (48,75)	19.82	3497	0.688	0.688
27	36 (35)	20.04	145	0.068	0.068
28	37 (104,44)	20.22	11980	3.014	3.014
29	38 (37,42,59)	20.35	6871	2.074	2.074
30	39 (41,64,71,72)	20.69	13488	2.586	2.586
31	41 (68,96)	20.85	160	0.051	0.051
32	42 (40)	20.96	3074	0.738	0.738
33	43 (57,103)	21.21	129	0.029	0.029

CCCS0727C

1 of 3

Print Date: 8/1/2009  
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34	44 (58,67,100)	21.37	464	0.077	0.077
35	45 (63)	21.53	716	0.122	0.122
36	46 (74,94,61)	21.70	7225	0.935	0.935
37	47 (70)	21.84	13607	2.222	2.222
38	48 (66,76,98,80,93,95,	21.95	18134	4.451	4.451
39	49 (55,91,121)	22.25	1567	0.351	0.351
40	50 (56,60)	22.56	12403	1.990	1.990
41	51 (84,92,155)	22.80	3498	1.561	1.561
42	52 (89)	22.90	316	0.071	0.071
43	53 (90,101)	23.06	6456	1.284	1.284
44	54 (79,99,113)	23.25	3114	0.404	0.404
45	55 (119,150)	23.51	154	0.013	0.013
46	56 (78,83,112,108)	23.63	564	0.128	0.128
47	57 (97,152,86)	23.84	2767	0.423	0.423
48	58 (81,87,117,125,115)	24.01	4802	0.840	0.840
49	59 (116,85,111)	24.16	2593	0.378	0.378
50	60 (120,136)	24.29	2533	0.460	0.460
51	61 (77,110,148)	24.41	7396	1.463	1.463
52	63 (82)	24.78	1951	0.307	0.307
53	64 (151)	25.08	6320	1.138	1.138
54	65 (124,135)	25.21	1807	0.196	0.196
55	66 (144)	25.27	1372	0.394	0.394
56	67 (107,109,147)	25.33	383	0.069	0.069
57	68 (123)	25.43	154	0.027	0.027
58	69 (106,118,139,149)	25.53	15161	2.499	2.499
59	71 (114,134,143)	25.93	704	0.108	0.108
60	72 (122,131,133,142)	26.13	72	0.006	0.006
61	73 (146,165,188)	26.42	1573	0.230	0.230
62	74 (105,132,161)	26.55	6697	0.810	0.810
63	75 (153)	26.70	13434	1.813	1.813
64	77 (141)	27.24	5138	1.095	1.095
65	78 (179)	27.30	5544	1.002	1.002
66	79 (137)	27.50	144	0.023	0.023
67	80 (130,176)	27.66	1965	0.152	0.152
68	82 (138,163,164)	27.89	11473	1.618	1.618
69	83 (158,160,186)	28.07	1191	0.143	0.143
70	84 (126,129)	28.29	190	0.005	0.005
71	85 (166,178)	28.62	2709	0.750	0.750
72	87 (175,159)	28.93	555	0.122	0.122
73	88 (182,187)	29.07	15895	2.382	2.382
74	89 (128,162)	29.20	603	0.060	0.060
75	90 (183)	29.38	6976	1.084	1.084
76	91 (167)	29.65	253	0.025	0.025
77	92 (185)	29.99	2989	0.331	0.331
78	93 (174,181)	30.36	13478	2.075	2.075
79	94 (177)	30.63	6329	1.115	1.115
80	95 (156,171)	30.93	3072	0.503	0.503
81	96 (157,202)	31.19	2045	0.050	0.050
82	98 (173)	31.36	175	0.021	0.021
83	99 (201)	31.74	1511	0.282	0.282
84	100 (172,204)	31.98	2059	0.377	0.377

85	101 (192,197)	32.28	390	0.079	0.079
86	102 (180)	32.46	29759	3.908	3.908
87	103 (193)	32.70	1643	0.294	0.294
88	104 (191)	33.03	527	0.095	0.095
89	105 (200,169)	33.37	1974	0.321	0.321
90	106 (170)	34.52	9188	0.799	0.799
91	107 (190)	34.79	2599	0.284	0.284
92	108 (198)	35.65	821	0.099	0.099
93	109 (199)	35.90	12837	2.984	2.984
94	110 (196,203)	36.44	13950	2.911	2.911
95	111 (189)	37.60	188	0.017	0.017
96	112 (195)	39.16	4465	0.366	0.366
97	113 (208)	39.69	1012	0.236	0.236
98	114 (207)	40.65	622	0.075	0.075
99	115 (194)	42.05	12416	1.181	1.181
100	116 (205)	42.95	522	0.068	0.068
101	117 (206)	48.08	4676	0.503	0.503
102	118 (209)	54.17	27	0.002	0.002
103	Sum			116.870	116.870



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Sample Name:	CCCS0728A	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	07/28/2009 11:11:30	Extract Volume:	1
Project Name:	GC25_Mar_2009	Date Processed:	07/28/2009 22:17:22
Sample Set Name:	GC25_072709c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062409	Current Time:	11:14:59
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC25-128-23

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.76	1349	8.027	8.027
2	4 (3)	12.89	471	5.535	5.535
3	5 (4,10)	13.50	868	2.336	2.336
4	6 (7,9)	14.36	2147	0.752	0.752
5	7 (6)	14.67	1688	1.231	1.231
6	8 (5,8)	14.86	7203	9.529	9.529
7	10 (19)	15.50	461	0.217	0.217
8	13 (12,13)	16.23	353	0.165	0.165
9	14 (15,18)	16.36	6897	2.891	2.891
10	15 (17)	16.45	3077	2.768	2.768
11	16 (24,27)	16.75	726	0.210	0.210
12	17 (16,32)	17.00	5892	2.930	2.930
13	19 (23,34,54)	17.46	82	0.032	0.032
14	20 (29)	17.64	185	0.047	0.047
15	21 (26)	17.76	1579	0.592	0.592
16	22 (25)	17.84	911	0.252	0.252
17	23 (31)	18.04	9479	2.827	2.827
18	24 (28,50)	18.09	10935	2.994	2.994
19	25 (20,21,33,53)	18.45	8160	2.873	2.873
20	26 (22,51)	18.68	5373	1.981	1.981
21	27 (45)	18.91	2048	0.702	0.702
22	29 (46)	19.18	774	0.300	0.300
23	31 (52,69,73)	19.48	8455	3.803	3.803
24	32 (43,49)	19.64	6968	1.565	1.565
25	33 (38,47)	19.76	3364	0.531	0.531
26	34 (48,75)	19.82	3020	0.690	0.690
27	36 (35)	20.03	75	0.041	0.041
28	37 (104,44)	20.21	10302	3.012	3.012
29	38 (37,42,59)	20.35	5970	2.094	2.094
30	39 (41,64,71,72)	20.69	11523	2.566	2.566
31	41 (68,96)	20.85	127	0.047	0.047
32	42 (40)	20.96	2559	0.714	0.714
33	43 (57,103)	21.20	139	0.037	0.037

CCCS0728A

1 of 3

Print Date: 8/1/2009  
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34	44 (58,67,100)	21.38	409	0.079	0.079
35	45 (63)	21.54	634	0.126	0.126
36	46 (74,94,61)	21.70	6270	0.943	0.943
37	47 (70)	21.84	11687	2.217	2.217
38	48 (66,76,98,80,93,95,	21.95	15700	4.478	4.478
39	49 (55,91,121)	22.25	1514	0.394	0.394
40	50 (56,60)	22.56	10484	1.954	1.954
41	51 (84,92,155)	22.80	2967	1.539	1.539
42	52 (89)	22.90	260	0.068	0.068
43	53 (90,101)	23.06	5546	1.281	1.281
44	54 (79,99,113)	23.25	2625	0.396	0.396
45	55 (119,150)	23.53	136	0.013	0.013
46	56 (78,83,112,108)	23.63	468	0.124	0.124
47	57 (97,152,86)	23.84	2292	0.407	0.407
48	58 (81,87,117,125,115)	24.01	4021	0.817	0.817
49	59 (116,85,111)	24.16	2171	0.368	0.368
50	60 (120,136)	24.29	2132	0.449	0.449
51	61 (77,110,148)	24.42	6293	1.446	1.446
52	63 (82)	24.79	1619	0.296	0.296
53	64 (151)	25.08	5432	1.136	1.136
54	65 (124,135)	25.22	1480	0.186	0.186
55	66 (144)	25.27	1186	0.396	0.396
56	67 (107,109,147)	25.34	378	0.079	0.079
57	68 (123)	25.46	144	0.029	0.029
58	69 (106,118,139,149)	25.53	12907	2.472	2.472
59	71 (114,134,143)	25.93	572	0.102	0.102
60	72 (122,131,133,142)	26.13	93	0.009	0.009
61	73 (146,165,188)	26.42	1336	0.227	0.227
62	74 (105,132,161)	26.55	5705	0.802	0.802
63	75 (153)	26.70	11588	1.817	1.817
64	77 (141)	27.24	4162	1.030	1.030
65	78 (179)	27.31	4831	1.015	1.015
66	79 (137)	27.52	127	0.024	0.024
67	80 (130,176)	27.67	1628	0.146	0.146
68	82 (138,163,164)	27.89	9795	1.605	1.605
69	83 (158,160,186)	28.07	1026	0.143	0.143
70	84 (126,129)	28.29	249	0.008	0.008
71	85 (166,178)	28.62	2240	0.720	0.720
72	87 (175,159)	28.93	453	0.115	0.115
73	88 (182,187)	29.07	13603	2.368	2.368
74	89 (128,162)	29.19	474	0.055	0.055
75	90 (183)	29.38	5869	1.059	1.059
76	91 (167)	29.64	142	0.016	0.016
77	92 (185)	29.98	2435	0.313	0.313
78	93 (174,181)	30.36	11552	2.066	2.066
79	94 (177)	30.63	5349	1.095	1.095
80	95 (156,171)	30.93	2557	0.487	0.487
81	96 (157,202)	31.20	1758	0.050	0.050
82	98 (173)	31.37	217	0.030	0.030
83	99 (201)	31.74	1252	0.271	0.271
84	100 (172,204)	31.99	1683	0.358	0.358

85	101 (192,197)	32.27	255	0.060	0.060
86	102 (180)	32.46	25154	3.837	3.837
87	103 (193)	32.71	1360	0.283	0.283
88	104 (191)	33.02	467	0.098	0.098
89	105 (200,169)	33.37	1630	0.308	0.308
90	106 (170)	34.52	7710	0.779	0.779
91	107 (190)	34.79	2029	0.258	0.258
92	108 (198)	35.67	586	0.083	0.083
93	109 (199)	35.90	10750	2.904	2.904
94	110 (196,203)	36.43	11819	2.865	2.865
95	111 (189)	37.60	233	0.025	0.025
96	112 (195)	39.17	3706	0.353	0.353
97	113 (208)	39.68	737	0.199	0.199
98	114 (207)	40.63	566	0.080	0.080
99	115 (194)	42.04	10438	1.153	1.153
100	116 (205)	42.96	559	0.084	0.084
101	117 (206)	48.09	3731	0.466	0.466
102	118 (209)	54.13	9	0.001	0.001
103	Sum			115.749	115.749



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Sample Name:	CCCS0728B	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	07/28/2009 18:50:12	Extract Volume:	1
Project Name:	GC25_Mar_2009	Date Processed:	07/28/2009 22:20:45
Sample Set Name:	GC25_072809b	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062409	Current Time:	11:15:00
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC25-129-7

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.76	1594	7.925	7.925
2	4 (3)	12.89	561	5.506	5.506
3	5 (4,10)	13.50	941	2.117	2.117
4	6 (7,9)	14.36	2472	0.723	0.723
5	7 (6)	14.67	1972	1.202	1.202
6	8 (5,8)	14.86	8299	9.174	9.174
7	10 (19)	15.50	551	0.217	0.217
8	13 (12,13)	16.23	448	0.175	0.175
9	14 (15,18)	16.36	8075	2.829	2.829
10	15 (17)	16.45	3587	2.697	2.697
11	16 (24,27)	16.75	836	0.203	0.203
12	17 (16,32)	17.00	6876	2.858	2.858
13	19 (23,34,54)	17.46	103	0.034	0.034
14	20 (29)	17.63	170	0.036	0.036
15	21 (26)	17.76	1835	0.575	0.575
16	22 (25)	17.84	1013	0.234	0.234
17	23 (31)	18.04	10947	2.729	2.729
18	24 (28,50)	18.09	12967	2.967	2.967
19	25 (20,21,33,53)	18.45	9625	2.833	2.833
20	26 (22,51)	18.68	6373	1.964	1.964
21	27 (45)	18.91	2387	0.684	0.684
22	29 (46)	19.18	951	0.309	0.309
23	31 (52,69,73)	19.48	9881	3.715	3.715
24	32 (43,49)	19.64	8188	1.537	1.537
25	33 (38,47)	19.76	3997	0.528	0.528
26	34 (48,75)	19.82	3590	0.686	0.686
27	36 (35)	20.04	124	0.057	0.057
28	37 (104,44)	20.22	12142	2.967	2.967
29	38 (37,42,59)	20.34	7100	2.081	2.081
30	39 (41,64,71,72)	20.69	13624	2.536	2.536
31	41 (68,96)	20.86	148	0.046	0.046
32	42 (40)	20.96	3071	0.716	0.716
33	43 (57,103)	21.20	83	0.018	0.018

CCCS0728B

1 of 3

Print Date: 8/1/2009  
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34	44 (58,67,100)	21.37	478	0.077	0.077
35	45 (63)	21.53	741	0.123	0.123
36	46 (74,94,61)	21.70	7341	0.923	0.923
37	47 (70)	21.84	13772	2.184	2.184
38	48 (66,76,98,80,93,95,	21.95	18350	4.373	4.373
39	49 (55,91,121)	22.25	1670	0.363	0.363
40	50 (56,60)	22.56	12377	1.928	1.928
41	51 (84,92,155)	22.80	3445	1.493	1.493
42	52 (89)	22.91	251	0.055	0.055
43	53 (90,101)	23.05	6468	1.249	1.249
44	54 (79,99,113)	23.25	3136	0.395	0.395
45	55 (119,150)	23.53	196	0.016	0.016
46	56 (78,83,112,108)	23.62	565	0.125	0.125
47	57 (97,152,86)	23.84	2756	0.409	0.409
48	58 (81,87,117,125,115)	24.01	4826	0.819	0.819
49	59 (116,85,111)	24.16	2626	0.372	0.372
50	60 (120,136)	24.28	2582	0.455	0.455
51	61 (77,110,148)	24.41	7421	1.425	1.425
52	63 (82)	24.78	1972	0.301	0.301
53	64 (151)	25.08	6376	1.114	1.114
54	65 (124,135)	25.22	1778	0.187	0.187
55	66 (144)	25.28	1353	0.378	0.378
56	67 (107,109,147)	25.33	458	0.080	0.080
57	68 (123)	25.42	136	0.023	0.023
58	69 (106,118,139,149)	25.53	15241	2.439	2.439
59	71 (114,134,143)	25.93	754	0.112	0.112
60	72 (122,131,133,142)	26.13	149	0.012	0.012
61	73 (146,165,188)	26.42	1557	0.221	0.221
62	74 (105,132,161)	26.55	6772	0.796	0.796
63	75 (153)	26.70	13601	1.783	1.783
64	77 (141)	27.23	5086	1.053	1.053
65	78 (179)	27.30	5414	0.950	0.950
66	79 (137)	27.52	161	0.026	0.026
67	80 (130,176)	27.67	1912	0.144	0.144
68	82 (138,163,164)	27.89	11629	1.592	1.592
69	83 (158,160,186)	28.07	1198	0.140	0.140
70	84 (126,129)	28.28	216	0.006	0.006
71	85 (166,178)	28.62	2790	0.750	0.750
72	87 (175,159)	28.93	526	0.112	0.112
73	88 (182,187)	29.07	16065	2.338	2.338
74	89 (128,162)	29.20	581	0.056	0.056
75	90 (183)	29.38	7010	1.057	1.057
76	91 (167)	29.65	156	0.015	0.015
77	92 (185)	29.98	2995	0.322	0.322
78	93 (174,181)	30.36	13615	2.035	2.035
79	94 (177)	30.63	6286	1.075	1.075
80	95 (156,171)	30.93	3005	0.478	0.478
81	96 (157,202)	31.19	2045	0.048	0.048
82	98 (173)	31.35	212	0.025	0.025
83	99 (201)	31.73	1463	0.265	0.265
84	100 (172,204)	31.98	2003	0.356	0.356

85	101 (192,197)	32.29	375	0.074	0.074
86	102 (180)	32.46	30087	3.836	3.836
87	103 (193)	32.71	1500	0.261	0.261
88	104 (191)	33.01	462	0.081	0.081
89	105 (200,169)	33.37	1815	0.287	0.287
90	106 (170)	34.52	9275	0.783	0.783
91	107 (190)	34.79	2511	0.267	0.267
92	108 (198)	35.67	695	0.082	0.082
93	109 (199)	35.89	12616	2.849	2.849
94	110 (196,203)	36.44	13793	2.795	2.795
95	111 (189)	37.60	309	0.027	0.027
96	112 (195)	39.17	4450	0.354	0.354
97	113 (208)	39.68	680	0.153	0.153
98	114 (207)	40.61	523	0.061	0.061
99	115 (194)	42.04	12668	1.170	1.170
100	116 (205)	42.96	605	0.076	0.076
101	117 (206)	48.08	4396	0.459	0.459
102	118 (209)	54.13	12	0.001	0.001
103	Sum			113.566	113.566



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Sample Name:	CCCS0728C	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	07/29/2009 05:45:14	Extract Volume:	1
Project Name:	GC25_Mar_2009	Date Processed:	07/29/2009 12:05:04
Sample Set Name:	GC25_072809b	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062409	Current Time:	11:15:01
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC25-129-17

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.76	1652	8.007	8.007
2	4 (3)	12.89	550	5.261	5.261
3	5 (4,10)	13.50	1001	2.195	2.195
4	6 (7,9)	14.36	2603	0.743	0.743
5	7 (6)	14.67	2011	1.195	1.195
6	8 (5,8)	14.86	8624	9.296	9.296
7	10 (19)	15.50	627	0.241	0.241
8	13 (12,13)	16.23	455	0.174	0.174
9	14 (15,18)	16.36	8308	2.838	2.838
10	15 (17)	16.45	3752	2.750	2.750
11	16 (24,27)	16.75	866	0.204	0.204
12	17 (16,32)	17.00	7168	2.905	2.905
13	19 (23,34,54)	17.46	30	0.010	0.010
14	20 (29)	17.63	179	0.037	0.037
15	21 (26)	17.76	1885	0.576	0.576
16	22 (25)	17.84	1061	0.239	0.239
17	23 (31)	18.04	11591	2.817	2.817
18	24 (28,50)	18.09	13048	2.910	2.910
19	25 (20,21,33,53)	18.45	9769	2.803	2.803
20	26 (22,51)	18.68	6481	1.948	1.948
21	27 (45)	18.90	2437	0.681	0.681
22	29 (46)	19.18	977	0.309	0.309
23	31 (52,69,73)	19.48	10134	3.714	3.714
24	32 (43,49)	19.64	8403	1.538	1.538
25	33 (38,47)	19.76	4140	0.533	0.533
26	34 (48,75)	19.82	3674	0.684	0.684
27	36 (35)	20.04	76	0.034	0.034
28	37 (104,44)	20.21	12536	2.987	2.987
29	38 (37,42,59)	20.34	7214	2.061	2.061
30	39 (41,64,71,72)	20.69	14021	2.545	2.545
31	41 (68,96)	20.86	153	0.046	0.046
32	42 (40)	20.95	3133	0.712	0.712
33	43 (57,103)	21.21	130	0.028	0.028

CCCS0728C

1 of 3

Print Date: 8/1/2009  
Nea Lims Version : 4.4.4.5

34	44 (58,67,100)	21.38	456	0.072	0.072
35	45 (63)	21.53	705	0.114	0.114
36	46 (74,94,61)	21.70	7512	0.921	0.921
37	47 (70)	21.84	14122	2.183	2.183
38	48 (66,76,98,80,93,95,	21.95	18768	4.361	4.361
39	49 (55,91,121)	22.26	1691	0.358	0.358
40	50 (56,60)	22.56	12717	1.931	1.931
41	51 (84,92,155)	22.80	3580	1.513	1.513
42	52 (89)	22.91	258	0.055	0.055
43	53 (90,101)	23.06	6656	1.253	1.253
44	54 (79,99,113)	23.25	3211	0.394	0.394
45	55 (119,150)	23.52	170	0.013	0.013
46	56 (78,83,112,108)	23.62	565	0.122	0.122
47	57 (97,152,86)	23.84	2831	0.410	0.410
48	58 (81,87,117,125,115	24.01	4990	0.826	0.826
49	59 (116,85,111)	24.16	2665	0.368	0.368
50	60 (120,136)	24.29	2612	0.449	0.449
51	61 (77,110,148)	24.41	7635	1.429	1.429
52	63 (82)	24.78	2031	0.302	0.302
53	64 (151)	25.08	6552	1.116	1.116
54	65 (124,135)	25.22	1870	0.192	0.192
55	66 (144)	25.27	1382	0.376	0.376
56	67 (107,109,147)	25.33	439	0.074	0.074
57	68 (123)	25.44	168	0.028	0.028
58	69 (106,118,139,149)	25.53	15658	2.443	2.443
59	71 (114,134,143)	25.93	738	0.107	0.107
60	72 (122,131,133,142)	26.13	118	0.010	0.010
61	73 (146,165,188)	26.42	1625	0.225	0.225
62	74 (105,132,161)	26.54	6893	0.790	0.790
63	75 (153)	26.70	13877	1.773	1.773
64	77 (141)	27.24	5216	1.052	1.052
65	78 (179)	27.30	5697	0.975	0.975
66	79 (137)	27.52	161	0.025	0.025
67	80 (130,176)	27.66	1939	0.142	0.142
68	82 (138,163,164)	27.89	11934	1.593	1.593
69	83 (158,160,186)	28.07	1268	0.144	0.144
70	84 (126,129)	28.28	354	0.009	0.009
71	85 (166,178)	28.62	2887	0.757	0.757
72	87 (175,159)	28.92	559	0.116	0.116
73	88 (182,187)	29.07	16405	2.327	2.327
74	89 (128,162)	29.18	570	0.054	0.054
75	90 (183)	29.38	7119	1.047	1.047
76	91 (167)	29.63	131	0.012	0.012
77	92 (185)	29.98	2974	0.312	0.312
78	93 (174,181)	30.36	13879	2.022	2.022
79	94 (177)	30.63	6448	1.075	1.075
80	95 (156,171)	30.93	3107	0.482	0.482
81	96 (157,202)	31.19	1979	0.046	0.046
82	98 (173)	31.38	179	0.020	0.020
83	99 (201)	31.74	1481	0.261	0.261
84	100 (172,204)	31.98	2017	0.349	0.349

85	101 (192,197)	32.27	302	0.058	0.058
86	102 (180)	32.46	30800	3.829	3.829
87	103 (193)	32.71	1609	0.273	0.273
88	104 (191)	33.00	529	0.090	0.090
89	105 (200,169)	33.37	1922	0.296	0.296
90	106 (170)	34.52	9552	0.786	0.786
91	107 (190)	34.79	2674	0.277	0.277
92	108 (198)	35.67	813	0.093	0.093
93	109 (199)	35.90	13100	2.884	2.884
94	110 (196,203)	36.44	14257	2.817	2.817
95	111 (189)	37.61	148	0.013	0.013
96	112 (195)	39.16	4659	0.362	0.362
97	113 (208)	39.70	878	0.193	0.193
98	114 (207)	40.63	657	0.075	0.075
99	115 (194)	42.03	12771	1.150	1.150
100	116 (205)	42.93	645	0.079	0.079
101	117 (206)	48.09	4972	0.506	0.506
102	118 (209)	54.16	54	0.005	0.005
103	Sum			113.838	113.838



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Sample Name:	CCCS0728D	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	07/29/2009 07:56:06	Extract Volume:	1
Project Name:	GC25_Mar_2009	Date Processed:	07/29/2009 12:02:20
Sample Set Name:	GC25_072809b	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062409	Current Time:	11:15:01
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC25-129-19

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.76	1750	7.989	7.989
2	4 (3)	12.89	620	5.591	5.591
3	5 (4,10)	13.50	1117	2.307	2.307
4	6 (7,9)	14.36	2722	0.731	0.731
5	7 (6)	14.67	2188	1.225	1.225
6	8 (5,8)	14.86	9292	9.433	9.433
7	10 (19)	15.50	641	0.232	0.232
8	13 (12,13)	16.23	510	0.184	0.184
9	14 (15,18)	16.36	8905	2.864	2.864
10	15 (17)	16.45	4049	2.795	2.795
11	16 (24,27)	16.75	970	0.216	0.216
12	17 (16,32)	17.00	7670	2.927	2.927
13	19 (23,34,54)	17.46	111	0.034	0.034
14	20 (29)	17.63	188	0.037	0.037
15	21 (26)	17.76	2044	0.588	0.588
16	22 (25)	17.84	1131	0.240	0.240
17	23 (31)	18.04	12400	2.838	2.838
18	24 (28,50)	18.09	13995	2.940	2.940
19	25 (20,21,33,53)	18.45	10440	2.821	2.821
20	26 (22,51)	18.68	6903	1.953	1.953
21	27 (45)	18.91	2588	0.681	0.681
22	29 (46)	19.18	1030	0.307	0.307
23	31 (52,69,73)	19.48	10802	3.728	3.728
24	32 (43,49)	19.65	8933	1.539	1.539
25	33 (38,47)	19.76	4364	0.529	0.529
26	34 (48,75)	19.82	3851	0.675	0.675
27	36 (35)	20.04	169	0.071	0.071
28	37 (104,44)	20.21	13442	3.016	3.016
29	38 (37,42,59)	20.35	7779	2.094	2.094
30	39 (41,64,71,72)	20.69	15089	2.579	2.579
31	41 (68,96)	20.86	196	0.056	0.056
32	42 (40)	20.96	3413	0.731	0.731
33	43 (57,103)	21.20	149	0.030	0.030

CCCS0728D

1 of 3

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34	44 (58,67,100)	21.37	492	0.073	0.073
35	45 (63)	21.53	794	0.121	0.121
36	46 (74,94,61)	21.70	8024	0.926	0.926
37	47 (70)	21.84	15157	2.207	2.207
38	48 (66,76,98,80,93,95,	21.95	20106	4.400	4.400
39	49 (55,91,121)	22.26	1820	0.363	0.363
40	50 (56,60)	22.56	13666	1.955	1.955
41	51 (84,92,155)	22.80	3838	1.527	1.527
42	52 (89)	22.91	298	0.060	0.060
43	53 (90,101)	23.05	7164	1.270	1.270
44	54 (79,99,113)	23.25	3485	0.403	0.403
45	55 (119,150)	23.52	208	0.015	0.015
46	56 (78,83,112,108)	23.62	597	0.121	0.121
47	57 (97,152,86)	23.84	3041	0.415	0.415
48	58 (81,87,117,125,115	24.01	5319	0.829	0.829
49	59 (116,85,111)	24.16	2810	0.365	0.365
50	60 (120,136)	24.29	2796	0.452	0.452
51	61 (77,110,148)	24.41	8091	1.426	1.426
52	63 (82)	24.78	2159	0.303	0.303
53	64 (151)	25.08	7062	1.133	1.133
54	65 (124,135)	25.22	2003	0.194	0.194
55	66 (144)	25.27	1515	0.388	0.388
56	67 (107,109,147)	25.34	517	0.083	0.083
57	68 (123)	25.43	124	0.019	0.019
58	69 (106,118,139,149)	25.53	16872	2.480	2.480
59	71 (114,134,143)	25.93	852	0.116	0.116
60	72 (122,131,133,142)	26.14	159	0.012	0.012
61	73 (146,165,188)	26.42	1759	0.229	0.229
62	74 (105,132,161)	26.55	7442	0.803	0.803
63	75 (153)	26.70	14947	1.799	1.799
64	77 (141)	27.24	5548	1.054	1.054
65	78 (179)	27.30	6274	1.011	1.011
66	79 (137)	27.50	115	0.016	0.016
67	80 (130,176)	27.67	2261	0.156	0.156
68	82 (138,163,164)	27.89	12776	1.606	1.606
69	83 (158,160,186)	28.07	1345	0.144	0.144
70	84 (126,129)	28.27	303	0.007	0.007
71	85 (166,178)	28.62	2974	0.734	0.734
72	87 (175,159)	28.93	567	0.111	0.111
73	88 (182,187)	29.07	17555	2.345	2.345
74	89 (128,162)	29.20	666	0.059	0.059
75	90 (183)	29.38	7692	1.065	1.065
76	91 (167)	29.64	201	0.018	0.018
77	92 (185)	29.98	3236	0.319	0.319
78	93 (174,181)	30.36	15027	2.062	2.062
79	94 (177)	30.63	7040	1.106	1.106
80	95 (156,171)	30.93	3400	0.497	0.497
81	96 (157,202)	31.19	2308	0.050	0.050
82	98 (173)	31.36	254	0.027	0.027
83	99 (201)	31.73	1758	0.292	0.292
84	100 (172,204)	31.98	2342	0.382	0.382

85	101 (192,197)	32.28	495	0.090	0.090
86	102 (180)	32.46	33229	3.890	3.890
87	103 (193)	32.70	1820	0.291	0.291
88	104 (191)	33.02	539	0.087	0.087
89	105 (200,169)	33.37	2240	0.325	0.325
90	106 (170)	34.52	10369	0.804	0.804
91	107 (190)	34.79	2922	0.285	0.285
92	108 (198)	35.66	1007	0.109	0.109
93	109 (199)	35.90	14254	2.955	2.955
94	110 (196,203)	36.44	15427	2.870	2.870
95	111 (189)	37.63	303	0.025	0.025
96	112 (195)	39.17	5049	0.369	0.369
97	113 (208)	39.68	946	0.196	0.196
98	114 (207)	40.63	710	0.077	0.077
99	115 (194)	42.05	13831	1.173	1.173
100	116 (205)	42.94	652	0.076	0.076
101	117 (206)	48.09	5201	0.499	0.499
102	118 (209)	54.12	28	0.002	0.002
103	Sum			115.651	115.651



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Sample Name:	CCCS0729A	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	07/29/2009 19:00:28	Extract Volume:	1
Project Name:	GC25_Mar_2009	Date Processed:	07/29/2009 20:59:38
Sample Set Name:	GC25_072909c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_062409	Current Time:	11:15:02
Run Time:	60 Minutes	Current Date:	8/1/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC25-130-5

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.76	1523	7.782	7.782
2	4 (3)	12.89	533	5.381	5.381
3	5 (4,10)	13.50	946	2.189	2.189
4	6 (7,9)	14.36	2438	0.733	0.733
5	7 (6)	14.67	1897	1.189	1.189
6	8 (5,8)	14.86	8096	9.201	9.201
7	10 (19)	15.50	538	0.218	0.218
8	13 (12,13)	16.23	393	0.158	0.158
9	14 (15,18)	16.36	7818	2.815	2.815
10	15 (17)	16.45	3533	2.730	2.730
11	16 (24,27)	16.74	819	0.204	0.204
12	17 (16,32)	17.00	6629	2.832	2.832
13	19 (23,34,54)	17.48	91	0.031	0.031
14	20 (29)	17.63	179	0.039	0.039
15	21 (26)	17.76	1800	0.579	0.579
16	22 (25)	17.84	1011	0.241	0.241
17	23 (31)	18.04	10555	2.704	2.704
18	24 (28,50)	18.09	12712	2.991	2.991
19	25 (20,21,33,53)	18.45	9152	2.769	2.769
20	26 (22,51)	18.68	5980	1.895	1.895
21	27 (45)	18.91	2273	0.670	0.670
22	29 (46)	19.18	856	0.286	0.286
23	31 (52,69,73)	19.48	9546	3.689	3.689
24	32 (43,49)	19.64	7877	1.520	1.520
25	33 (38,47)	19.76	3841	0.521	0.521
26	34 (48,75)	19.82	3362	0.660	0.660
27	36 (35)	20.04	85	0.040	0.040
28	37 (104,44)	20.21	11735	2.948	2.948
29	38 (37,42,59)	20.34	6740	2.030	2.030
30	39 (41,64,71,72)	20.69	13187	2.523	2.523
31	41 (68,96)	20.86	164	0.052	0.052
32	42 (40)	20.96	2982	0.715	0.715
33	43 (57,103)	21.19	173	0.039	0.039

CCCS0729A

1 of 3

Print Date: 8/1/2009  
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34	44 (58,67,100)	21.38	459	0.076	0.076
35	45 (63)	21.53	681	0.116	0.116
36	46 (74,94,61)	21.70	7032	0.909	0.909
37	47 (70)	21.84	13245	2.158	2.158
38	48 (66,76,98,80,93,95,	21.95	17640	4.321	4.321
39	49 (55,91,121)	22.26	1528	0.341	0.341
40	50 (56,60)	22.56	11914	1.908	1.908
41	51 (84,92,155)	22.80	3436	1.531	1.531
42	52 (89)	22.90	264	0.059	0.059
43	53 (90,101)	23.05	6265	1.244	1.244
44	54 (79,99,113)	23.25	3003	0.389	0.389
45	55 (119,150)	23.53	159	0.013	0.013
46	56 (78,83,112,108)	23.63	546	0.124	0.124
47	57 (97,152,86)	23.83	2741	0.418	0.418
48	58 (81,87,117,125,115	24.01	4731	0.826	0.826
49	59 (116,85,111)	24.16	2467	0.359	0.359
50	60 (120,136)	24.29	2438	0.442	0.442
51	61 (77,110,148)	24.42	7103	1.402	1.402
52	63 (82)	24.78	1903	0.299	0.299
53	64 (151)	25.08	6131	1.101	1.101
54	65 (124,135)	25.22	1732	0.187	0.187
55	66 (144)	25.28	1286	0.369	0.369
56	67 (107,109,147)	25.34	364	0.065	0.065
57	68 (123)	25.43	125	0.022	0.022
58	69 (106,118,139,149)	25.52	14636	2.408	2.408
59	71 (114,134,143)	25.92	690	0.106	0.106
60	72 (122,131,133,142)	26.12	58	0.005	0.005
61	73 (146,165,188)	26.42	1558	0.227	0.227
62	74 (105,132,161)	26.55	6533	0.789	0.789
63	75 (153)	26.70	13038	1.756	1.756
64	77 (141)	27.24	4698	0.999	0.999
65	78 (179)	27.30	5021	0.906	0.906
66	79 (137)	27.56	104	0.017	0.017
67	80 (130,176)	27.67	1767	0.136	0.136
68	82 (138,163,164)	27.89	11182	1.574	1.574
69	83 (158,160,186)	28.07	1140	0.137	0.137
70	84 (126,129)	28.28	240	0.007	0.007
71	85 (166,178)	28.62	2595	0.717	0.717
72	87 (175,159)	28.93	524	0.115	0.115
73	88 (182,187)	29.07	15485	2.316	2.316
74	89 (128,162)	29.20	560	0.056	0.056
75	90 (183)	29.38	6719	1.042	1.042
76	91 (167)	29.65	146	0.014	0.014
77	92 (185)	29.99	2743	0.303	0.303
78	93 (174,181)	30.36	13101	2.013	2.013
79	94 (177)	30.63	6025	1.059	1.059
80	95 (156,171)	30.93	2922	0.478	0.478
81	96 (157,202)	31.20	1963	0.048	0.048
82	98 (173)	31.35	146	0.018	0.018
83	99 (201)	31.74	1467	0.273	0.273
84	100 (172,204)	31.98	1953	0.357	0.357

85	101 (192,197)	32.27	298	0.060	0.060
86	102 (180)	32.46	29001	3.801	3.801
87	103 (193)	32.70	1401	0.251	0.251
88	104 (191)	33.02	389	0.070	0.070
89	105 (200,169)	33.37	1757	0.286	0.286
90	106 (170)	34.52	8990	0.780	0.780
91	107 (190)	34.80	2463	0.269	0.269
92	108 (198)	35.66	701	0.085	0.085
93	109 (199)	35.90	12253	2.844	2.844
94	110 (196,203)	36.44	13650	2.844	2.844
95	111 (189)	37.63	207	0.019	0.019
96	112 (195)	39.17	4465	0.365	0.365
97	113 (208)	39.67	761	0.177	0.177
98	114 (207)	40.64	625	0.075	0.075
99	115 (194)	42.04	12148	1.154	1.154
100	116 (205)	42.95	595	0.077	0.077
101	117 (206)	48.08	4265	0.458	0.458
102	118 (209)	54.12	10	0.001	0.001
103	Sum			112.543	112.543

# QC Sample Raw Data

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: ORGANIC FREE WATER  
Sample Wt(Dry)/Vol: 1000 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03.DOC  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

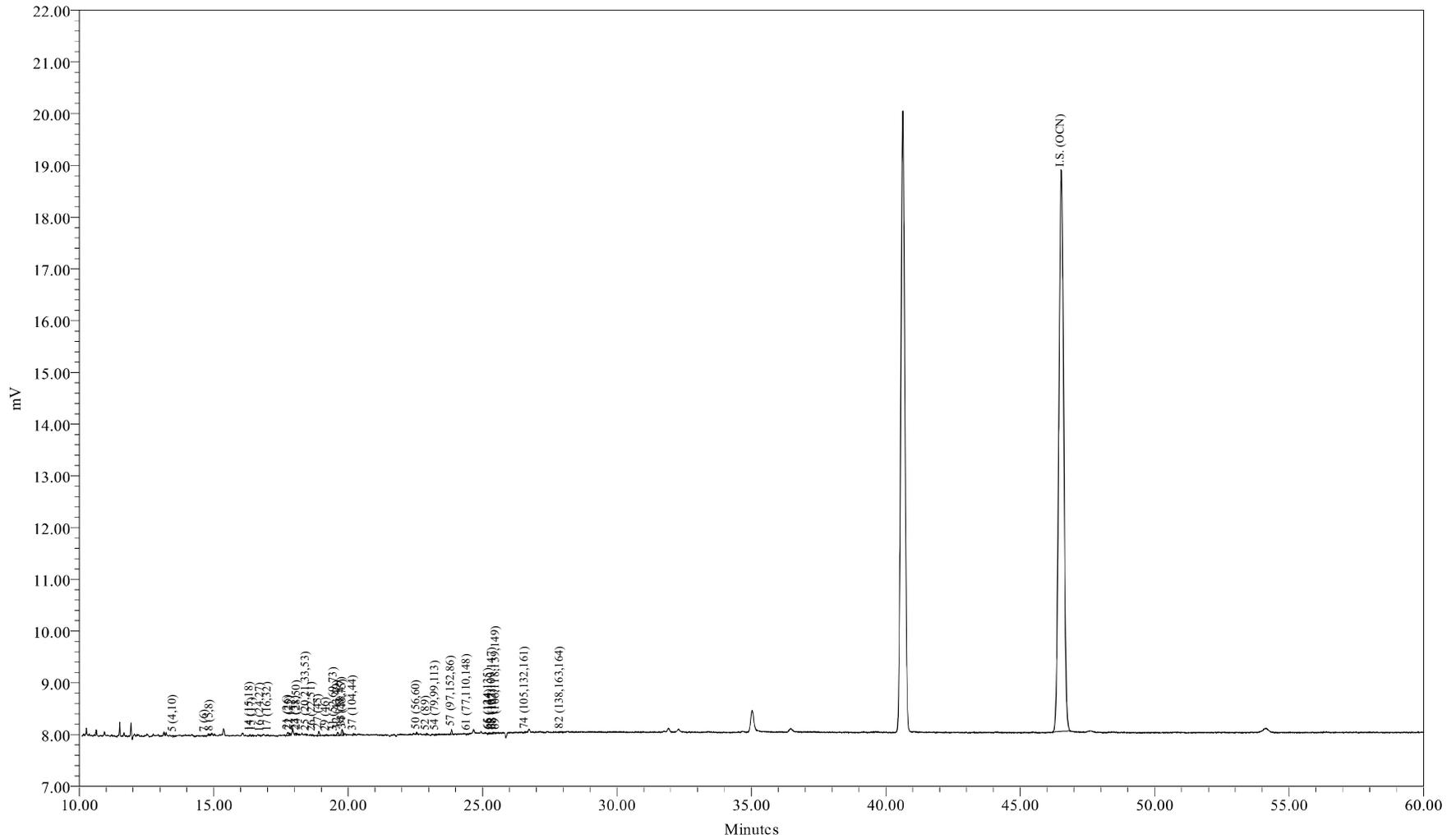
SDG No: 09070314  
LRF ID: CEBLK-99  
Client ID: CEBLK-99(METHOD BLANK)  
Lab Sample ID: AM11284B  
Lab File ID: GC25-128-4  
Date Received: \_\_\_\_\_  
Date Extracted: 07/27/2009  
Date/Time Analyzed: 07/27/2009 14:19  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 137121

Percent Recovery (50 - 150 %): 84.6

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

Visual Aroclor ID: No Aroclor Pattern Detected



Sample Name: AM11284B  
Sample ID: METHOD BLANK  
Date Acquired: 07/27/2009 14:19:36 EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-T28-4

Sample Name: AM11284B

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/27/2009 14:19:36  
 Lab Sample ID: AM11284B  
 LRF ID: CEBLK-99  
 Lab File ID: GC25-128-4

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <9.10 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	12.14	14.99
Tri	33.38	35.70
Tetra	37.77	35.61
Penta	11.83	9.96
Hexa	4.88	3.74
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001		0	0
A1242	23+24/31+28	0.0819	100	100
A1254SED	61/100		0	
A1254BIO	69+75+82/149+153+138			0
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.96

Meta + Para Cl / biphenyl Residue = 1.56

Total Cl / biphenyl Residue = 3.52

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/27/2009 14:19:36  
 Lab Sample ID: AM11284B  
 LRF ID: CEBLK-99  
 Lab File ID: GC25-128-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.75	188.7				0.529	2.19	U
3	12.78	188.7				6.63	1000	U
4	12.89	188.7				0.355	1.28	U
5	13.51	223.1	33	0.262	1.18	0.134	0.621	J
6	14.35	223.1				0.0721	0.219	U
7	14.66	223.1	54			0.158	0.347	U
8	14.87	223.1	85			0.542	2.56	U
9	15.42	223.1				0.294	25.0	U
10	15.50	257.5				0.0604	0.102	U
11	15.97	257.5				0.198	25.0	U
12	16.03	223.1				0.306	25.0	U
13	16.23	223.1				0.0559	0.0975	U
14	16.35	249.0	72			0.128	0.676	U
15	16.45	257.5	57	0.153	0.593	0.143	0.676	J
16	16.74	257.5	6			0.0374	0.0475	U
17	17.02	257.5	68			0.166	0.713	U
19	17.46	267.9				0.128	25.0	U
20	17.63	257.5				0.0108	0.0194	U
21	17.76	257.5	222	0.379	1.47	0.0606	0.132	
22	17.84	257.5	154	0.189	0.735	0.0426	0.0585	
23	18.05	257.5	113			0.487	0.753	U
24	18.10	257.5	104			0.211	0.964	U
25	18.45	259.5	27			0.105	0.726	U
26	18.67	258.7	28			0.120	0.530	U
27	18.91	292.0	280	0.418	1.43	0.0367	0.163	
28	19.04	257.5				0.375	25.0	U
29	19.19	292.0	62			0.127	0.127	U
30	19.31	257.5				0.120	25.0	U
31	19.47	292.0	34			0.204	0.872	U
32	19.61	292.0	190	0.116	0.396	0.0978	0.420	J
33	19.77	292.0	354	0.204	0.699	0.0656	0.183	
34	19.80	292.0	113	0.0777	0.266	0.0579	0.183	J
35	19.96	292.0				0.205	25.0	U
36	20.04	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.20	292.0	88			0.160	0.786	U
38	20.35	272.4				0.115	0.475	U
39	20.69	292.0				0.121	0.749	U
41	20.86	326.4				0.115	25.0	U
42	20.96	292.0				0.0968	0.172	U
43	21.21	298.9				0.152	25.0	U
44	21.38	298.9				0.0225	0.0402	U
45	21.53	292.0				0.0299	0.0384	U
46	21.70	292.0				0.0821	0.347	U
47	21.84	292.0				0.164	0.621	U
48	21.95	293.5				0.243	1.32	U
49	22.26	324.7				0.0376	0.0932	U
50	22.55	292.0	86			0.359	0.640	U
51	22.80	326.4				0.0888	0.329	U
52	22.91	326.4	45	0.0524	0.161	0.0384	0.0384	
53	23.06	326.4				0.0691	0.329	U
54	23.26	326.4	33			0.101	0.135	U
55	23.53	326.4				0.00644	0.0102	U
56	23.63	326.4				0.0647	0.0647	U
57	23.84	326.4	263	0.196	0.601	0.0435	0.102	U
58	24.01	326.4				0.0841	0.212	U
59	24.17	326.4				0.0484	0.128	U
60	24.29	360.9				0.0772	0.137	U
61	24.43	326.4	31			0.0668	0.389	U
62	24.69	360.9				0.113	25.0	U
63	24.79	326.4				0.0201	0.0804	U
64	25.08	360.9				0.0518	0.311	U
65	25.23	350.5	40	0.0227	0.0648	0.0149	0.0530	J
66	25.26	360.9	57	0.0894	0.248	0.0541	0.110	J
67	25.37	336.8	33			0.0348	0.0475	U
68	25.40	326.4	89			0.125	25.0	U
69	25.52	337.5	49			0.0938	0.731	U
70	25.64	360.9				0.0829	25.0	U
71	25.93	347.8				0.0348	0.0369	U
72	26.14	336.8				0.00638	0.0106	U
73	26.42	360.9				0.0320	0.0713	U
74	26.58	347.8	42			0.0721	0.248	U
75	26.70	360.9				0.109	0.538	U
76	26.81	360.9				0.107	25.0	U
77	27.24	360.9				0.0637	0.311	U
78	27.31	395.3				0.0470	0.267	U
79	27.51	360.9				0.0501	0.0501	U
80	27.68	360.9				0.0151	0.0475	U
82	27.90	360.9	69			0.108	0.493	U
83	28.08	360.9				0.0450	0.0457	U
84	28.29	360.9				0.00310	0.00473	U
85	28.63	395.3				0.0677	0.201	U
87	28.94	395.3				0.0156	0.0731	U
88	29.08	395.3				0.102	0.658	U
89	29.20	360.9				0.0199	0.0366	U
90	29.39	395.3				0.0679	0.311	U
91	29.64	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.0225	0.0859	U
93	30.37	394.3				0.102	0.585	U
94	30.64	394.3				0.0936	0.311	U
95	30.94	382.2				0.0871	0.144	U
96	31.20	429.8				0.00942	0.0121	U
98	31.38	395.3				0.0133	0.0139	U
99	31.75	429.8				0.0863	0.0863	U
100	32.00	395.3				0.127	0.127	U
101	32.29	429.8				0.217	0.217	U
102	32.48	395.3				0.150	1.11	U
103	32.72	395.3				0.0640	0.0768	U
104	33.03	395.3				0.0374	0.0438	U
105	33.38	429.8				0.0460	0.0786	U
106	34.53	395.3				0.0538	0.234	U
107	34.81	395.3				0.0213	0.0768	U
108	35.68	429.8				0.0324	0.0438	U
109	35.92	429.8				0.116	0.768	U
110	36.46	429.8				0.184	0.786	U
111	37.64	395.3				0.0231	0.0231	U
112	39.18	429.8				0.0368	0.101	U
113	39.72	464.2				0.0438	0.0903	U
114	40.65	464.2				0.0154	0.0340	U
115	42.06	429.8				0.0969	0.329	U
116	42.97	429.8				0.0838	0.0838	U
117	48.12	464.2				0.0384	0.124	U
118	54.13	498.6				0.0126	0.0126	U

Total Concentration = <9.10 ng/L 9.10 32.2 U

Total Nanomoles = 0.008

Average Molecular Weight = 275.4

Number of Calibrated Peaks Found = 32

Internal Standard Retention Time = 46.52 minutes

Internal Standard Peak Area = 137120.9

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/27/2009 14:19:36  
 Lab Sample ID: AM11284B  
 LRF ID: CEBLK-99  
 Lab File ID: GC25-128-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.75	1:1	001		2	-	-
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.51	2:2	004 010	0.2904	2-2; 26	12.142	14.986
6	14.35	2:1	007 009		24; 25	-	-
7	14.66	2:1	006		2-3	-	-
8	14.87	2:1	005 008		23; 2-4	-	-
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019		26-2	-	-
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.23	2:0	012 013		34; 3-4	-	-
14	16.35	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.45	3:2	017	0.3536	24-2	7.068	7.558
16	16.74	3:2	024 027		236; 26-3	-	-
17	17.02	3:2	016 032		23-2; 26-4	-	-
19	17.46	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.63	3:1	029		245	-	-
21	17.76	3:1	026	0.3818	25-3	17.553	18.771
22	17.84	3:1	025	0.3835	24-3	8.763	9.371
23	18.05	3:1	031		25-4	-	-
24	18.10	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.45	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.67	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.91	4:3	045	0.4065	236-2	19.363	18.259
28	19.04	3:0	036		35-3	-	-
29	19.19	4:3	046		23-26	-	-
30	19.31	3:0	039		35-4	-	-
31	19.47	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.61	4:2	043 049	0.4215	235-2; 24-25	5.355	5.050
33	19.77	4:2	038 047	0.4250	345; 24-24	9.448	8.910
34	19.80	4:2	048 075	0.4256	245-2; 246-4	3.600	3.395
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.20	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.35	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
39	20.69	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-
41	20.86	5:4	068 096		24-35; 236-26	-	-
42	20.96	4:2	040		23-23	-	-
43	21.21	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.38	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.53	4:1	063		235-4	-	-
46	21.70	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.84	4:1	070		25-34	-	-
48	21.95	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.26	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.55	4:1	056 060		23-34; 234-4	-	-
51	22.80	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.91	5:3	089	0.4925	234-26	2.428	2.048
53	23.06	5:2	090 101		235-24; 245-25	-	-
54	23.26	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.53	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.63	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.84	5:2 6:4	097 152 086	0.5125	245-23; 2356-26; 2345-2	9.085	7.664
58	24.01	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.17	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.29	6:4	120 136		245-35; 236-236	-	-
61	24.43	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.69	6:3	154		245-246	-	-
63	24.79	5:2	082		234-23	-	-
64	25.08	6:3	151		2356-25	-	-
65	25.23	5:1 6:3	124 135	0.5423	345-25; 235-236	1.052	0.827
66	25.26	6:3	144	0.5430	2346-25	4.143	3.161
67	25.37	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.40	5:1	123		345-24	-	-
69	25.52	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.64	6:3	140		234-246	-	-
71	25.93	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.58	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.70	6:2	153		245-245	-	-
76	26.81	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	141		2345-25	-	-
78	27.31	7:4	179		2356-236	-	-
79	27.51	6:2	137		2345-24	-	-
80	27.68	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.90	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.08	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	126 129		345-34; 2345-23	-	-
85	28.63	7:3	166 178		23456-4; 2356-235	-	-
87	28.94	7:3	175 159		2346-235; 2345-35	-	-
88	29.08	7:3	182 187		2345-246; 2356-245	-	-
89	29.20	6:2	128 162		234-234; 235-345	-	-
90	29.39	7:3	183		2346-245	-	-
91	29.64	6:1	167		245-345	-	-
92	29.99	7:3	185		23456-25	-	-
93	30.37	7:3	174 181		2345-236; 23456-24	-	-
94	30.64	7:3	177		2356-234	-	-
95	30.94	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.20	8:4	157 202		234-345; 2356-2356	-	-
98	31.38	7:3	173		23456-23	-	-
99	31.75	8:4	201		2346-2356	-	-
100	32.00	7:2	172 204		2345-235; 23456-246	-	-
101	32.29	8:4	192 197		23456-35; 2346-2346	-	-
102	32.48	7:2	180		2345-245	-	-
103	32.72	7:2	193		2356-345	-	-
104	33.03	7:2	191		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196</b> <b>203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = <9.10 ng/L

Total Nanomoles = 0.008

Average Molecular Weight = 275.4

Number of Calibrated Peaks Found = 32

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: ORGANIC FREE WATER  
Sample Wt(Dry)/Vol: 1000 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03.DOC  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

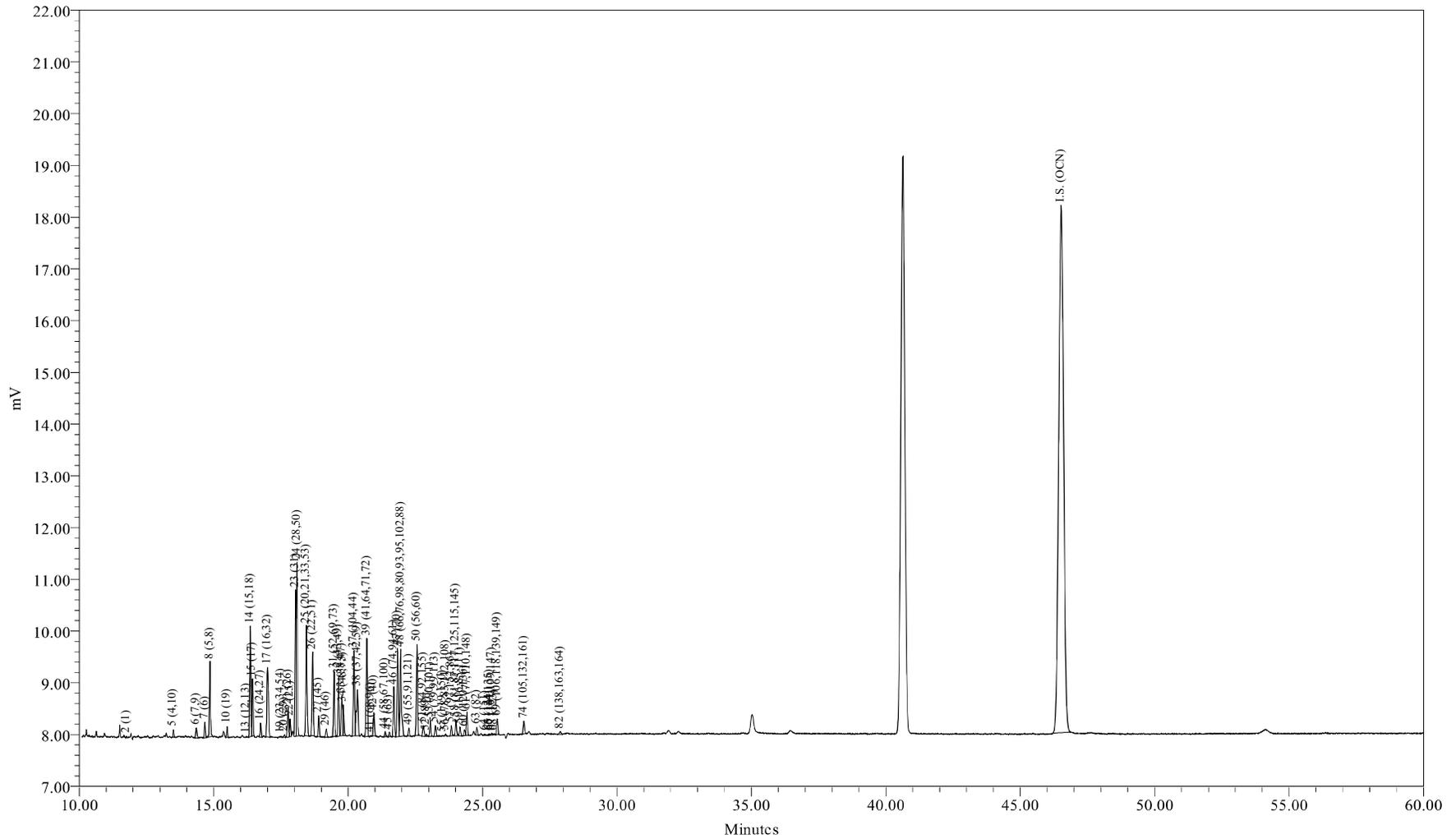
SDG No: 09070314  
LRF ID: LCS-99  
Client ID: LCS-99(LAB CONTROL SPIKE)  
Lab Sample ID: AM11284L  
Lab File ID: GC25-128-5  
Date Received: \_\_\_\_\_  
Date Extracted: 07/27/2009  
Date/Time Analyzed: 07/27/2009 15:25  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 128568

Percent Recovery (50 - 150 %): 79.3

SAMPLE TOTAL PCB CONCENTRATION: 191 ng/L

Visual Aroclor ID: PCB Added to Sample



Sample Name: AM11284L  
Sample ID: LAB CONTROL SPIKE  
Date Acquired: 07/27/2009 15:25:18 EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-T28-5

Sample Name: AM11284L

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/27/2009 15:25:18  
 Lab Sample ID: AM11284L  
 LRF ID: LCS-99  
 Lab File ID: GC25-128-5

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 191 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.39	0.54
Di	18.17	21.18
Tri	46.00	46.84
Tetra	29.88	26.98
Penta	4.96	4.00
Hexa	0.60	0.45
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	0.7411	2.92	3.00
A1242	23+24/31+28	23.1381	91.3	93.7
A1254SED	61/100	1.4648	5.78	
A1254BIO	69+75+82/149+153+138	0.8152		3.30
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.45

Meta + Para Cl / biphenyl Residue = 1.69

Total Cl / biphenyl Residue = 3.14

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/27/2009 15:25:18  
 Lab Sample ID: AM11284L  
 LRF ID: LCS-99  
 Lab File ID: GC25-128-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.75	188.7	36	0.741	3.93	0.529	2.19	J
3	12.78	188.7				6.63	1000	U
4	12.89	188.7				0.355	1.28	U
5	13.50	223.1	332	4.31	19.3	0.134	0.621	B
6	14.36	223.1	561	0.920	4.13	0.0721	0.219	
7	14.67	223.1	723	2.51	11.2	0.158	0.347	
8	14.86	223.1	3823	24.0	108	0.542	2.56	
9	15.42	223.1				0.294	25.0	U
10	15.50	257.5	547	1.24	4.81	0.0604	0.102	
11	15.97	257.5				0.198	25.0	U
12	16.03	223.1				0.306	25.0	U
13	16.21	223.1	19			0.0559	0.0975	U
14	16.36	249.0	5728	11.5	46.2	0.128	0.676	
15	16.45	257.5	2882	12.4	48.3	0.143	0.676	B
16	16.75	257.5	743	1.03	4.01	0.0374	0.0475	
17	17.00	257.5	5622	13.4	52.1	0.166	0.713	
19	17.51	267.9	93	0.175	0.651	0.128	25.0	J
20	17.64	257.5	180	0.220	0.852	0.0108	0.0194	
21	17.76	257.5	1666	3.00	11.6	0.0606	0.132	B
22	17.85	257.5	994	1.32	5.13	0.0426	0.0585	B
23	18.04	257.5	7059	10.1	39.2	0.487	0.753	
24	18.09	257.5	9938	13.0	50.7	0.211	0.964	
25	18.45	259.5	7075	12.0	46.1	0.105	0.726	
26	18.68	258.7	4647	8.23	31.8	0.120	0.530	
27	18.91	292.0	1128	1.85	6.33	0.0367	0.163	B
28	19.04	257.5				0.375	25.0	U
29	19.18	292.0	502	0.938	3.21	0.127	0.127	
30	19.31	257.5				0.120	25.0	U
31	19.48	292.0	3563	7.61	26.1	0.204	0.872	
32	19.65	292.0	3431	3.66	12.5	0.0978	0.420	B
33	19.76	292.0	2462	1.85	6.34	0.0656	0.183	B
34	19.82	292.0	1785	1.94	6.65	0.0579	0.183	B
35	19.96	292.0				0.205	25.0	U
36	20.04	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.22	292.0	4943	6.89	23.6	0.160	0.786	
38	20.35	272.4	3997	6.68	24.5	0.115	0.475	
39	20.69	292.0	5936	6.27	21.5	0.121	0.749	
41	20.85	326.4	65	0.116	0.355	0.115	25.0	J
42	20.96	292.0	1314	1.76	6.03	0.0968	0.172	
43	21.21	298.9				0.152	25.0	U
44	21.38	298.9	284	0.264	0.882	0.0225	0.0402	
45	21.53	292.0	265	0.251	0.861	0.0299	0.0384	
46	21.70	292.0	2967	2.11	7.24	0.0821	0.347	
47	21.84	292.0	5321	4.77	16.3	0.164	0.621	
48	21.95	293.5	6302	8.47	28.9	0.243	1.32	
49	22.26	324.7	491	0.610	1.88	0.0376	0.0932	
50	22.56	292.0	5451	4.82	16.5	0.359	0.640	
51	22.80	326.4	707	1.74	5.33	0.0888	0.329	
52	22.91	326.4	168	0.211	0.646	0.0384	0.0384	B
53	23.06	326.4	930	1.01	3.09	0.0691	0.329	
54	23.25	326.4	678	0.494	1.51	0.101	0.135	
55	23.52	326.4	46	0.0213	0.0653	0.00644	0.0102	
56	23.63	326.4	111	0.142	0.436	0.0647	0.0647	
57	23.84	326.4	663	0.554	1.70	0.0435	0.102	B
58	24.01	326.4	1078	1.01	3.11	0.0841	0.212	
59	24.16	326.4	589	0.460	1.41	0.0484	0.128	
60	24.33	360.9	389	0.357	0.989	0.0772	0.137	
61	24.42	326.4	1391	1.46	4.49	0.0668	0.389	
62	24.69	360.9				0.113	25.0	U
63	24.79	326.4	450	0.394	1.21	0.0201	0.0804	
64	25.08	360.9	121	0.0560	0.155	0.0518	0.311	J
65	25.25	350.5	76	0.0458	0.131	0.0149	0.0530	JB
66	25.26	360.9	48	0.0806	0.223	0.0541	0.110	JB
67	25.34	336.8	104	0.102	0.303	0.0348	0.0475	
68	25.43	326.4	66			0.125	25.0	U
69	25.55	337.5	1011	0.766	2.27	0.0938	0.731	
70	25.64	360.9				0.0829	25.0	U
71	25.93	347.8				0.0348	0.0369	U
72	26.14	336.8				0.00638	0.0106	U
73	26.42	360.9				0.0320	0.0713	U
74	26.54	347.8	851	0.564	1.62	0.0721	0.248	
75	26.70	360.9				0.109	0.538	U
76	26.81	360.9				0.107	25.0	U
77	27.24	360.9				0.0637	0.311	U
78	27.31	395.3				0.0470	0.267	U
79	27.51	360.9				0.0501	0.0501	U
80	27.68	360.9				0.0151	0.0475	U
82	27.89	360.9	213			0.108	0.493	U
83	28.08	360.9				0.0450	0.0457	U
84	28.29	360.9				0.00310	0.00473	U
85	28.63	395.3				0.0677	0.201	U
87	28.94	395.3				0.0156	0.0731	U
88	29.08	395.3				0.102	0.658	U
89	29.20	360.9				0.0199	0.0366	U
90	29.39	395.3				0.0679	0.311	U
91	29.64	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.99	394.3				0.0225	0.0859	U
93	30.37	394.3				0.102	0.585	U
94	30.64	394.3				0.0936	0.311	U
95	30.94	382.2				0.0871	0.144	U
96	31.20	429.8				0.00942	0.0121	U
98	31.38	395.3				0.0133	0.0139	U
99	31.75	429.8				0.0863	0.0863	U
100	32.00	395.3				0.127	0.127	U
101	32.29	429.8				0.217	0.217	U
102	32.48	395.3				0.150	1.11	U
103	32.72	395.3				0.0640	0.0768	U
104	33.03	395.3				0.0374	0.0438	U
105	33.38	429.8				0.0460	0.0786	U
106	34.53	395.3				0.0538	0.234	U
107	34.81	395.3				0.0213	0.0768	U
108	35.68	429.8				0.0324	0.0438	U
109	35.92	429.8				0.116	0.768	U
110	36.46	429.8				0.184	0.786	U
111	37.64	395.3				0.0231	0.0231	U
112	39.18	429.8				0.0368	0.101	U
113	39.72	464.2				0.0438	0.0903	U
114	40.65	464.2				0.0154	0.0340	U
115	42.06	429.8				0.0969	0.329	U
116	42.97	429.8				0.0838	0.0838	U
117	48.12	464.2				0.0384	0.124	U
118	54.13	498.6				0.0126	0.0126	U

Total Concentration = 191 ng/L

9.10

32.2

Total Nanomoles = 0.726

Average Molecular Weight = 262.4

Number of Calibrated Peaks Found = 57

Internal Standard Retention Time = 46.52 minutes

Internal Standard Peak Area = 128568.1

Northeast Analytical, Inc.  
2190 Technology Drive  
Schenectady, NY 12308  
(518) 346-4592 Fax (518) 381-6055

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090727-BNEA-01  
 Date Acquired: 07/27/2009 15:25:18  
 Lab Sample ID: AM11284L  
 LRF ID: LCS-99  
 Lab File ID: GC25-128-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.75	1:1	001	0.2526	2	0.389	0.541
3	12.78	1:0	002		3	-	-
4	12.89	1:0	003		4	-	-
5	13.50	2:2	004 010	0.2902	2-2; 26	2.262	2.660
6	14.36	2:1	007 009	0.3087	24; 25	0.483	0.568
7	14.67	2:1	006	0.3153	2-3	1.317	1.549
8	14.86	2:1	005 008	0.3194	23; 2-4	12.606	14.825
9	15.42	2:0	014		35	-	-
10	15.50	3:3	019	0.3332	26-2	0.650	0.662
11	15.97	3:2	030		246	-	-
12	16.03	2:0	011		3-3	-	-
13	16.21	2:0	012 013		34; 3-4	-	-
14	16.36	2:0 3:2	015 018	0.3517	4-4; 25-2	6.044	6.369
15	16.45	3:2	017	0.3536	24-2	6.532	6.656
16	16.75	3:2	024 027	0.3601	236; 26-3	0.542	0.553
17	17.00	3:2	016 032	0.3654	23-2; 26-4	7.043	7.176
19	17.51	3:1 4:4	023 034 054	0.3764	235; 35-2; 26-26	0.092	0.090
20	17.64	3:1	029	0.3792	245	0.115	0.117
21	17.76	3:1	026	0.3818	25-3	1.574	1.604
22	17.85	3:1	025	0.3837	24-3	0.694	0.707
23	18.04	3:1	031	0.3878	25-4	5.298	5.398
24	18.09	3:1 4:3	028 050	0.3889	24-4; 246-2	6.846	6.976
25	18.45	3:1 4:3	020 021 033 053	0.3966	23-3; 234; 34-2; 25-26	6.274	6.343
26	18.68	3:1 4:3	022 051	0.4015	23-4; 24-26	4.320	4.381
27	18.91	4:3	045	0.4065	236-2	0.971	0.872
28	19.04	3:0	036		35-3	-	-
29	19.18	4:3	046	0.4123	23-26	0.493	0.443
30	19.31	3:0	039		35-4	-	-
31	19.48	4:2	052 069 073	0.4187	25-25; 246-3; 26-35	3.992	3.587
32	19.65	4:2	043 049	0.4224	235-2; 24-25	1.921	1.727
33	19.76	4:2	038 047	0.4248	345; 24-24	0.972	0.874
34	19.82	4:2	048 075	0.4261	245-2; 246-4	1.020	0.916
35	19.96	4:2	062 065		2346; 2356	-	-
36	20.04	3:0	035		34-3	-	-
37	20.22	5:4 4:2	104 044	0.4347	246-26; 23-25	3.616	3.249
38	20.35	3:0 4:2	037 042 059	0.4374	34-4; 23-24; 236-3	3.505	3.376

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.69	4:2	<b>041 064 071 072</b>	0.4448	234-2; 236-4; 26-34; 25-35	3.293	2.959
41	20.85	5:4	<b>068 096</b>	0.4482	24-35; 236-26	0.061	0.049
42	20.96	4:2	<b>040</b>	0.4506	23-23	0.924	0.830
43	21.21	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.38	4:1 5:3	<b>058 067 100</b>	0.4596	23-35; 245-3; 246-24	0.138	0.121
45	21.53	4:1	<b>063</b>	0.4628	235-4	0.132	0.119
46	21.70	4:1 5:3	<b>074 094 061</b>	0.4665	245-4; 235-26; 2345	1.110	0.997
47	21.84	4:1	<b>070</b>	0.4695	25-34	2.505	2.251
48	21.95	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4718	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.446	3.975
49	22.26	4:1 5:3	<b>055 091 121</b>	0.4785	234-3; 236-24; 246-35	0.320	0.259
50	22.56	4:1	<b>056 060</b>	0.4850	23-34; 234-4	2.528	2.272
51	22.80	5:3 6:4	<b>084 092 155</b>	0.4901	236-23; 235-25; 246-246	0.913	0.734
52	22.91	5:3	<b>089</b>	0.4925	234-26	0.111	0.089
53	23.06	5:2	<b>090 101</b>	0.4957	235-24; 245-25	0.530	0.426
54	23.25	5:2	<b>079 099 113</b>	0.4998	34-35; 245-24; 236-35	0.259	0.208
55	23.52	5:2 6:4	<b>119 150</b>	0.5056	246-34; 236-246	0.011	0.009
56	23.63	5:2	<b>078 083 112 108</b>	0.5080	345-3; 235-23; 2356-3; 2346-3	0.075	0.060
57	23.84	5:2 6:4	<b>097 152 086</b>	0.5125	245-23; 2356-26; 2345-2	0.291	0.234
58	24.01	5:2	<b>081 087 117 125 115 145</b>	0.5161	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.532	0.428
59	24.16	5:2	<b>116 085 111</b>	0.5193	23456; 234-24; 235-35	0.241	0.194
60	24.33	6:4	<b>120 136</b>	0.5230	245-35; 236-236	0.187	0.136
61	24.42	5:2	<b>077 110 148</b>	0.5249	34-34; 236-34; 235-246	0.769	0.618
62	24.69	6:3	<b>154</b>		245-246	-	-
63	24.79	5:2	<b>082</b>	0.5329	234-23	0.207	0.166
64	25.08	6:3	<b>151</b>	0.5391	2356-25	0.029	0.021
65	25.25	5:1 6:3	<b>124 135</b>	0.5428	345-25; 235-236	0.024	0.018
66	25.26	6:3	<b>144</b>	0.5430	2346-25	0.042	0.031
67	25.34	5:1 6:3	<b>107 109 147</b>	0.5447	234-35; 235-34; 2356-24	0.053	0.042
68	25.43	5:1	<b>123</b>		345-24	-	-
69	25.55	5:1 6:3	<b>106 118 139 149</b>	0.5492	2345-3; 245-34; 2346-24; 236-245	0.402	0.313
70	25.64	6:3	<b>140</b>		234-246	-	-
71	25.93	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.14	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.42	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.54	5:1 6:3	<b>105 132 161</b>	0.5705	234-34; 234-236; 2346-35	0.296	0.223
75	26.70	6:2	<b>153</b>		245-245	-	-
76	26.81	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.24	6:2	<b>141</b>		2345-25	-	-
78	27.31	7:4	<b>179</b>		2356-236	-	-
79	27.51	6:2	<b>137</b>		2345-24	-	-
80	27.68	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.89	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.08	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.29	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.63	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.94	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.08	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.20	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.39	7:3	<b>183</b>		2346-245	-	-
91	29.64	6:1	<b>167</b>		245-345	-	-
92	29.99	7:3	<b>185</b>		23456-25	-	-
93	30.37	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.64	7:3	<b>177</b>		2356-234	-	-
95	30.94	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.20	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.38	7:3	<b>173</b>		23456-23	-	-
99	31.75	8:4	<b>201</b>		2346-2356	-	-
100	32.00	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.29	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.48	7:2	<b>180</b>		2345-245	-	-
103	32.72	7:2	<b>193</b>		2356-345	-	-
104	33.03	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.38	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.53	7:2	<b>170</b>		2345-234	-	-
107	34.81	7:2	<b>190</b>		23456-34	-	-
108	35.68	8:3	<b>198</b>		23456-235	-	-
109	35.92	8:3	<b>199</b>		2345-2356	-	-
110	36.46	8:3	<b>196</b> <b>203</b>		2345-2346; 23456-245	-	-
111	37.64	7:1	<b>189</b>		2345-345	-	-
112	39.18	8:3	<b>195</b>		23456-234	-	-
113	39.72	9:4	<b>208</b>		23456-2356	-	-
114	40.65	9:4	<b>207</b>		23456-2346	-	-
115	42.06	8:2	<b>194</b>		2345-2345	-	-
116	42.97	8:2	<b>205</b>		23456-345	-	-
117	48.12	9:3	<b>206</b>		23456-2345	-	-
118	54.13	10:4	<b>209</b>		23456-23456	-	-

Concentration = 191 ng/L

Total Nanomoles = 0.726

Average Molecular Weight = 262.4

Number of Calibrated Peaks Found = 57

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

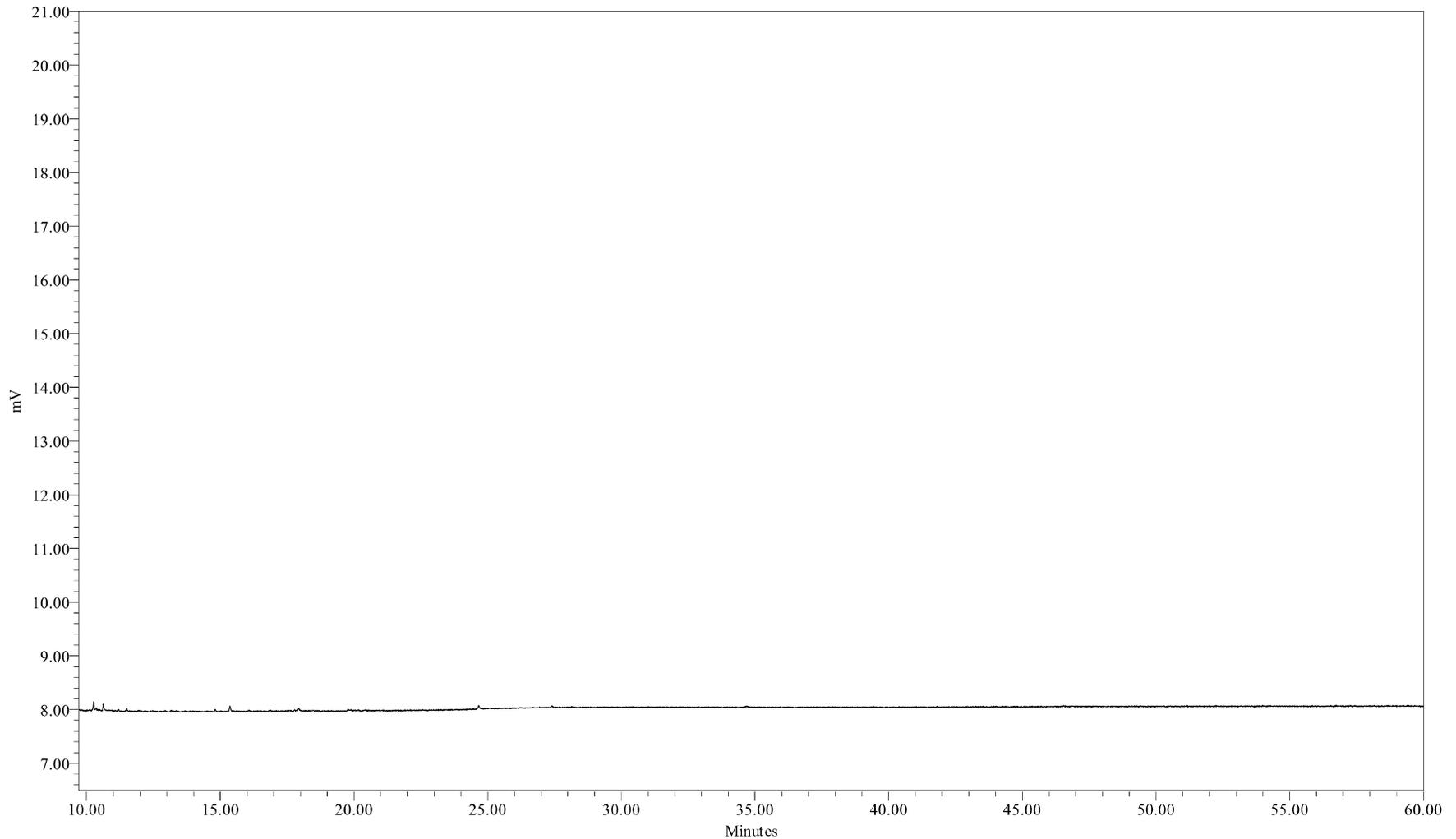
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: 090727B02  
Sample ID: HEXANE BLANK  
Date Acquired: 7/27/2009 12:08:25 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_062409  
LIMS File ID: GC25-128-2

Sample Name: 090727B02

1 of 1

# MDL Studies

## Pooled Modified Green Bay Method MDL 1 Liter

Compiled May 2009

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL	
Water Column	PCBs (1 liter)	Total PCB (sum of congeners)	1336-36-3	Modified Green Bay Mass Balance Method (NEA 207_03)	ng/L	9.10	32.2	
		DB-1 Peak:	02	2051-60-7	NEA 207_03	ng/L	0.529	2.19
			03	2051-61-8	NEA 207_03	ng/L	6.63	1000
			04	2051-62-9	NEA 207_03	ng/L	0.355	1.28
			05	13029-08-8 33146-45-1	NEA 207_03	ng/L	0.134	0.621
			06	33284-50-3 34883-39-1	NEA 207_03	ng/L	0.0721	0.219
			07	25569-80-6	NEA 207_03	ng/L	0.158	0.347
			08	16605-91-7 34883-43-7	NEA 207_03	ng/L	0.542	2.56
			09	34883-41-5	NEA 207_03	ng/L	0.294	25.0
			10	38444-73-4	NEA 207_03	ng/L	0.0604	0.102
			11	35693-92-6	NEA 207_03	ng/L	0.198	25.0
			12	2050-67-1	NEA 207_03	ng/L	0.306	25.0
			13	2974-92-7 2974-90-5	NEA 207_03	ng/L	0.0559	0.0975
			14	2050-68-2 37680-65-2	NEA 207_03	ng/L	0.128	0.676
			15	37680-66-3	NEA 207_03	ng/L	0.143	0.676
			16	55702-45-9 38444-76-7	NEA 207_03	ng/L	0.0374	0.047
			17	38444-78-9 38444-77-8	NEA 207_03	ng/L	0.166	0.713
			19	55720-44-0 37680-68-5 15968-05-5	NEA 207_03	ng/L	0.128	25.0
			20	15862-07-4	NEA 207_03	ng/L	0.0108	0.0194
			21	38444-81-4	NEA 207_03	ng/L	0.0606	0.132
			22	55712-37-3	NEA 207_03	ng/L	0.0426	0.0585
			23	16606-02-3	NEA 207_03	ng/L	0.487	0.753
			24	7012-37-5 62796-65-0	NEA 207_03	ng/L	0.211	0.964
			25	38444-84-7 55702-46-0 38444-86-9 41464-41-9	NEA 207_03	ng/L	0.105	0.726
			26	38444-85-8 68194-04-7	NEA 207_03	ng/L	0.120	0.530
			27	70362-45-7	NEA 207_03	ng/L	0.0367	0.163
			28	38444-87-0	NEA 207_03	ng/L	0.375	25.0
			29	41464-47-5	NEA 207_03	ng/L	0.127	0.127
			30	38444-88-1	NEA 207_03	ng/L	0.120	25.0
			31	35693-99-3 60233-24-1 74338-23-1	NEA 207_03	ng/L	0.204	0.872
			32	70362-46-8 41464-40-8	NEA 207_03	ng/L	0.0978	0.420
			33	53555-66-1 2437-79-8	NEA 207_03	ng/L	0.0656	0.183
			34	70362-47-9 32598-12-2	NEA 207_03	ng/L	0.0579	0.183
			35	54230-22-7 33284-54-7	NEA 207_03	ng/L	0.205	25.0
			36	37680-69-6	NEA 207_03	ng/L	0.144	25.0
			37	56558-16-8 41464-39-5	NEA 207_03	ng/L	0.160	0.786
			38	38444-90-5 36559-22-5 74472-33-6	NEA 207_03	ng/L	0.115	0.475
			39	52663-59-9 52663-58-8 41464-46-4 41464-42-0	NEA 207_03	ng/L	0.121	0.749
			41	73575-52-7 73575-54-9	NEA 207_03	ng/L	0.115	25.0
			42	38444-93-8	NEA 207_03	ng/L	0.0968	0.172
			43	70424-67-8 60145-21-3	NEA 207_03	ng/L	0.152	25.0
			44	41464-49-7 73575-53-8 39485-83-1	NEA 207_03	ng/L	0.0225	0.0402

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		45	74472-34-7	NEA 207_03	ng/L	0.0299	0.0384
		46	32690-93-0 73575-55-0 33284-53-6	NEA 207_03	ng/L	0.0821	0.347
		47	32598-11-1	NEA 207_03	ng/L	0.164	0.621
		48	32598-10-0 70362-48-0 60233-25-2 33284-52-5 73575-56-1 38379-99-6 68194-06-9 55215-17-3	NEA 207_03	ng/L	0.243	1.32
		49	74338-24-2 68194-05-8 56558-18-0	NEA 207_03	ng/L	0.0376	0.093
		50	41464-43-1 33025-41-1	NEA 207_03	ng/L	0.359	0.640
		51	52663-60-2 52663-61-3 33979-03-2	NEA 207_03	ng/L	0.0888	0.329
		52	73575-57-2	NEA 207_03	ng/L	0.0384	0.0384
		53	68194-07-0 37680-73-2	NEA 207_03	ng/L	0.0691	0.329
		54	41464-48-6 38380-01-7 68194-10-5	NEA 207_03	ng/L	0.101	0.135
		55	56558-17-9 68194-08-1	NEA 207_03	ng/L	0.00644	0.0102
		56	70362-49-1 60145-20-2 74472-36-9 70362-41-3	NEA 207_03	ng/L	0.0647	0.0647
		57	41464-51-1 68194-09-2 55312-69-1	NEA 207_03	ng/L	0.0435	0.102
		58	70362-50-4 38380-02-8 68194-11-06 74472-39-2 39635-32-0 74472-38-1 74472-40-5	NEA 207_03	ng/L	0.0841	0.212
		59	18259-05-7 65510-45-4	NEA 207_03	ng/L	0.0484	0.128
		60	68194-12-7 38411-22-2	NEA 207_03	ng/L	0.0772	0.137
		61	32598-13-3 38380-03-9 74472-41-6	NEA 207_03	ng/L	0.0668	0.389
		62	60145-22-4	NEA 207_03	ng/L	0.113	25.0
		63	52663-62-4	NEA 207_03	ng/L	0.0201	0.0804
		64	52663-63-5	NEA 207_03	ng/L	0.0518	0.311
		65	70424-70-3 52744-13-5	NEA 207_03	ng/L	0.0149	0.0530
		66	68194-14-9	NEA 207_03	ng/L	0.0541	0.110
		67	70424-68-9 74472-35-8 68194-13-8	NEA 207_03	ng/L	0.0348	0.0475
		68	65510-44-3	NEA 207_03	ng/L	0.125	25.0
		69	70424-69-0 31508-00-6 56030-56-9 38380-04-0	NEA 207_03	ng/L	0.0938	0.731
		70	59291-64-4	NEA 207_03	ng/L	0.0829	25.0
		71	74472-37-0 52704-70-8 68194-15-0	NEA 207_03	ng/L	0.0348	0.0369
		72	76842-07-4 61798-70-7 35694-04-3 41411-61-4	NEA 207_03	ng/L	0.00638	0.0106
		73	51908-16-8 74472-46-1 74487-85-7	NEA 207_03	ng/L	0.0320	0.0713
		74	32598-14-4 38380-05-1 74472-43-8	NEA 207_03	ng/L	0.0721	0.248

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		75	35065-27-1	NEA 207_03	ng/L	0.109	0.538
		76	39635-33-1 59291-65-5 74472-48-3	NEA 207_03	ng/L	0.107	25.0
		77	52712-04-6	NEA 207_03	ng/L	0.064	0.311
		78	52663-64-6	NEA 207_03	ng/L	0.0470	0.267
		79	35694-06-5	NEA 207_03	ng/L	0.0501	0.0501
		80	52663-66-8 52663-65-7	NEA 207_03	ng/L	0.0151	0.0475
		82	35065-28-2 74472-44-9 74472-45-0	NEA 207_03	ng/L	0.108	0.493
		83	74472-42-7 41411-62-5 74472-49-4	NEA 207_03	ng/L	0.0450	0.0457
		84	57465-28-8 55215-18-4	NEA 207_03	ng/L	0.00310	0.00473
		85	41411-63-6 52663-67-9	NEA 207_03	ng/L	0.0677	0.201
		87	40186-70-7 39635-35-3	NEA 207_03	ng/L	0.0156	0.0731
		88	60145-23-5 52663-68-0	NEA 207_03	ng/L	0.102	0.658
		89	38380-07-3 39635-34-2	NEA 207_03	ng/L	0.0199	0.0366
		90	52663-69-1	NEA 207_03	ng/L	0.0679	0.311
		91	52663-72-6	NEA 207_03	ng/L	0.0348	0.0348
		92	52712-05-7	NEA 207_03	ng/L	0.0225	0.0859
		93	38411-25-5 74472-47-2	NEA 207_03	ng/L	0.102	0.585
		94	52663-70-4	NEA 207_03	ng/L	0.0936	0.311
		95	38380-08-4 52663-71-5	NEA 207_03	ng/L	0.0871	0.144
		96	69782-90-7 2136-99-4	NEA 207_03	ng/L	0.00942	0.0121
		98	68194-16-1	NEA 207_03	ng/L	0.0133	0.0139
		99	40186-71-8	NEA 207_03	ng/L	0.0863	0.0863
		100	52663-74-8 74472-52-9	NEA 207_03	ng/L	0.127	0.127
		101	74472-51-8 33091-17-7	NEA 207_03	ng/L	0.217	0.217
		102	35065-29-3	NEA 207_03	ng/L	0.150	1.11
		103	69782-91-8	NEA 207_03	ng/L	0.0640	0.0768
		104	74472-50-7	NEA 207_03	ng/L	0.0374	0.0438
		105	52663-73-7 32774-16-6	NEA 207_03	ng/L	0.0460	0.0786
		106	35065-30-6	NEA 207_03	ng/L	0.0538	0.234
		107	41411-64-7	NEA 207_03	ng/L	0.0213	0.0768
		108	68194-17-2	NEA 207_03	ng/L	0.0324	0.0438
		109	52663-75-9	NEA 207_03	ng/L	0.116	0.768
		110	42740-50-1 52663-76-0	NEA 207_03	ng/L	0.184	0.786
		111	39635-31-9	NEA 207_03	ng/L	0.0231	0.0231
		112	52663-78-2	NEA 207_03	ng/L	0.0368	0.101
		113	52663-77-1	NEA 207_03	ng/L	0.0438	0.0902
		114 (surrogate)	52663-79-3	NEA 207_03	ng/L	0.0154	0.0340
		115	35694-08-7	NEA 207_03	ng/L	0.0969	0.329
		116	74472-53-0	NEA 207_03	ng/L	0.0838	0.084
		117	40186-72-9	NEA 207_03	ng/L	0.0384	0.124
		118	2051-24-3	NEA 207_03	ng/L	0.0126	0.0126

Note:

\*\* - Peak 114 corresponds to IUPAC 207, which is the surrogate.

PCB SAMPLE DATA SUMMARY PACKAGE FOR:

ANCHOR QUANTITATIVE ENVIRONMENTAL ANALYSIS, LLC  
305 WEST GRAND AVENUE  
MONTVALE, NEW JERSEY 07645

TOTAL PCB: GREEN BAY METHOD (NE207\_03.DOC)  
PARTICULATE ORGANIC CARBON (NE128\_06)  
DISSOLVED TOTAL ORGANIC CARBON (NE128\_06)

DATE: August 25, 2009-C

LRF: 09080314

PROVIDED BY : NORTHEAST ANALYTICAL, INC.  
2190 TECHNOLOGY DRIVE  
SCHENECTADY, NEW YORK 12308  
518-346-4592



TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
CASE NARRATIVE .....	4
SAMPLE CHAIN OF CUSTODY .....	6
INTERNAL SAMPLE TRACKING RECORD .....	8
SURROGATE RECOVERY SUMMARY .....	11
LABORATORY CONTROL SPIKE SUMMARY .....	26
METHOD BLANK SUMMARY .....	28
SAMPLE ANALYSIS DATA .....	30
SAMPLE GC INJECTION LOG.....	125
STANDARDS SUMMARY TABLES .....	135
CALIBRATION COMPONENT SUMMARY TABLES .....	190
STANDARDS RAW DATA .....	194
QC SAMPLE RAW DATA .....	250
MDL STUDIES .....	270

# Case Narrative

September 11, 2009

CASE NARRATIVE

This data package (NEA SDG ID: 09080314) consists of 6 water samples received on 08/24/2009. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AM14595	WFF-LOC5-090824-CT001	08/24/2009 11:38
AM14596	WFF-SCHU-090824-CT001	08/24/2009 11:00
AM14597	WFF-THIS-090824-CT001	08/24/2009 10:15
AM14598	WFF-TIDA-090824-CT001	08/24/2009 10:28
AM14599	WFF-WAFA-090824-CT001	08/24/2009 14:02
AM14600	WFF-WAFO-090824-CT001	08/24/2009 13:45

Sample Delivery and Receipt Conditions

- (1.) Northeast Analytical provided sample pickup service on 08/24/2009.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 4.1, 9.1 degrees Celsius; which exceeds the six degree temperature limit (samples were collected and received at the laboratory on the same day and ice was present in the cooler). Please see Chain of Custody for details.

Total PCBs by Green Bay Method (1L)

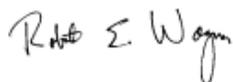
Analysis for Total PCBs was performed by NEA SOP NE207\_03. Samples were extracted by USEPA SW-846 Method 3535 Solid Phase Extraction. One-liter water samples were extracted by NEA SOP NE178\_03. The following technical and administrative items were noted for the analysis:

- (1.) Note: Hudson River Bias Correction applied (v09/23/2004) to GC Column peaks 5, 8, and 14 (which are comprised of congeners IUPAC 4 and 10; IUPAC 5 and 8; and IUPAC 15 and 18, respectively). Please see SOP NE207\_03 for details.
- (2.) Peak 27 and Peak 33 were observed in the Method Blank sample. All associated positive sample concentration results have been flagged (B) to denote the observed contamination.
- (3.) Sample (NEA ID: AM14595, AM14596, AM14597, AM14598, and AM14600) required additional analysis at a dilution for Peak 5 and Peak 10 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a NEA ID suffix of DL1. The concentration for Peak 5 and Peak 10 are included in the original analysis to provide the correct PCB total concentration.

Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the PQL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



Robert E. Wagner  
Laboratory Director & Founder

# Sample Chain Of Custody



305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9990

Client: General Electric Company

### ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC090824-CNEA-01

Sample Custodian: DF

Lab: NEA

COC Sample Number	Field Sample ID	QA/QC	MS	MSD	LD	Matrix	Date Collected	Time Collected	Media	# Containers	4degC									
											CS PCBs	NE207_08								
001	WFF-LOC5-090824-CT001	ENV	N	N	N	W	08/24/2009	11:38	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM14595							
002	WFF-SCHU-090824-CT001	ENV	N	N	N	W	08/24/2009	11:00	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM14596							
004	WFF-THIS-090824-CT001	ENV	N	N	N	W	08/24/2009	10:15	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM14597							
005	WFF-TIDA-090824-CT001	ENV	N	N	N	W	08/24/2009	10:28	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM14598							
006	WFF-WAFA-090824-CT001	ENV	N	N	N	W	08/24/2009	14:02	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM14599							
007	WFF-WAFO-090824-CT001	ENV	N	N	N	W	08/24/2009	13:45	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM14600							

Comments: Temp → 4.1 & 9.1 °C ice present

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature: <i>[Signature]</i>					
Print Name: Charles Sealaska	Print Name: M RANUCCO	Print Name: M RANUCCO	Print Name: Amanda Weiros	Print Name:	Print Name:
Company: Anchor QEA	Company: NEA	Company: NEA	Company: NEA	Company:	Company:
Date/Time: 8/24/09 16:00	Date/Time: 8-24-09 16:20	Date/Time: 8-24-09 17:10	Date/Time: 8/24/09 17:10	Date/Time:	Date/Time:

Date Printed: 8/24/2009

\* S= SEDIMENT, W= WATER \*\* T = Total, D = Dissolved, R = Residue  
 \*\*\* Air Tight Container; preserved at lab if not analyzed within 48 hrs.

Page 1 of 1

# Internal Sample Tracking Record

AQUEOUS EXTRACTION LOG



Prep Date: 08/24/2009

Batch ID: 9060

Initial for required Clean Up Steps

	Prep ID	NEA Sample ID	Alt Sample ID	Client	Extraction Type	Matrix	Sample Amount (g or mL)	TS %	Final Ext. Vol (mL)	Date Ext (MM/DD)	Extract Time On	Extract Time Off	Date Conc (MM/DD)	Initial for required Clean Up Steps			Cell / Unit #	Job	pH	Comments	
														RJW		RJW					RJW
1	88101	CEBLK-10	AM14526B	GE	SPE-1L	Water	1000	NA	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L3	E CON1L	5	
2	88100	LCS-10	AM14526L	GE	SPE-1L	Water	1000	NA	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L4	E CON1L	5	
7	88204	09080314-01	AM14595	GE	SPE-1L	Water	1060	NA	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L3	E CON1L	5	
8	88205	09080314-02	AM14596	GE	SPE-1L	Water	1020	NA	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L4	E CON1L	5	
9	88206	09080314-04	AM14597	GE	SPE-1L	Water	1040	NA	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L5	E CON1L	5	
10	88207	09080314-05	AM14598	GE	SPE-1L	Water	1060	NA	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L6	E CON1L	5	
11	88208	09080314-06	AM14599	GE	SPE-1L	Water	1080	NA	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L7	E CON1L	5	
12	88209	09080314-07	AM14600	GE	SPE-1L	Water	1030	NA	5	08/24	NA	NA	08/24	08/24	NA	08/24	08/24	L8	E CON1L	5	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone	041409B27P21C	200	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone	042309B27P38A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (current)	CZ366	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane (current)	CZ377	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane	CZ440	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (CSGB only)current	090618F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol (current)	49107	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk	H25N14	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury(current)	080314	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only)current	090729A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SPIKED BY: Tara Snay

WITNESSED BY: Kyle Wray

SIGNATURE:

SIGNATURE:

# CONGENER AQUEOUS SCREEN SHEET

Batch ID: 9060

Prepared by: Robert Wilson

NEA Sample ID	Alt Sample ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Dilution Sequence	Final Multiplier
CEBLK-10	AM14526B	Water	08/24/09	1000	5	NA	N/A	NA	5X
LCS-10	AM14526L	Water	08/24/09	1000	5	NA	N/A	NA	5X
09080314-01	AM14595	Water	08/24/09	1060	5	NA	N/A	Neat + 1:10	5X, 50X
09080314-02	AM14596	Water	08/24/09	1020	5	NA	N/A	Neat + 1:10	5X, 50X
09080314-04	AM14597	Water	08/24/09	1040	5	NA	N/A	Neat + 1:10	5X, 50X
09080314-05	AM14598	Water	08/24/09	1060	5	NA	N/A	Neat + 1:10	5X, 50X
09080314-06	AM14599	Water	08/24/09	1080	5	NA	N/A	Neat, NA	5X
09080314-07	AM14600	Water	08/24/09	1030	5	NA	N/A	Neat + 1:10	5X, 50X

Solvent, Surrogate, Spike, and Acid Information B=Blank, L=Lab Control Spike, LD=Lab Control Spike Duplicate, S=Sample, D=Duplicate, M=Matrix Spike, K=Matrix Spike Duplicate

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone	041409B27P21C	200	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone	042309B27P38A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (current)	CZ366	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane (current)	CZ377	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane	CZ440	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (CSGB only)current	090618F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol (current)	49107	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk	H25N14	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury(current)	080314	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only)current	090729A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS: \_\_\_\_\_

# Surrogate % Recovery Summary

## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Lab Name: Northeast Analytical, Inc.

SDG No: 09080314

ELAP ID No: 11078

Init. Calib. Date(s): 08/11/2009,08/12/2009

GC Column (1): PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

Instrument ID: GC24

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS:							
IUPAC 207: <u>39.49</u>							
#	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)
01	ICAL 6.25 ng/mL	ICAL0811A	GC24-137-4	08/11/2009 14:49:17			
02	ICAL 12.5 ng/mL	ICAL0811B	GC24-137-5	08/11/2009 15:54:46			
03	ICAL 125 ng/mL	ICAL0811C	GC24-137-6	08/11/2009 17:00:14			
04	ICAL 314 ng/mL	ICAL0811D	GC24-137-7	08/11/2009 18:05:44			
05	ICAL 627 ng/mL	ICAL0811E	GC24-137-8	08/11/2009 19:11:11			
06	SUP CONG STD 200/5 ng/mL	SC0811A	GC24-137-10	08/11/2009 21:22:27			
07	Surr TCMX/DCBP 5/50 ppb	TD0811A	GC24-137-11	08/11/2009 22:27:58			
08	Surr Std (207) 2.0 ng/mL	SS0811A	GC24-137-12	08/11/2009 23:33:27			
09	Surr Std (207) 20.0 ng/mL	SS0811B	GC24-137-13	08/12/2009 00:38:57			
10	HEXANE BLANK	090822B01	GC24-149-1	08/22/2009 07:13:09			
11	CCC Std 122 ng/mL	CCCS0823E	GC24-150-25	08/24/2009 09:40:09			
12	CEBLK-10(METHOD BLANK)	AM14526B	GC24-151-1	08/24/2009 10:45:37	39.47	-0.02	78.6
13	LCS-10(LAB CONTROL SPIKE)	AM14526L	GC24-151-2	08/24/2009 11:51:04	39.47	-0.02	83.0
14	CCC Std 122 ng/mL	CCCS0824A	GC24-151-5	08/24/2009 15:07:26			
15	CCC Std 122 ng/mL	CCCS0826E	GC24-153-26	08/27/2009 15:51:12			
16	WFF-LOC5-090824-CT001	AM14595	GC24-154-1	08/27/2009 20:59:06	39.46	-0.03	80.0
17	WFF-LOC5-090824-CT001	AM14595DL1	GC24-154-2	08/27/2009 22:04:31	39.46	-0.03	92.9
18	WFF-SCHU-090824-CT001	AM14596	GC24-154-3	08/27/2009 23:09:56	39.46	-0.03	82.4
19	WFF-SCHU-090824-CT001	AM14596DL1	GC24-154-4	08/28/2009 00:15:36	39.46	-0.03	94.3
20	WFF-THIS-090824-CT001	AM14597	GC24-154-5	08/28/2009 01:21:00	39.46	-0.03	84.9
21	WFF-THIS-090824-CT001	AM14597DL1	GC24-154-6	08/28/2009 02:26:26	39.47	-0.02	94.5
22	WFF-TIDA-090824-CT001	AM14598	GC24-154-7	08/28/2009 03:31:51	39.46	-0.03	83.4
23	WFF-TIDA-090824-CT001	AM14598DL1	GC24-154-8	08/28/2009 04:37:18	39.46	-0.03	95.0
24	WFF-WAFA-090824-CT001	AM14599	GC24-154-9	08/28/2009 05:42:43	39.46	-0.03	74.3
25	CCC Std 122 ng/mL	CCCS0827A	GC24-154-10	08/28/2009 06:48:08			
26	WFF-WAFO-090824-CT001	AM14600	GC24-154-11	08/28/2009 07:53:30	39.47	-0.02	83.3
27	WFF-WAFO-090824-CT001	AM14600DL1	GC24-154-12	08/28/2009 08:58:55	39.45	-0.04	97.0
28	CCC Std 122 ng/mL	CCCS0827B	GC24-154-13	08/28/2009 10:04:21			



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Sample Name:	AM14526B	Sample Amount:	1.000 L
Sample ID:	METHOD BLANK	Dilution:	5
Date Acquired:	08/24/2009 10:45:37	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	08/24/2009 14:15:19
Sample Set Name:	GC24_082409	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_081109	Current Time:	21:17:52
Run Time:	60 Minutes	Current Date:	9/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-151-1

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.47	164620	15.720	78.6
2	I.S. (OCN)	45.12	220921	3.636	



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Sample Name:	AM14526L	Sample Amount:	1.000 L
Sample ID:	LAB CONTROL SPIKE	Dilution:	5
Date Acquired:	08/24/2009 11:51:04	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	08/24/2009 14:14:51
Sample Set Name:	GC24_082409	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_081109	Current Time:	21:17:52
Run Time:	60 Minutes	Current Date:	9/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-151-2

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.47	174066	16.590	83
2	I.S. (OCN)	45.11	221347	3.636	



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Sample Name:	AM14595	Sample Amount:	1.060 L
Sample ID:	WFF-LOC5-090824-CT001	Dilution:	5
Date Acquired:	08/27/2009 20:59:06	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/01/2009 00:25:06
Sample Set Name:	GC24_082709	User Name:	Brittney Ivey
Processing Method:	CSGB_S_20_081109	Current Time:	21:17:52
Run Time:	60 Minutes	Current Date:	9/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-154-1

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.46	168547	15.999	80
2	I.S. (OCN)	45.10	222256	3.854	



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Sample Name:	AM14595DL1	Sample Amount:	1.060 L
Sample ID:	WFF-LOC5-090824-CT001	Dilution:	25
Date Acquired:	08/27/2009 22:04:31	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/01/2009 00:25:21
Sample Set Name:	GC24_082709	User Name:	Brittney Ivey
Processing Method:	CSGB_S_20_081109	Current Time:	21:17:53
Run Time:	60 Minutes	Current Date:	9/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-154-2

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.46	38721	3.717	92.9
2	I.S. (OCN)	45.12	219790	0.771	



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Sample Name:	AM14596	Sample Amount:	1.020 L
Sample ID:	WFF-SCHU-090824-CT001	Dilution:	5
Date Acquired:	08/27/2009 23:09:56	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/01/2009 00:25:52
Sample Set Name:	GC24_082709	User Name:	Brittney Ivey
Processing Method:	CSGB_S_20_081109	Current Time:	21:17:53
Run Time:	60 Minutes	Current Date:	9/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-154-3

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.46	165178	16.475	82.4
2	I.S. (OCN)	45.10	211517	3.709	



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Sample Name:	AM14596DL1	Sample Amount:	1.020 L
Sample ID:	WFF-SCHU-090824-CT001	Dilution:	25
Date Acquired:	08/28/2009 00:15:36	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/01/2009 00:26:12
Sample Set Name:	GC24_082709	User Name:	Brittney Ivey
Processing Method:	CSGB_S_20_081109	Current Time:	21:17:53
Run Time:	60 Minutes	Current Date:	9/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-154-4

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.46	38985	3.772	94.3
2	I.S. (OCN)	45.11	218054	0.742	



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Sample Name:	AM14597	Sample Amount:	1.040 L
Sample ID:	WFF-THIS-090824-CT001	Dilution:	5
Date Acquired:	08/28/2009 01:21:00	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/01/2009 00:26:25
Sample Set Name:	GC24_082709	User Name:	Brittney Ivey
Processing Method:	CSGB_S_20_081109	Current Time:	21:17:53
Run Time:	60 Minutes	Current Date:	9/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-154-5

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.46	171137	16.988	84.9
2	I.S. (OCN)	45.11	212525	3.781	



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Sample Name:	AM14597DL1	Sample Amount:	1.040 L
Sample ID:	WFF-THIS-090824-CT001	Dilution:	25
Date Acquired:	08/28/2009 02:26:26	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/01/2009 00:26:32
Sample Set Name:	GC24_082709	User Name:	Brittney Ivey
Processing Method:	CSGB_S_20_081109	Current Time:	21:17:53
Run Time:	60 Minutes	Current Date:	9/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-154-6

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.47	39721	3.779	94.5
2	I.S. (OCN)	45.12	221774	0.756	



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Sample Name:	AM14598	Sample Amount:	1.060 L
Sample ID:	WFF-TIDA-090824-CT001	Dilution:	5
Date Acquired:	08/28/2009 03:31:51	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/01/2009 00:26:42
Sample Set Name:	GC24_082709	User Name:	Brittney Ivey
Processing Method:	CSGB_S_20_081109	Current Time:	21:17:54
Run Time:	60 Minutes	Current Date:	9/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-154-7

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.46	166472	16.689	83.4
2	I.S. (OCN)	45.10	210438	3.854	



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Sample Name:	AM14598DL1	Sample Amount:	1.060 L
Sample ID:	WFF-TIDA-090824-CT001	Dilution:	25
Date Acquired:	08/28/2009 04:37:18	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/01/2009 21:08:37
Sample Set Name:	GC24_082709	User Name:	Brittney Ivey
Processing Method:	CSGB_S_20_081109	Current Time:	21:17:54
Run Time:	60 Minutes	Current Date:	9/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-154-8

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.46	37843	3.801	95
2	I.S. (OCN)	45.11	210032	0.771	



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Sample Name:	AM14599	Sample Amount:	1.080 L
Sample ID:	WFF-WAFA-090824-CT001	Dilution:	5
Date Acquired:	08/28/2009 05:42:43	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/01/2009 00:27:01
Sample Set Name:	GC24_082709	User Name:	Brittney Ivey
Processing Method:	CSGB_S_20_081109	Current Time:	21:17:54
Run Time:	60 Minutes	Current Date:	9/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-154-9

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.46	153273	14.863	74.3
2	I.S. (OCN)	45.11	217561	3.927	



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Sample Name:	AM14600	Sample Amount:	1.030 L
Sample ID:	WFF-WAFO-090824-CT001	Dilution:	5
Date Acquired:	08/28/2009 07:53:30	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/01/2009 00:27:13
Sample Set Name:	GC24_082709	User Name:	Brittney Ivey
Processing Method:	CSGB_S_20_081109	Current Time:	21:17:54
Run Time:	60 Minutes	Current Date:	9/1/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-154-11

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.47	166590	16.659	83.3
2	I.S. (OCN)	45.11	210975	3.745	



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Sample Name: AM14600DL1 Sample Amount: 1.030 L  
Sample ID: WFF-WAFO-090824-CT001 Dilution: 25  
Date Acquired: 08/28/2009 08:58:55 Extract Volume: 5 mL  
Project Name: GC24\_Mar\_2009 Date Processed: 09/01/2009 00:27:22  
Sample Set Name: GC24\_082709 User Name: Brittney Ivey  
Processing Method: CSGB\_S\_20\_081109 Current Time: 21:17:54  
Run Time: 60 Minutes Current Date: 9/1/2009  
Report Name: CSGB\_Surrogate(NeaLims) LIMS File ID: GC24-154-12

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.45	40179	3.882	97
2	I.S. (OCN)	45.11	218356	0.749	

# Laboratory Control Spike Summary

## PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Northeast Analytical, Inc.

ELAP ID No: 11078

SDG No: 09080314

LCS ID: LCS-10

Blank Sample ID: CEBLK-10

LCS File ID: GC24-151-2

Method Blank File ID: GC24-151-1

LCS Inj Date: 08/24/2009 11:51:04

Method Blank Inj Date: 08/24/2009 10:45:37

LCS NEA ID No: AM14526L

Method Blank NEA ID No: AM14526B

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS PERCENT RECOVERY #	QC LIMITS PERCENT RECOVERY
Total PCBs	200	185	92.5	60.0-140

# Column to be used to flag recovery values.

\* Value outside of QC limits.

Comments: \_\_\_\_\_  
 \_\_\_\_\_

# Method Blank Summary

**PCB METHOD BLANK SUMMARY**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09080314</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>CEBLK-10</u>
Matrix:	<u>ORGANIC FREE WATER</u>	Client ID:	<u>CEBLK-10(METHOD BLANK)</u>
Sample Wt(Dry)/Vol:	<u>1000 mL</u>	Lab Sample ID:	<u>AM14526B</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-151-1</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>08/24/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>08/24/2009 10:45</u>
Analytical SOP Reference:	<u>SOP NE207_03.DOC</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm</u>		

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

# Sample Analysis Data

PCB SAMPLE ANALYSIS DATA SHEET

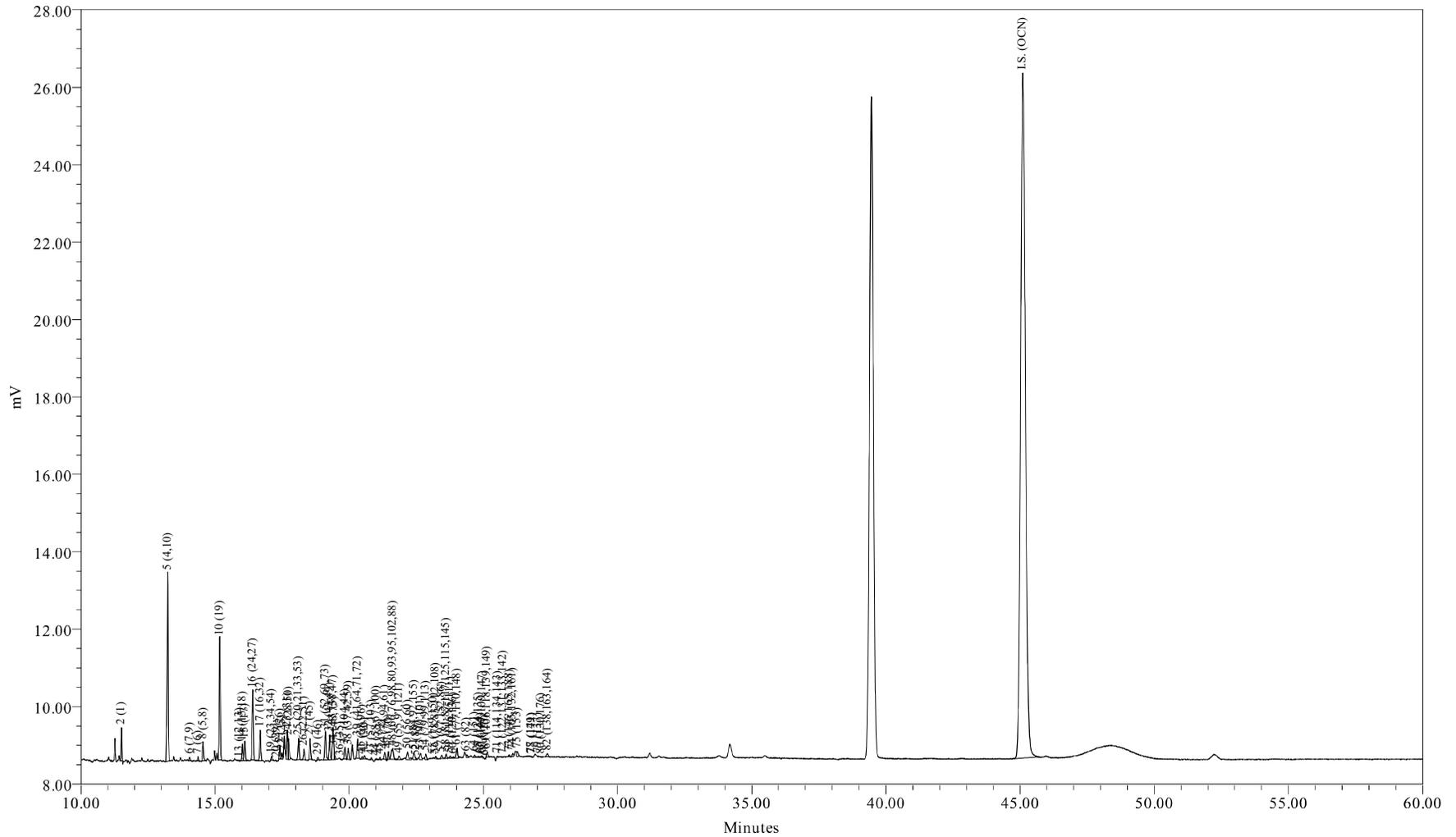
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09080314
ELAP ID No:	11078	LRF ID:	09080314-01
Matrix:	Water	Client ID:	WFF-LOC5-090824-CT001
Sample Wt(Dry)/Vol:	1060 mL	Lab Sample ID:	AM14595
% Moisture:	100	Lab File ID:	GC24-154-1
Extraction:	Solid Phase Extraction - 1L	Date Received:	08/24/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	08/27/2009 20:59
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm		

OCN (I.S.) Peak Area: 222256

Percent Recovery (50 - 150 %): 123

SAMPLE TOTAL PCB CONCENTRATION: 140 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM14595  
Sample ID: WFF-LOC5-090824-CT001  
Date Acquired: 8/27/2009 8:59:06 PM EDT

Sample Amount (L) : 1.0600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-1

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 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/27/2009 20:59:06  
 Lab Sample ID: AM14595  
 LRF ID: 09080314-01  
 Lab File ID: GC24-154-1

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 140 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	17.91	21.70
Di	49.37	50.57
Tri	22.06	19.58
Tetra	8.06	6.34
Penta	2.44	1.71
Hexa	0.16	0.10
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	25.1406	88.4	89.8
A1242	23+24/31+28	2.7887	9.81	9.96
A1254SED	61/100	0.5109	1.80	
A1254BIO	69+75+82/149+153+138	0.0710		0.254
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.80

Meta + Para Cl / biphenyl Residue = 0.36

Total Cl / biphenyl Residue = 2.16

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/27/2009 20:59:06  
 Lab Sample ID: AM14595  
 LRF ID: 09080314-01  
 Lab File ID: GC24-154-1

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7	1529	25.1	133	0.529	2.19	
3	12.52	188.7				6.63	1000	U
4	12.62	188.7				0.355	1.28	U
5	13.23	223.1	3016	66.7	299	0.670	3.11	
6	14.06	223.1	229	0.184	0.824	0.0721	0.219	J
7	14.37	223.1	235	0.438	1.96	0.158	0.347	
8	14.55	223.1	1269	1.56	6.99	0.542	2.56	J
9	15.10	223.1				0.294	25.0	U
10	15.18	257.5	1839	12.4	48.0	0.302	0.512	
11	15.64	257.5				0.198	25.0	U
12	15.71	223.1				0.306	25.0	U
13	15.91	223.1	17			0.0559	0.0975	U
14	16.02	249.0	1143	1.59	6.38	0.128	0.676	
15	16.11	257.5	1409	3.30	12.8	0.143	0.676	
16	16.40	257.5	4841	3.92	15.2	0.0374	0.0475	
17	16.69	257.5	2243	3.12	12.1	0.166	0.713	
19	17.11	267.9	260	0.310	1.16	0.128	25.0	J
20	17.29	257.5	4			0.0108	0.0194	U
21	17.42	257.5	831	0.913	3.55	0.0606	0.132	
22	17.49	257.5	417	0.342	1.33	0.0426	0.0585	
23	17.69	257.5	2196	1.86	7.23	0.487	0.753	
24	17.74	257.5	1461	0.928	3.60	0.211	0.964	J
25	18.11	259.5	1643	1.56	5.99	0.105	0.726	
26	18.31	258.7	805	0.855	3.31	0.120	0.530	
27	18.54	292.0	1522	1.48	5.07	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.84	292.0	248	0.287	0.984	0.127	0.127	
30	18.95	257.5				0.120	25.0	U
31	19.11	292.0	2330	2.93	10.0	0.204	0.872	
32	19.27	292.0	1999	1.24	4.23	0.0978	0.420	
33	19.39	292.0	2743	1.22	4.18	0.0656	0.183	B
34	19.43	292.0	435	0.273	0.934	0.0579	0.183	
35	19.59	292.0				0.205	25.0	U
36	19.67	257.5	34			0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0	889	0.339	1.16	0.160	0.786	J
38	19.96	272.4	901	0.898	3.30	0.115	0.475	
39	20.31	292.0	1601	0.940	3.22	0.121	0.749	
41	20.48	326.4	156	0.174	0.534	0.115	25.0	J
42	20.57	292.0	273	0.219	0.749	0.0968	0.172	
43	20.83	298.9	106			0.152	25.0	U
44	21.01	298.9	66	0.0331	0.111	0.0225	0.0402	J
45	21.15	292.0	104	0.0471	0.161	0.0299	0.0384	
46	21.33	292.0	556	0.163	0.558	0.0821	0.347	J
47	21.46	292.0	598	0.165	0.565	0.164	0.621	J
48	21.62	293.5	1669	1.06	3.60	0.243	1.32	J
49	21.85	324.7	331	0.250	0.770	0.0376	0.0932	
50	22.18	292.0	905	0.373	1.28	0.359	0.640	J
51	22.42	326.4	761	1.08	3.30	0.0888	0.329	
52	22.50	326.4	40			0.0384	0.0384	U
53	22.66	326.4	649	0.363	1.11	0.0691	0.329	
54	22.85	326.4	470	0.187	0.573	0.101	0.135	
55	23.14	326.4	43	0.0131	0.0402	0.00644	0.0102	
56	23.22	326.4	172	0.139	0.427	0.0647	0.0647	
57	23.44	326.4	336	0.149	0.455	0.0435	0.102	
58	23.61	326.4	384	0.184	0.563	0.0841	0.212	J
59	23.76	326.4	205	0.0848	0.260	0.0484	0.128	J
60	23.88	360.9	94			0.0772	0.137	U
61	24.01	326.4	929	0.511	1.57	0.0668	0.389	
62	24.30	360.9				0.113	25.0	U
63	24.38	326.4	299	0.158	0.485	0.0201	0.0804	
64	24.67	360.9	183	0.0589	0.163	0.0518	0.311	J
65	24.81	350.5	71	0.0222	0.0633	0.0149	0.0530	J
66	24.90	360.9	73			0.0541	0.110	U
67	24.95	336.8	131	0.0783	0.232	0.0348	0.0475	
68	25.06	326.4	9			0.125	25.0	U
69	25.14	337.5	420			0.0938	0.731	U
70	25.24	360.9				0.0829	25.0	U
71	25.52	347.8	33			0.0348	0.0369	U
72	25.72	336.8	15			0.00638	0.0106	U
73	25.96	360.9	153	0.0780	0.216	0.0320	0.0713	
74	26.09	347.8	265	0.0776	0.223	0.0721	0.248	J
75	26.26	360.9	515			0.109	0.538	U
76	26.36	360.9				0.107	25.0	U
77	26.78	360.9	23			0.0637	0.311	U
78	26.81	395.3	26			0.0470	0.267	U
79	27.04	360.9	6			0.0501	0.0501	U
80	27.16	360.9	12			0.0151	0.0475	U
82	27.39	360.9	333			0.108	0.493	U
83	27.56	360.9				0.0450	0.0457	U
84	27.75	360.9				0.00310	0.00473	U
85	28.08	395.3				0.0677	0.201	U
87	28.38	395.3				0.0156	0.0731	U
88	28.51	395.3				0.102	0.658	U
89	28.63	360.9				0.0199	0.0366	U
90	28.81	395.3				0.0679	0.311	U
91	29.06	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.0225	0.0859	U
93	29.73	394.3				0.102	0.585	U
94	29.99	394.3				0.0936	0.311	U
95	30.27	382.2				0.0871	0.144	U
96	30.53	429.8				0.00942	0.0121	U
98	30.69	395.3				0.0133	0.0139	U
99	31.05	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.53	429.8				0.217	0.217	U
102	31.73	395.3				0.150	1.11	U
103	31.97	395.3				0.0640	0.0768	U
104	32.26	395.3				0.0374	0.0438	U
105	32.59	429.8				0.0460	0.0786	U
106	33.70	395.3				0.0538	0.234	U
107	33.96	395.3				0.0213	0.0768	U
108	34.77	429.8				0.0324	0.0438	U
109	34.99	429.8				0.116	0.768	U
110	35.52	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 140 ng/L

9.86

35.1

Total Nanomoles = 0.614

Average Molecular Weight = 228.6

Number of Calibrated Peaks Found = 67

Internal Standard Retention Time = 45.10 minutes

Internal Standard Peak Area = 222256.0

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
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 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/27/2009 20:59:06  
 Lab Sample ID: AM14595  
 LRF ID: 09080314-01  
 Lab File ID: GC24-154-1

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2552	2	17.910	21.702
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2933	2-2; 26	47.537	48.718
6	14.06	2:1	007 009	0.3118	24; 25	0.131	0.134
7	14.37	2:1	006	0.3186	2-3	0.312	0.319
8	14.55	2:1	005 008	0.3226	23; 2-4	1.110	1.138
9	15.10	2:0	014		35	-	-
10	15.18	3:3	019	0.3366	26-2	8.810	7.823
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018	0.3552	4-4; 25-2	1.131	1.039
15	16.11	3:2	017	0.3572	24-2	2.352	2.088
16	16.40	3:2	024 027	0.3636	236; 26-3	2.794	2.481
17	16.69	3:2	016 032	0.3701	23-2; 26-4	2.221	1.972
19	17.11	3:1 4:4	023 034 054	0.3794	235; 35-2; 26-26	0.221	0.188
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026	0.3863	25-3	0.650	0.578
22	17.49	3:1	025	0.3878	24-3	0.244	0.217
23	17.69	3:1	031	0.3922	25-4	1.326	1.177
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	0.661	0.587
25	18.11	3:1 4:3	020 021 033 053	0.4016	23-3; 234; 34-2; 25-26	1.108	0.976
26	18.31	3:1 4:3	022 051	0.4060	23-4; 24-26	0.609	0.538
27	18.54	4:3	045	0.4111	236-2	1.056	0.827
28	18.69	3:0	036		35-3	-	-
29	18.84	4:3	046	0.4177	23-26	0.205	0.160
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4237	25-25; 246-3; 26-35	2.085	1.633
32	19.27	4:2	043 049	0.4273	235-2; 24-25	0.880	0.689
33	19.39	4:2	038 047	0.4299	345; 24-24	0.869	0.680
34	19.43	4:2	048 075	0.4308	245-2; 246-4	0.194	0.152
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.67	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044	0.4399	246-26; 23-25	0.242	0.189
38	19.96	3:0 4:2	037 042 059	0.4426	34-4; 23-24; 236-3	0.640	0.537
39	20.31	4:2	041 064 071 072	0.4503	234-2; 236-4; 26-34; 25-35	0.670	0.524

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096	0.4541	24-35; 236-26	0.124	0.087
42	20.57	4:2	040	0.4561	23-23	0.156	0.122
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100	0.4659	23-35; 245-3; 246-24	0.024	0.018
45	21.15	4:1	063	0.4690	235-4	0.034	0.026
46	21.33	4:1 5:3	074 094 061	0.4729	245-4; 235-26; 2345	0.116	0.091
47	21.46	4:1	070	0.4758	25-34	0.118	0.092
48	21.62	4:1 5:3	066 076 098 080 093 095 102 088	0.4794	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.754	0.587
49	21.85	4:1 5:3	055 091 121	0.4845	234-3; 236-24; 246-35	0.178	0.125
50	22.18	4:1	056 060	0.4918	23-34; 234-4	0.266	0.208
51	22.42	5:3 6:4	084 092 155	0.4971	236-23; 235-25; 246-246	0.767	0.537
52	22.50	5:3	089		234-26	-	-
53	22.66	5:2	090 101	0.5024	235-24; 245-25	0.259	0.181
54	22.85	5:2	079 099 113	0.5067	34-35; 245-24; 236-35	0.133	0.093
55	23.14	5:2 6:4	119 150	0.5131	246-34; 236-246	0.009	0.007
56	23.22	5:2	078 083 112 108	0.5149	345-3; 235-23; 2356-3; 2346-3	0.099	0.069
57	23.44	5:2 6:4	097 152 086	0.5197	245-23; 2356-26; 2345-2	0.106	0.074
58	23.61	5:2	081 087 117 125 115 145	0.5235	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.131	0.092
59	23.76	5:2	116 085 111	0.5268	23456; 234-24; 235-35	0.060	0.042
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.01	5:2	077 110 148	0.5324	34-34; 236-34; 235-246	0.364	0.255
62	24.30	6:3	154		245-246	-	-
63	24.38	5:2	082	0.5406	234-23	0.113	0.079
64	24.67	6:3	151	0.5470	2356-25	0.042	0.027
65	24.81	5:1 6:3	124 135	0.5501	345-25; 235-236	0.016	0.010
66	24.90	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147	0.5532	234-35; 235-34; 2356-24	0.056	0.038
68	25.06	5:1	123		345-24	-	-
69	25.14	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.96	6:2	146 165 188	0.5756	235-245; 2356-35; 2356-246	0.056	0.035
74	26.09	5:1 6:3	105 132 161	0.5785	234-34; 234-236; 2346-35	0.055	0.036
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.78	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.04	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.39	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 140 ng/L

Total Nanomoles = 0.614

Average Molecular Weight = 228.6

Number of Calibrated Peaks Found = 67

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

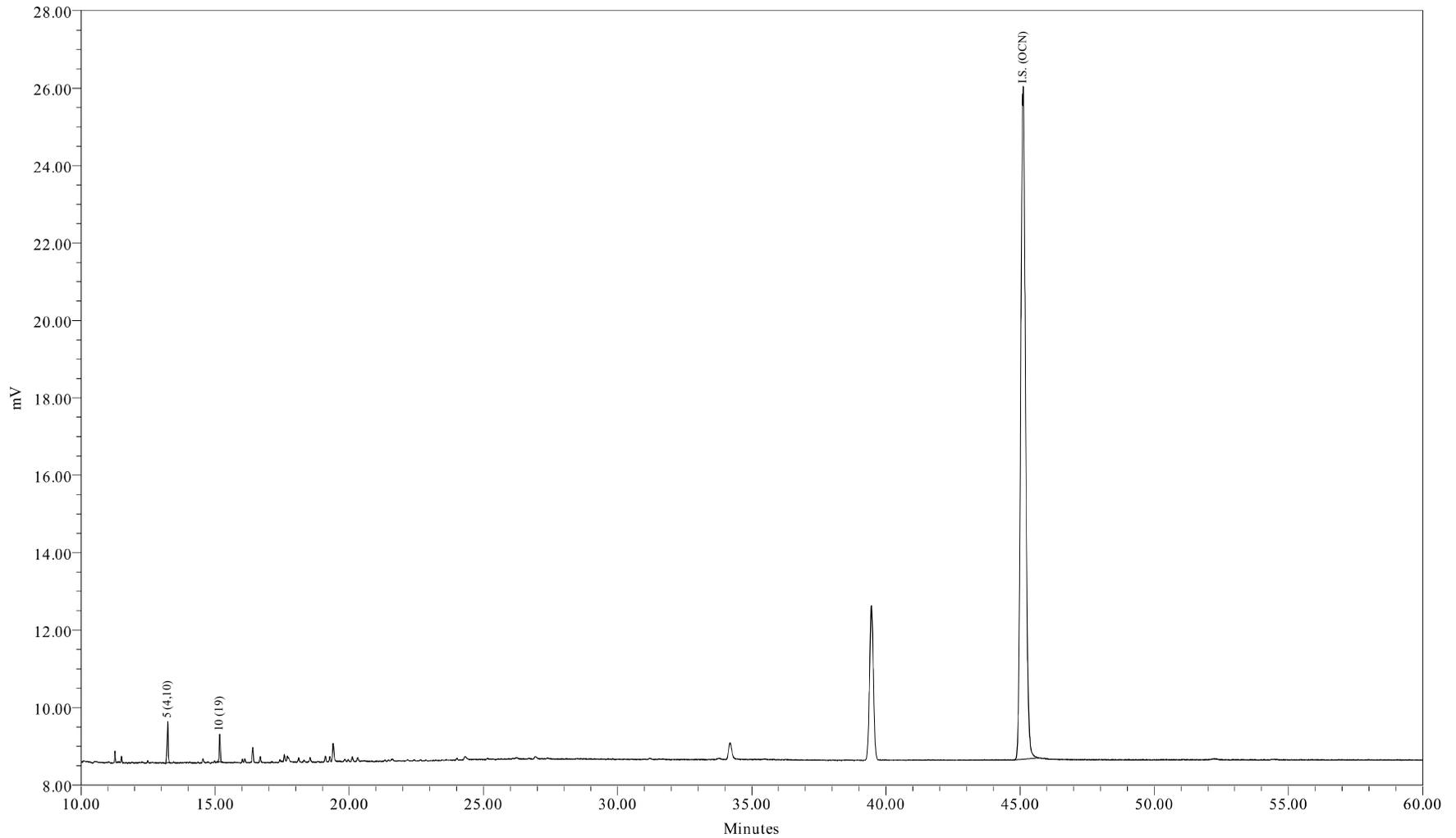
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: AM14595DL1  
Sample ID: WFF-LOC5-090824-CT001  
Date Acquired: 8/27/2009 10:04:31 PM EDT

Sample Amount (L) : 1.0600  
Dilution: 25  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-2

Sample Name: AM14595DL1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/27/2009 22:04:31  
 Lab Sample ID: AM14595DL1  
 LRF ID: 09080314-01DL1  
 Lab File ID: GC24-154-2

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 79.1 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	84.37	86.16
Tri	15.63	13.84
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.14

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.14

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/27/2009 22:04:31  
 Lab Sample ID: AM14595DL1  
 LRF ID: 09080314-01DL1  
 Lab File ID: GC24-154-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				2.64	11.0	U
3	12.52	188.7				33.1	5000	U
4	12.62	188.7				1.77	6.40	U
5	13.23	223.1	3016	66.7	299	0.670	3.11	
6	14.06	223.1				0.360	1.10	U
7	14.37	223.1				0.791	1.74	U
8	14.55	223.1				2.71	12.8	U
9	15.10	223.1				1.47	125	U
10	15.18	257.5	1839	12.4	48.0	0.302	0.512	
11	15.64	257.5				0.992	125	U
12	15.71	223.1				1.53	125	U
13	15.91	223.1				0.279	0.488	U
14	16.03	249.0				0.640	3.38	U
15	16.11	257.5				0.716	3.38	U
16	16.41	257.5				0.187	0.237	U
17	16.66	257.5				0.829	3.56	U
19	17.11	267.9				0.641	125	U
20	17.29	257.5				0.0540	0.0970	U
21	17.42	257.5				0.303	0.658	U
22	17.50	257.5				0.213	0.292	U
23	17.69	257.5				2.44	3.77	U
24	17.75	257.5				1.05	4.82	U
25	18.09	259.5				0.526	3.63	U
26	18.32	258.7				0.598	2.65	U
27	18.55	292.0				0.183	0.813	U
28	18.69	257.5				1.88	125	U
29	18.82	292.0				0.634	0.634	U
30	18.95	257.5				0.601	125	U
31	19.11	292.0				1.02	4.36	U
32	19.28	292.0				0.489	2.10	U
33	19.39	292.0				0.328	0.914	U
34	19.46	292.0				0.289	0.914	U
35	19.59	292.0				1.02	125	U
36	19.68	257.5				0.722	125	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				0.802	3.93	U
38	19.97	272.4				0.573	2.38	U
39	20.32	292.0				0.607	3.75	U
41	20.48	326.4				0.573	125	U
42	20.58	292.0				0.484	0.859	U
43	20.83	298.9				0.762	125	U
44	21.01	298.9				0.113	0.201	U
45	21.16	292.0				0.150	0.192	U
46	21.33	292.0				0.410	1.74	U
47	21.46	292.0				0.818	3.11	U
48	21.57	293.5				1.22	6.58	U
49	21.87	324.7				0.188	0.466	U
50	22.18	292.0				1.80	3.20	U
51	22.41	326.4				0.444	1.64	U
52	22.52	326.4				0.192	0.192	U
53	22.67	326.4				0.345	1.64	U
54	22.86	326.4				0.506	0.676	U
55	23.14	326.4				0.0322	0.0512	U
56	23.24	326.4				0.324	0.324	U
57	23.45	326.4				0.217	0.512	U
58	23.62	326.4				0.421	1.06	U
59	23.77	326.4				0.242	0.640	U
60	23.89	360.9				0.386	0.685	U
61	24.02	326.4				0.334	1.95	U
62	24.30	360.9				0.565	125	U
63	24.39	326.4				0.100	0.402	U
64	24.68	360.9				0.259	1.55	U
65	24.82	350.5				0.0746	0.265	U
66	24.89	360.9				0.270	0.548	U
67	24.95	336.8				0.174	0.237	U
68	25.04	326.4				0.626	125	U
69	25.13	337.5				0.469	3.65	U
70	25.24	360.9				0.414	125	U
71	25.52	347.8				0.174	0.184	U
72	25.72	336.8				0.0319	0.0532	U
73	25.99	360.9				0.160	0.356	U
74	26.10	347.8				0.360	1.24	U
75	26.26	360.9				0.545	2.69	U
76	26.36	360.9				0.535	125	U
77	26.76	360.9				0.319	1.55	U
78	26.82	395.3				0.235	1.33	U
79	27.03	360.9				0.251	0.251	U
80	27.17	360.9				0.0754	0.237	U
82	27.39	360.9				0.539	2.47	U
83	27.56	360.9				0.225	0.228	U
84	27.75	360.9				0.0155	0.0236	U
85	28.08	395.3				0.339	1.00	U
87	28.38	395.3				0.0782	0.366	U
88	28.51	395.3				0.509	3.29	U
89	28.63	360.9				0.0997	0.183	U
90	28.81	395.3				0.339	1.55	U
91	29.06	360.9				0.174	0.174	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.112	0.429	U
93	29.73	394.3				0.512	2.92	U
94	29.99	394.3				0.468	1.55	U
95	30.27	382.2				0.436	0.722	U
96	30.53	429.8				0.0471	0.0605	U
98	30.69	395.3				0.0667	0.0695	U
99	31.05	429.8				0.431	0.431	U
100	31.27	395.3				0.633	0.633	U
101	31.53	429.8				1.09	1.09	U
102	31.73	395.3				0.751	5.57	U
103	31.97	395.3				0.320	0.384	U
104	32.26	395.3				0.187	0.219	U
105	32.59	429.8				0.230	0.393	U
106	33.70	395.3				0.269	1.17	U
107	33.96	395.3				0.106	0.384	U
108	34.77	429.8				0.162	0.219	U
109	34.99	429.8				0.578	3.84	U
110	35.52	429.8				0.922	3.93	U
111	36.64	395.3				0.115	0.115	U
112	38.10	429.8				0.184	0.505	U
113	38.59	464.2				0.219	0.452	U
114	39.49	464.2				0.0770	0.170	U
115	40.84	429.8				0.484	1.64	U
116	41.67	429.8				0.419	0.419	U
117	46.57	464.2				0.192	0.621	U
118	52.30	498.6				0.0629	0.0629	U

Total Concentration = 79.1 ng/L 45.5      161      J

Total Nanomoles = 0.347

Average Molecular Weight = 227.9

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 45.12 minutes

Internal Standard Peak Area = 219789.9

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
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 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/27/2009 22:04:31  
 Lab Sample ID: AM14595DL1  
 LRF ID: 09080314-01DL1  
 Lab File ID: GC24-154-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001		2	-	-
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2932	2-2; 26	84.365	86.165
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.10	2:0	014		35	-	-
10	15.18	3:3	019	0.3364	26-2	15.635	13.835
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013		34; 3-4	-	-
14	16.03	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.41	3:2	024 027		236; 26-3	-	-
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.69	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.55	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046		23-26	-	-
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.87	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.18	4:1	056 060		23-34; 234-4	-	-
51	22.41	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.52	5:3	089		234-26	-	-
53	22.67	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.14	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.24	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.45	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.62	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.89	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.30	6:3	154		245-246	-	-
63	24.39	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.82	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.89	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.13	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.99	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.82	7:4	179		2356-236	-	-
79	27.03	6:2	137		2345-24	-	-
80	27.17	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.39	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 79.1 ng/L

Total Nanomoles = 0.347

Average Molecular Weight = 227.9

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 1020 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

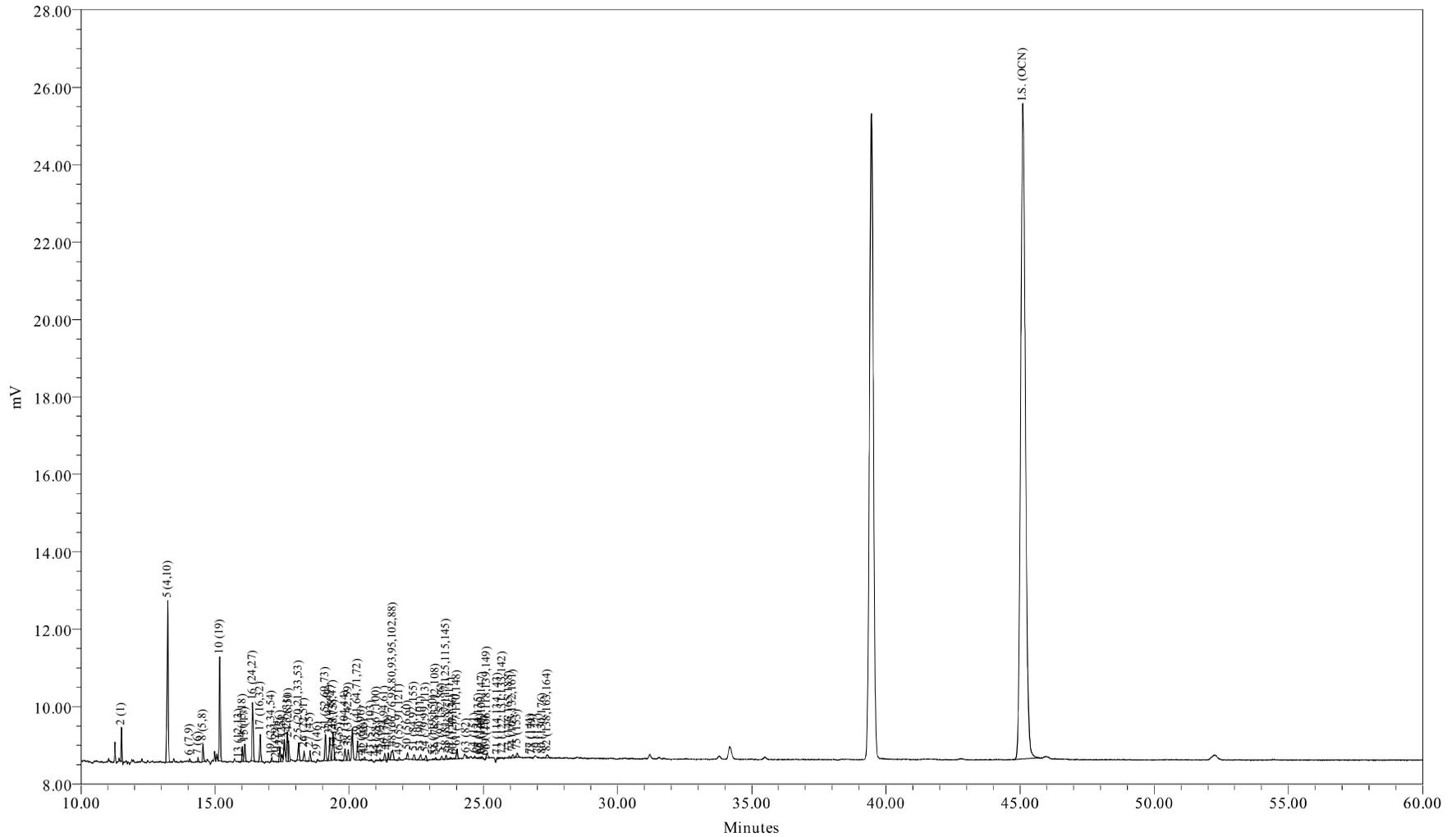
SDG No: 09080314  
LRF ID: 09080314-02  
Client ID: WFF-SCHU-090824-CT001  
Lab Sample ID: AM14596  
Lab File ID: GC24-154-3  
Date Received: 08/24/2009  
Date Extracted: 08/24/2009  
Date/Time Analyzed: 08/27/2009 23:09  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 211517

Percent Recovery (50 - 150 %): 117

SAMPLE TOTAL PCB CONCENTRATION: 135 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM14596  
Sample ID: WFF-SCHU-090824-CT001  
Date Acquired: 8/27/2009 11:09:56 PM EDT

Sample Amount (L) : 1.0200  
Dilution: 5  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-3

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/27/2009 23:09:56  
 Lab Sample ID: AM14596  
 LRF ID: 09080314-02  
 Lab File ID: GC24-154-3

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 135 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	19.63	23.67
Di	48.47	49.39
Tri	22.04	19.46
Tetra	7.31	5.72
Penta	2.29	1.59
Hexa	0.26	0.17
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	26.5736	88.2	89.2
A1242	23+24/31+28	3.1283	10.4	10.5
A1254SED	61/100	0.4343	1.44	
A1254BIO	69+75+82/149+153+138	0.0883		0.296
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.77

Meta + Para Cl / biphenyl Residue = 0.36

Total Cl / biphenyl Residue = 2.13

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/27/2009 23:09:56  
 Lab Sample ID: AM14596  
 LRF ID: 09080314-02  
 Lab File ID: GC24-154-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7	1480	26.6	141	0.529	2.19	
3	12.52	188.7				6.63	1000	U
4	12.62	188.7				0.355	1.28	U
5	13.23	223.1	2723	63.1	283	0.670	3.11	
6	14.05	223.1	201	0.173	0.773	0.0721	0.219	J
7	14.36	223.1	246	0.505	2.26	0.158	0.347	
8	14.55	223.1	1117	1.48	6.64	0.542	2.56	J
9	15.10	223.1				0.294	25.0	U
10	15.17	257.5	1574	11.1	43.0	0.302	0.512	
11	15.64	257.5				0.198	25.0	U
12	15.71	223.1				0.306	25.0	U
13	15.89	223.1	28			0.0559	0.0975	U
14	16.02	249.0	951	1.41	5.68	0.128	0.676	
15	16.11	257.5	1226	3.12	12.1	0.143	0.676	
16	16.40	257.5	4085	3.61	14.0	0.0374	0.0475	
17	16.69	257.5	2107	3.20	12.4	0.166	0.713	
19	17.11	267.9	246	0.320	1.19	0.128	25.0	J
20	17.28	257.5	6			0.0108	0.0194	U
21	17.41	257.5	967	1.16	4.50	0.0606	0.132	
22	17.49	257.5	626	0.563	2.19	0.0426	0.0585	
23	17.69	257.5	2238	2.08	8.08	0.487	0.753	
24	17.74	257.5	1485	1.05	4.07	0.211	0.964	
25	18.12	259.5	1367	1.39	5.36	0.105	0.726	
26	18.32	258.7	761	0.883	3.41	0.120	0.530	
27	18.54	292.0	773	0.814	2.79	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.82	292.0	122	0.155	0.532	0.127	0.127	
30	18.95	257.5				0.120	25.0	U
31	19.11	292.0	2038	2.78	9.52	0.204	0.872	
32	19.27	292.0	1790	1.20	4.12	0.0978	0.420	
33	19.39	292.0	2324	1.12	3.83	0.0656	0.183	B
34	19.44	292.0	333	0.225	0.771	0.0579	0.183	
35	19.59	292.0				0.205	25.0	U
36	19.64	257.5	48			0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0	932	0.433	1.48	0.160	0.786	J
38	19.96	272.4	848	0.922	3.39	0.115	0.475	
39	20.31	292.0	1743	1.13	3.89	0.121	0.749	
41	20.47	326.4	103	0.126	0.385	0.115	25.0	J
42	20.57	292.0	218	0.191	0.654	0.0968	0.172	
43	20.82	298.9	79			0.152	25.0	U
44	21.02	298.9	89	0.0509	0.170	0.0225	0.0402	
45	21.15	292.0	122	0.0637	0.218	0.0299	0.0384	
46	21.33	292.0	563	0.186	0.637	0.0821	0.347	J
47	21.46	292.0	452			0.164	0.621	U
48	21.62	293.5	1464	0.985	3.36	0.243	1.32	J
49	21.86	324.7	253	0.209	0.645	0.0376	0.0932	
50	22.17	292.0	460			0.359	0.640	U
51	22.41	326.4	536	0.817	2.50	0.0888	0.329	
52	22.52	326.4				0.0384	0.0384	U
53	22.66	326.4	667	0.413	1.27	0.0691	0.329	
54	22.85	326.4	527	0.232	0.711	0.101	0.135	
55	23.12	326.4	34	0.0110	0.0337	0.00644	0.0102	
56	23.22	326.4	157	0.139	0.426	0.0647	0.0647	
57	23.44	326.4	288	0.136	0.417	0.0435	0.102	
58	23.61	326.4	365	0.191	0.585	0.0841	0.212	J
59	23.77	326.4	149	0.0638	0.196	0.0484	0.128	J
60	23.88	360.9	54			0.0772	0.137	U
61	24.01	326.4	751	0.434	1.33	0.0668	0.389	
62	24.30	360.9				0.113	25.0	U
63	24.37	326.4	193	0.109	0.335	0.0201	0.0804	
64	24.67	360.9	108			0.0518	0.311	U
65	24.82	350.5	63	0.0215	0.0613	0.0149	0.0530	J
66	24.89	360.9	88	0.0647	0.179	0.0541	0.110	J
67	24.95	336.8	149	0.0983	0.292	0.0348	0.0475	
68	25.06	326.4	14			0.125	25.0	U
69	25.14	337.5	428			0.0938	0.731	U
70	25.24	360.9				0.0829	25.0	U
71	25.52	347.8	159	0.0929	0.267	0.0348	0.0369	
72	25.71	336.8	50	0.0228	0.0676	0.00638	0.0106	
73	25.96	360.9	194	0.107	0.297	0.0320	0.0713	
74	26.10	347.8	326	0.113	0.326	0.0721	0.248	J
75	26.26	360.9	492			0.109	0.538	U
76	26.36	360.9				0.107	25.0	U
77	26.75	360.9	18			0.0637	0.311	U
78	26.83	395.3	21			0.0470	0.267	U
79	27.04	360.9	15			0.0501	0.0501	U
80	27.20	360.9	21			0.0151	0.0475	U
82	27.38	360.9	382			0.108	0.493	U
83	27.56	360.9				0.0450	0.0457	U
84	27.75	360.9				0.00310	0.00473	U
85	28.08	395.3				0.0677	0.201	U
87	28.38	395.3				0.0156	0.0731	U
88	28.51	395.3				0.102	0.658	U
89	28.63	360.9				0.0199	0.0366	U
90	28.81	395.3				0.0679	0.311	U
91	29.06	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.0225	0.0859	U
93	29.73	394.3				0.102	0.585	U
94	29.99	394.3				0.0936	0.311	U
95	30.27	382.2				0.0871	0.144	U
96	30.53	429.8				0.00942	0.0121	U
98	30.69	395.3				0.0133	0.0139	U
99	31.05	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.53	429.8				0.217	0.217	U
102	31.73	395.3				0.150	1.11	U
103	31.97	395.3				0.0640	0.0768	U
104	32.26	395.3				0.0374	0.0438	U
105	32.59	429.8				0.0460	0.0786	U
106	33.70	395.3				0.0538	0.234	U
107	33.96	395.3				0.0213	0.0768	U
108	34.77	429.8				0.0324	0.0438	U
109	34.99	429.8				0.116	0.768	U
110	35.52	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 135 ng/L

9.86 35.1

Total Nanomoles = 0.595

Average Molecular Weight = 227.5

Number of Calibrated Peaks Found = 66

Internal Standard Retention Time = 45.10 minutes

Internal Standard Peak Area = 211517.5

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/27/2009 23:09:56  
 Lab Sample ID: AM14596  
 LRF ID: 09080314-02  
 Lab File ID: GC24-154-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2552	2	19.634	23.668
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2933	2-2; 26	46.612	47.526
6	14.05	2:1	007 009	0.3115	24; 25	0.127	0.130
7	14.36	2:1	006	0.3184	2-3	0.373	0.380
8	14.55	2:1	005 008	0.3226	23; 2-4	1.094	1.116
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3364	26-2	8.179	7.225
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.89	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018	0.3552	4-4; 25-2	1.045	0.955
15	16.11	3:2	017	0.3572	24-2	2.307	2.038
16	16.40	3:2	024 027	0.3636	236; 26-3	2.670	2.358
17	16.69	3:2	016 032	0.3701	23-2; 26-4	2.362	2.087
19	17.11	3:1 4:4	023 034 054	0.3794	235; 35-2; 26-26	0.236	0.201
20	17.28	3:1	029		245	-	-
21	17.41	3:1	026	0.3860	25-3	0.857	0.757
22	17.49	3:1	025	0.3878	24-3	0.416	0.368
23	17.69	3:1	031	0.3922	25-4	1.537	1.358
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	0.774	0.684
25	18.12	3:1 4:3	020 021 033 053	0.4018	23-3; 234; 34-2; 25-26	1.028	0.901
26	18.32	3:1 4:3	022 051	0.4062	23-4; 24-26	0.652	0.573
27	18.54	4:3	045	0.4111	236-2	0.601	0.468
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046	0.4173	23-26	0.115	0.089
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4237	25-25; 246-3; 26-35	2.055	1.601
32	19.27	4:2	043 049	0.4273	235-2; 24-25	0.888	0.692
33	19.39	4:2	038 047	0.4299	345; 24-24	0.826	0.643
34	19.44	4:2	048 075	0.4310	245-2; 246-4	0.166	0.130
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.64	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044	0.4399	246-26; 23-25	0.320	0.249
38	19.96	3:0 4:2	037 042 059	0.4426	34-4; 23-24; 236-3	0.681	0.569
39	20.31	4:2	041 064 071 072	0.4503	234-2; 236-4; 26-34; 25-35	0.838	0.653

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096	0.4539	24-35; 236-26	0.093	0.065
42	20.57	4:2	040	0.4561	23-23	0.141	0.110
43	20.82	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.02	4:1 5:3	058 067 100	0.4661	23-35; 245-3; 246-24	0.038	0.029
45	21.15	4:1	063	0.4690	235-4	0.047	0.037
46	21.33	4:1 5:3	074 094 061	0.4729	245-4; 235-26; 2345	0.137	0.107
47	21.46	4:1	070		25-34	-	-
48	21.62	4:1 5:3	066 076 098 080 093 095 102 088	0.4794	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.728	0.564
49	21.86	4:1 5:3	055 091 121	0.4847	234-3; 236-24; 246-35	0.155	0.108
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.41	5:3 6:4	084 092 155	0.4969	236-23; 235-25; 246-246	0.604	0.421
52	22.52	5:3	089		234-26	-	-
53	22.66	5:2	090 101	0.5024	235-24; 245-25	0.305	0.213
54	22.85	5:2	079 099 113	0.5067	34-35; 245-24; 236-35	0.171	0.119
55	23.12	5:2 6:4	119 150	0.5126	246-34; 236-246	0.008	0.006
56	23.22	5:2	078 083 112 108	0.5149	345-3; 235-23; 2356-3; 2346-3	0.103	0.072
57	23.44	5:2 6:4	097 152 086	0.5197	245-23; 2356-26; 2345-2	0.101	0.070
58	23.61	5:2	081 087 117 125 115 145	0.5235	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.141	0.098
59	23.77	5:2	116 085 111	0.5271	23456; 234-24; 235-35	0.047	0.033
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.01	5:2	077 110 148	0.5324	34-34; 236-34; 235-246	0.321	0.224
62	24.30	6:3	154		245-246	-	-
63	24.37	5:2	082	0.5404	234-23	0.081	0.056
64	24.67	6:3	151		2356-25	-	-
65	24.82	5:1 6:3	124 135	0.5503	345-25; 235-236	0.016	0.010
66	24.89	6:3	144	0.5519	2346-25	0.048	0.030
67	24.95	5:1 6:3	107 109 147	0.5532	234-35; 235-34; 2356-24	0.073	0.049
68	25.06	5:1	123		345-24	-	-
69	25.14	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143	0.5659	2345-4; 2356-23; 2345-26	0.069	0.045
72	25.71	5:1 6:3	122 131 133 142	0.5701	345-23; 2346-23; 235-235; 23456-2	0.017	0.011
73	25.96	6:2	146 165 188	0.5756	235-245; 2356-35; 2356-246	0.079	0.050
74	26.10	5:1 6:3	105 132 161	0.5787	234-34; 234-236; 2346-35	0.084	0.055
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.75	6:2	141		2345-25	-	-
78	26.83	7:4	179		2356-236	-	-
79	27.04	6:2	137		2345-24	-	-
80	27.20	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 135 ng/L

Total Nanomoles = 0.595

Average Molecular Weight = 227.5

Number of Calibrated Peaks Found = 66

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

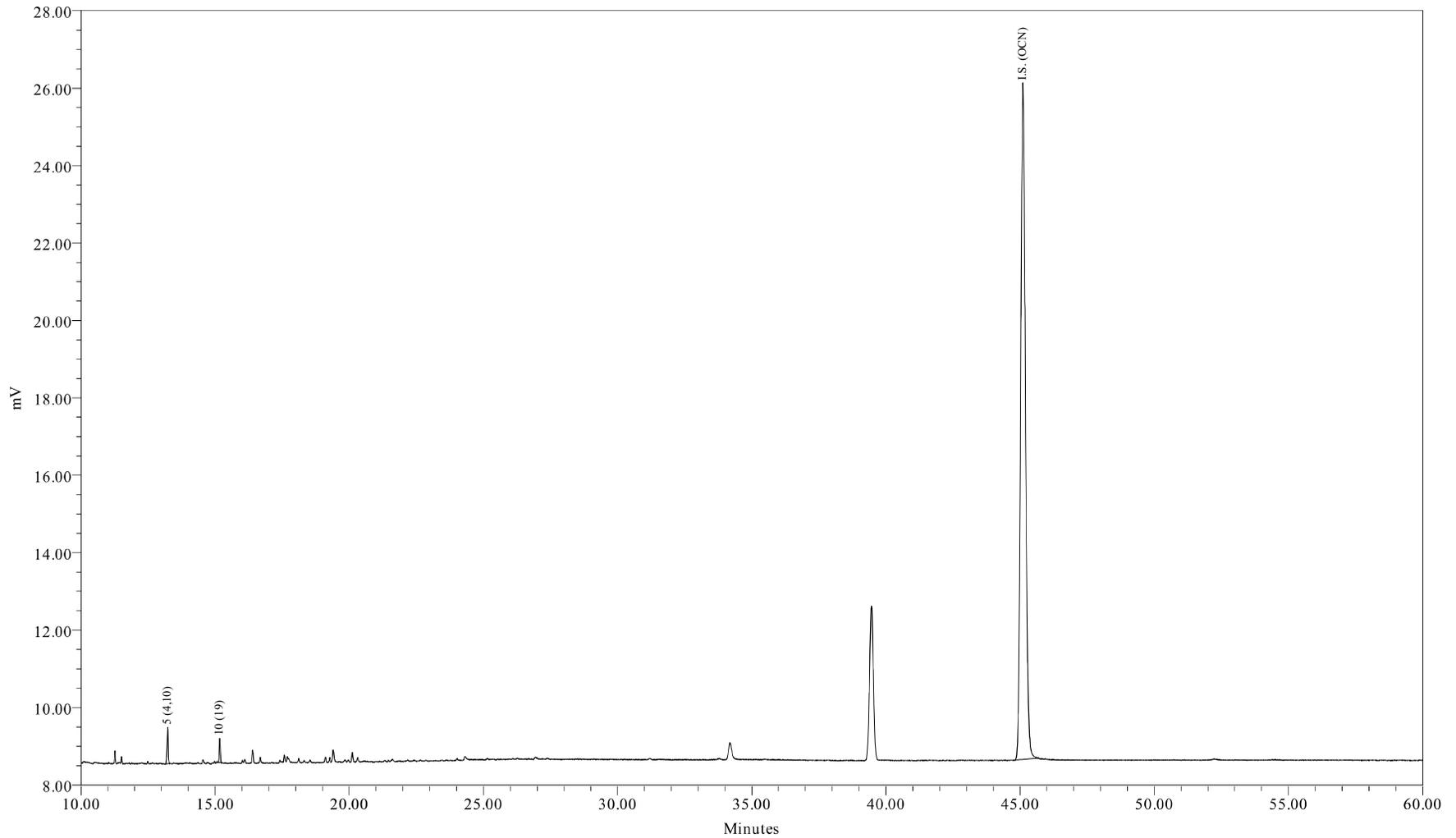
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



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Sample Name: AM14596DL1  
Sample ID: WFF-SCHU-090824-CT001  
Date Acquired: 8/28/2009 12:15:36 AM EDT

Sample Amount (L) : 1.0200  
Dilution: 25  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-4

Sample Name: AM14596DL1

1 of 1

Northeast Analytical, Inc.  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 00:15:36  
 Lab Sample ID: AM14596DL1  
 LRF ID: 09080314-02DL1  
 Lab File ID: GC24-154-4

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 74.2 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	85.07	86.80
Tri	14.93	13.20
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.13

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.13

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 00:15:36  
 Lab Sample ID: AM14596DL1  
 LRF ID: 09080314-02DL1  
 Lab File ID: GC24-154-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				2.64	11.0	U
3	12.52	188.7				33.1	5000	U
4	12.62	188.7				1.77	6.40	U
5	13.23	223.1	2723	63.1	283	0.670	3.11	
6	14.06	223.1				0.360	1.10	U
7	14.37	223.1				0.791	1.74	U
8	14.55	223.1				2.71	12.8	U
9	15.10	223.1				1.47	125	U
10	15.17	257.5	1574	11.1	43.0	0.302	0.512	
11	15.64	257.5				0.992	125	U
12	15.71	223.1				1.53	125	U
13	15.91	223.1				0.279	0.488	U
14	16.03	249.0				0.640	3.38	U
15	16.11	257.5				0.716	3.38	U
16	16.41	257.5				0.187	0.237	U
17	16.66	257.5				0.829	3.56	U
19	17.11	267.9				0.641	125	U
20	17.29	257.5				0.0540	0.0970	U
21	17.42	257.5				0.303	0.658	U
22	17.50	257.5				0.213	0.292	U
23	17.69	257.5				2.44	3.77	U
24	17.75	257.5				1.05	4.82	U
25	18.09	259.5				0.526	3.63	U
26	18.32	258.7				0.598	2.65	U
27	18.55	292.0				0.183	0.813	U
28	18.69	257.5				1.88	125	U
29	18.82	292.0				0.634	0.634	U
30	18.95	257.5				0.601	125	U
31	19.11	292.0				1.02	4.36	U
32	19.28	292.0				0.489	2.10	U
33	19.39	292.0				0.328	0.914	U
34	19.46	292.0				0.289	0.914	U
35	19.59	292.0				1.02	125	U
36	19.68	257.5				0.722	125	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				0.802	3.93	U
38	19.97	272.4				0.573	2.38	U
39	20.32	292.0				0.607	3.75	U
41	20.48	326.4				0.573	125	U
42	20.58	292.0				0.484	0.859	U
43	20.83	298.9				0.762	125	U
44	21.01	298.9				0.113	0.201	U
45	21.16	292.0				0.150	0.192	U
46	21.33	292.0				0.410	1.74	U
47	21.46	292.0				0.818	3.11	U
48	21.57	293.5				1.22	6.58	U
49	21.87	324.7				0.188	0.466	U
50	22.18	292.0				1.80	3.20	U
51	22.41	326.4				0.444	1.64	U
52	22.52	326.4				0.192	0.192	U
53	22.67	326.4				0.345	1.64	U
54	22.86	326.4				0.506	0.676	U
55	23.14	326.4				0.0322	0.0512	U
56	23.24	326.4				0.324	0.324	U
57	23.45	326.4				0.217	0.512	U
58	23.62	326.4				0.421	1.06	U
59	23.77	326.4				0.242	0.640	U
60	23.89	360.9				0.386	0.685	U
61	24.02	326.4				0.334	1.95	U
62	24.30	360.9				0.565	125	U
63	24.39	326.4				0.100	0.402	U
64	24.68	360.9				0.259	1.55	U
65	24.82	350.5				0.0746	0.265	U
66	24.89	360.9				0.270	0.548	U
67	24.95	336.8				0.174	0.237	U
68	25.04	326.4				0.626	125	U
69	25.13	337.5				0.469	3.65	U
70	25.24	360.9				0.414	125	U
71	25.52	347.8				0.174	0.184	U
72	25.72	336.8				0.0319	0.0532	U
73	25.99	360.9				0.160	0.356	U
74	26.10	347.8				0.360	1.24	U
75	26.26	360.9				0.545	2.69	U
76	26.36	360.9				0.535	125	U
77	26.76	360.9				0.319	1.55	U
78	26.82	395.3				0.235	1.33	U
79	27.03	360.9				0.251	0.251	U
80	27.17	360.9				0.0754	0.237	U
82	27.39	360.9				0.539	2.47	U
83	27.56	360.9				0.225	0.228	U
84	27.75	360.9				0.0155	0.0236	U
85	28.08	395.3				0.339	1.00	U
87	28.38	395.3				0.0782	0.366	U
88	28.51	395.3				0.509	3.29	U
89	28.63	360.9				0.0997	0.183	U
90	28.81	395.3				0.339	1.55	U
91	29.06	360.9				0.174	0.174	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.112	0.429	U
93	29.73	394.3				0.512	2.92	U
94	29.99	394.3				0.468	1.55	U
95	30.27	382.2				0.436	0.722	U
96	30.53	429.8				0.0471	0.0605	U
98	30.69	395.3				0.0667	0.0695	U
99	31.05	429.8				0.431	0.431	U
100	31.27	395.3				0.633	0.633	U
101	31.53	429.8				1.09	1.09	U
102	31.73	395.3				0.751	5.57	U
103	31.97	395.3				0.320	0.384	U
104	32.26	395.3				0.187	0.219	U
105	32.59	429.8				0.230	0.393	U
106	33.70	395.3				0.269	1.17	U
107	33.96	395.3				0.106	0.384	U
108	34.77	429.8				0.162	0.219	U
109	34.99	429.8				0.578	3.84	U
110	35.52	429.8				0.922	3.93	U
111	36.64	395.3				0.115	0.115	U
112	38.10	429.8				0.184	0.505	U
113	38.59	464.2				0.219	0.452	U
114	39.49	464.2				0.0770	0.170	U
115	40.84	429.8				0.484	1.64	U
116	41.67	429.8				0.419	0.419	U
117	46.57	464.2				0.192	0.621	U
118	52.30	498.6				0.0629	0.0629	U

Total Concentration = 74.2 ng/L 45.5      161      J

Total Nanomoles = 0.326

Average Molecular Weight = 227.6

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 218053.6

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 00:15:36  
 Lab Sample ID: AM14596DL1  
 LRF ID: 09080314-02DL1  
 Lab File ID: GC24-154-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001		2	-	-
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2933	2-2; 26	85.072	86.803
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3363	26-2	14.928	13.197
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013		34; 3-4	-	-
14	16.03	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.41	3:2	024 027		236; 26-3	-	-
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.69	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.55	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046		23-26	-	-
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.87	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.18	4:1	056 060		23-34; 234-4	-	-
51	22.41	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.52	5:3	089		234-26	-	-
53	22.67	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.14	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.24	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.45	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.62	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.89	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.30	6:3	154		245-246	-	-
63	24.39	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.82	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.89	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.13	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.99	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.82	7:4	179		2356-236	-	-
79	27.03	6:2	137		2345-24	-	-
80	27.17	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.39	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 74.2 ng/L

Total Nanomoles = 0.326

Average Molecular Weight = 227.6

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 1040 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

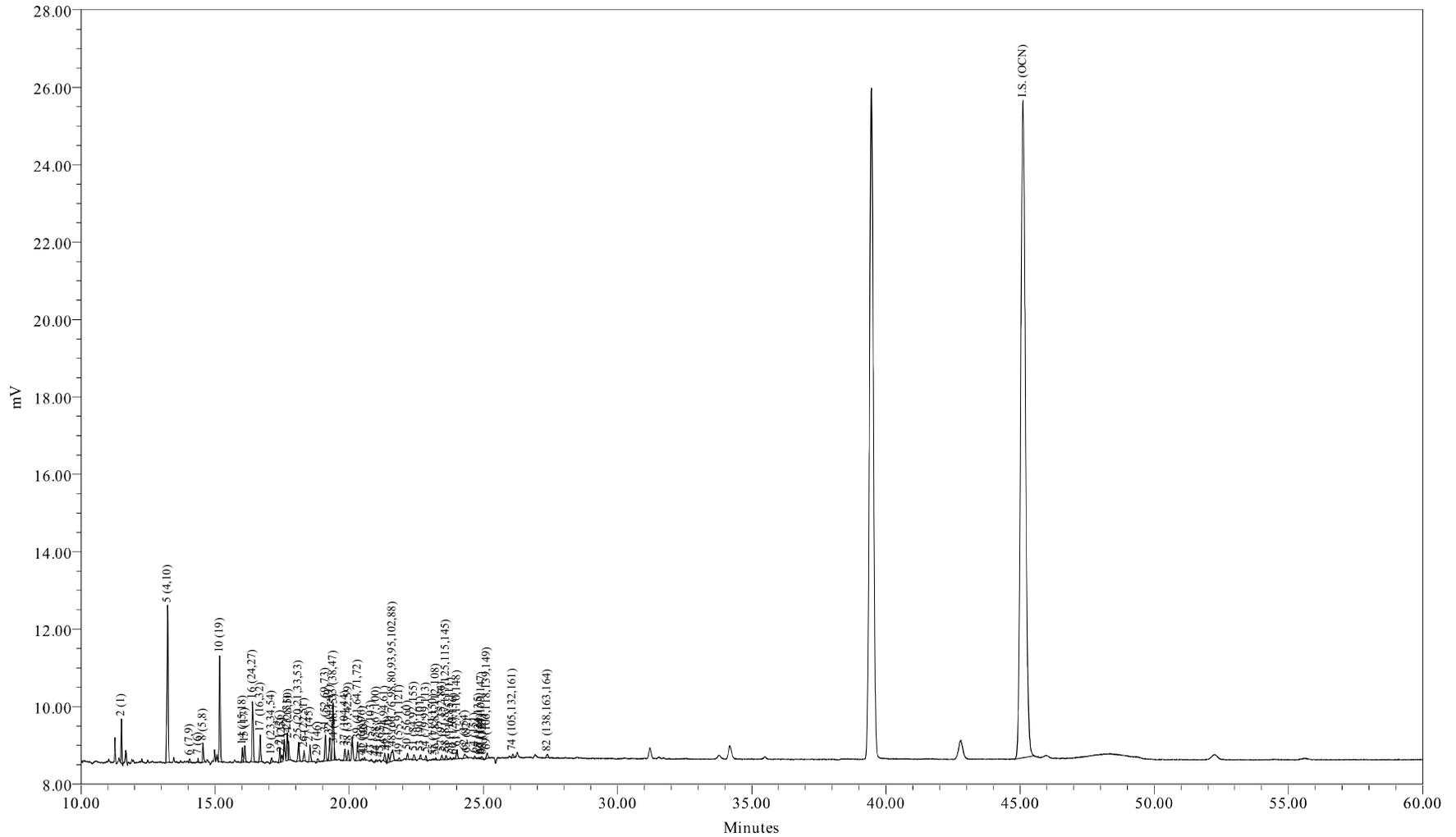
SDG No: 09080314  
LRF ID: 09080314-04  
Client ID: WFF-THIS-090824-CT001  
Lab Sample ID: AM14597  
Lab File ID: GC24-154-5  
Date Received: 08/24/2009  
Date Extracted: 08/24/2009  
Date/Time Analyzed: 08/28/2009 01:21  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 212525

Percent Recovery (50 - 150 %): 118

SAMPLE TOTAL PCB CONCENTRATION: 148 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM14597  
Sample ID: WFF-THIS-090824-CT001  
Date Acquired: 8/28/2009 1:21:00 AM EDT

Sample Amount (L) : 1.0400  
Dilution: 5  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-5

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 01:21:00  
 Lab Sample ID: AM14597  
 LRF ID: 09080314-04  
 Lab File ID: GC24-154-5

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 148 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	25.95	30.90
Di	43.39	43.67
Tri	19.81	17.27
Tetra	8.52	6.58
Penta	1.90	1.31
Hexa	0.42	0.27
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	38.2992	92.4	93.3
A1242	23+24/31+28	2.6910	6.49	6.55
A1254SED	61/100	0.4462	1.08	
A1254BIO	69+75+82/149+153+138	0.0665		0.162
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.70

Meta + Para Cl / biphenyl Residue = 0.35

Total Cl / biphenyl Residue = 2.05

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 01:21:00  
 Lab Sample ID: AM14597  
 LRF ID: 09080314-04  
 Lab File ID: GC24-154-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7	2184	38.3	203	0.529	2.19	
3	12.52	188.7				6.63	1000	U
4	12.62	188.7				0.355	1.28	U
5	13.23	223.1	2742	61.3	275	0.670	3.11	
6	14.05	223.1	308	0.283	1.27	0.0721	0.219	
7	14.36	223.1	239	0.477	2.14	0.158	0.347	
8	14.55	223.1	1259	1.66	7.43	0.542	2.56	J
9	15.10	223.1				0.294	25.0	U
10	15.17	257.5	1595	10.8	42.0	0.302	0.512	
11	15.64	257.5				0.198	25.0	U
12	15.71	223.1				0.306	25.0	U
13	15.91	223.1				0.0559	0.0975	U
14	16.02	249.0	972	1.42	5.68	0.128	0.676	
15	16.11	257.5	1197	2.97	11.5	0.143	0.676	
16	16.40	257.5	4424	3.82	14.8	0.0374	0.0475	
17	16.69	257.5	2042	3.02	11.7	0.166	0.713	
19	17.11	267.9	413	0.524	1.96	0.128	25.0	J
20	17.29	257.5				0.0108	0.0194	U
21	17.41	257.5	970	1.14	4.41	0.0606	0.132	
22	17.49	257.5	596	0.523	2.03	0.0426	0.0585	
23	17.69	257.5	2082	1.88	7.30	0.487	0.753	
24	17.74	257.5	1239	0.811	3.15	0.211	0.964	J
25	18.11	259.5	1530	1.54	5.93	0.105	0.726	
26	18.31	258.7	793	0.899	3.48	0.120	0.530	
27	18.54	292.0	1358	1.41	4.82	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.82	292.0	334	0.411	1.41	0.127	0.127	
30	18.95	257.5				0.120	25.0	U
31	19.11	292.0	2049	2.73	9.35	0.204	0.872	
32	19.27	292.0	1826	1.20	4.10	0.0978	0.420	
33	19.39	292.0	4789	2.34	8.03	0.0656	0.183	B
34	19.44	292.0	472	0.318	1.09	0.0579	0.183	
35	19.59	292.0				0.205	25.0	U
36	19.68	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0	875	0.369	1.26	0.160	0.786	J
38	19.97	272.4	832	0.882	3.24	0.115	0.475	
39	20.31	292.0	1742	1.11	3.79	0.121	0.749	
41	20.49	326.4	146	0.173	0.531	0.115	25.0	J
42	20.57	292.0	208	0.178	0.609	0.0968	0.172	
43	20.82	298.9	135			0.152	25.0	U
44	21.01	298.9	187	0.110	0.367	0.0225	0.0402	
45	21.16	292.0	39			0.0299	0.0384	U
46	21.32	292.0	719	0.256	0.877	0.0821	0.347	J
47	21.46	292.0	849	0.335	1.15	0.164	0.621	J
48	21.62	293.5	1752	1.22	4.15	0.243	1.32	J
49	21.86	324.7	247	0.199	0.614	0.0376	0.0932	
50	22.17	292.0	452			0.359	0.640	U
51	22.41	326.4	524	0.778	2.38	0.0888	0.329	
52	22.52	326.4				0.0384	0.0384	U
53	22.66	326.4	304	0.144	0.441	0.0691	0.329	J
54	22.86	326.4	338	0.139	0.427	0.101	0.135	
55	23.12	326.4	94	0.0305	0.0936	0.00644	0.0102	
56	23.23	326.4	193	0.167	0.512	0.0647	0.0647	
57	23.45	326.4	460	0.228	0.699	0.0435	0.102	
58	23.60	326.4	389	0.201	0.617	0.0841	0.212	J
59	23.76	326.4	181	0.0787	0.241	0.0484	0.128	J
60	23.89	360.9	76			0.0772	0.137	U
61	24.01	326.4	784	0.446	1.37	0.0668	0.389	
62	24.31	360.9	504	0.358	0.993	0.113	25.0	J
63	24.39	326.4	49	0.0211	0.0646	0.0201	0.0804	J
64	24.67	360.9	186	0.0671	0.186	0.0518	0.311	J
65	24.82	350.5	68	0.0227	0.0648	0.0149	0.0530	J
66	24.90	360.9	113	0.0880	0.244	0.0541	0.110	J
67	24.93	336.8	197	0.129	0.384	0.0348	0.0475	
68	24.98	326.4	67			0.125	25.0	U
69	25.14	337.5	520			0.0938	0.731	U
70	25.24	360.9				0.0829	25.0	U
71	25.52	347.8				0.0348	0.0369	U
72	25.72	336.8				0.00638	0.0106	U
73	25.99	360.9				0.0320	0.0713	U
74	26.10	347.8	284	0.0923	0.265	0.0721	0.248	J
75	26.26	360.9				0.109	0.538	U
76	26.36	360.9				0.107	25.0	U
77	26.76	360.9				0.0637	0.311	U
78	26.82	395.3				0.0470	0.267	U
79	27.03	360.9				0.0501	0.0501	U
80	27.17	360.9				0.0151	0.0475	U
82	27.38	360.9	339			0.108	0.493	U
83	27.56	360.9				0.0450	0.0457	U
84	27.75	360.9				0.00310	0.00473	U
85	28.08	395.3				0.0677	0.201	U
87	28.38	395.3				0.0156	0.0731	U
88	28.51	395.3				0.102	0.658	U
89	28.63	360.9				0.0199	0.0366	U
90	28.81	395.3				0.0679	0.311	U
91	29.06	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.0225	0.0859	U
93	29.73	394.3				0.102	0.585	U
94	29.99	394.3				0.0936	0.311	U
95	30.27	382.2				0.0871	0.144	U
96	30.53	429.8				0.00942	0.0121	U
98	30.69	395.3				0.0133	0.0139	U
99	31.05	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.53	429.8				0.217	0.217	U
102	31.73	395.3				0.150	1.11	U
103	31.97	395.3				0.0640	0.0768	U
104	32.26	395.3				0.0374	0.0438	U
105	32.59	429.8				0.0460	0.0786	U
106	33.70	395.3				0.0538	0.234	U
107	33.96	395.3				0.0213	0.0768	U
108	34.77	429.8				0.0324	0.0438	U
109	34.99	429.8				0.116	0.768	U
110	35.52	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 148 ng/L

9.86

35.1

Total Nanomoles = 0.657

Average Molecular Weight = 224.7

Number of Calibrated Peaks Found = 56

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 212524.8

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 01:21:00  
 Lab Sample ID: AM14597  
 LRF ID: 09080314-04  
 Lab File ID: GC24-154-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2552	2	25.955	30.902
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2933	2-2; 26	41.512	41.803
6	14.05	2:1	007 009	0.3115	24; 25	0.192	0.193
7	14.36	2:1	006	0.3183	2-3	0.324	0.326
8	14.55	2:1	005 008	0.3225	23; 2-4	1.123	1.131
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3363	26-2	7.334	6.399
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018	0.3551	4-4; 25-2	0.959	0.865
15	16.11	3:2	017	0.3571	24-2	2.012	1.756
16	16.40	3:2	024 027	0.3636	236; 26-3	2.588	2.258
17	16.69	3:2	016 032	0.3700	23-2; 26-4	2.047	1.786
19	17.11	3:1 4:4	023 034 054	0.3793	235; 35-2; 26-26	0.355	0.298
20	17.29	3:1	029		245	-	-
21	17.41	3:1	026	0.3859	25-3	0.769	0.671
22	17.49	3:1	025	0.3877	24-3	0.355	0.309
23	17.69	3:1	031	0.3922	25-4	1.274	1.112
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	0.550	0.480
25	18.11	3:1 4:3	020 021 033 053	0.4015	23-3; 234; 34-2; 25-26	1.043	0.903
26	18.31	3:1 4:3	022 051	0.4059	23-4; 24-26	0.609	0.529
27	18.54	4:3	045	0.4110	236-2	0.954	0.734
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046	0.4172	23-26	0.279	0.214
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	1.849	1.423
32	19.27	4:2	043 049	0.4272	235-2; 24-25	0.812	0.625
33	19.39	4:2	038 047	0.4298	345; 24-24	1.589	1.223
34	19.44	4:2	048 075	0.4309	245-2; 246-4	0.215	0.166
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044	0.4398	246-26; 23-25	0.250	0.192
38	19.97	3:0 4:2	037 042 059	0.4427	34-4; 23-24; 236-3	0.598	0.493
39	20.31	4:2	041 064 071 072	0.4502	234-2; 236-4; 26-34; 25-35	0.750	0.577

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.49	5:4	068 096	0.4542	24-35; 236-26	0.118	0.081
42	20.57	4:2	040	0.4560	23-23	0.120	0.093
43	20.82	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100	0.4658	23-35; 245-3; 246-24	0.074	0.056
45	21.16	4:1	063		235-4	-	-
46	21.32	4:1 5:3	074 094 061	0.4726	245-4; 235-26; 2345	0.173	0.133
47	21.46	4:1	070	0.4757	25-34	0.227	0.175
48	21.62	4:1 5:3	066 076 098 080 093 095 102 088	0.4793	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.826	0.633
49	21.86	4:1 5:3	055 091 121	0.4846	234-3; 236-24; 246-35	0.135	0.094
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.41	5:3 6:4	084 092 155	0.4968	236-23; 235-25; 246-246	0.527	0.363
52	22.52	5:3	089		234-26	-	-
53	22.66	5:2	090 101	0.5023	235-24; 245-25	0.098	0.067
54	22.86	5:2	079 099 113	0.5068	34-35; 245-24; 236-35	0.094	0.065
55	23.12	5:2 6:4	119 150	0.5125	246-34; 236-246	0.021	0.014
56	23.23	5:2	078 083 112 108	0.5150	345-3; 235-23; 2356-3; 2346-3	0.113	0.078
57	23.45	5:2 6:4	097 152 086	0.5198	245-23; 2356-26; 2345-2	0.155	0.106
58	23.60	5:2	081 087 117 125 115 145	0.5232	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.136	0.094
59	23.76	5:2	116 085 111	0.5267	23456; 234-24; 235-35	0.053	0.037
60	23.89	6:4	120 136		245-35; 236-236	-	-
61	24.01	5:2	077 110 148	0.5323	34-34; 236-34; 235-246	0.302	0.208
62	24.31	6:3	154	0.5389	245-246	0.243	0.151
63	24.39	5:2	082	0.5407	234-23	0.014	0.010
64	24.67	6:3	151	0.5469	2356-25	0.045	0.028
65	24.82	5:1 6:3	124 135	0.5502	345-25; 235-236	0.015	0.010
66	24.90	6:3	144	0.5520	2346-25	0.060	0.037
67	24.93	5:1 6:3	107 109 147	0.5526	234-35; 235-34; 2356-24	0.088	0.058
68	24.98	5:1	123		345-24	-	-
69	25.14	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.99	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161	0.5786	234-34; 234-236; 2346-35	0.063	0.040
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.82	7:4	179		2356-236	-	-
79	27.03	6:2	137		2345-24	-	-
80	27.17	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 148 ng/L

Total Nanomoles = 0.657

Average Molecular Weight = 224.7

Number of Calibrated Peaks Found = 56

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

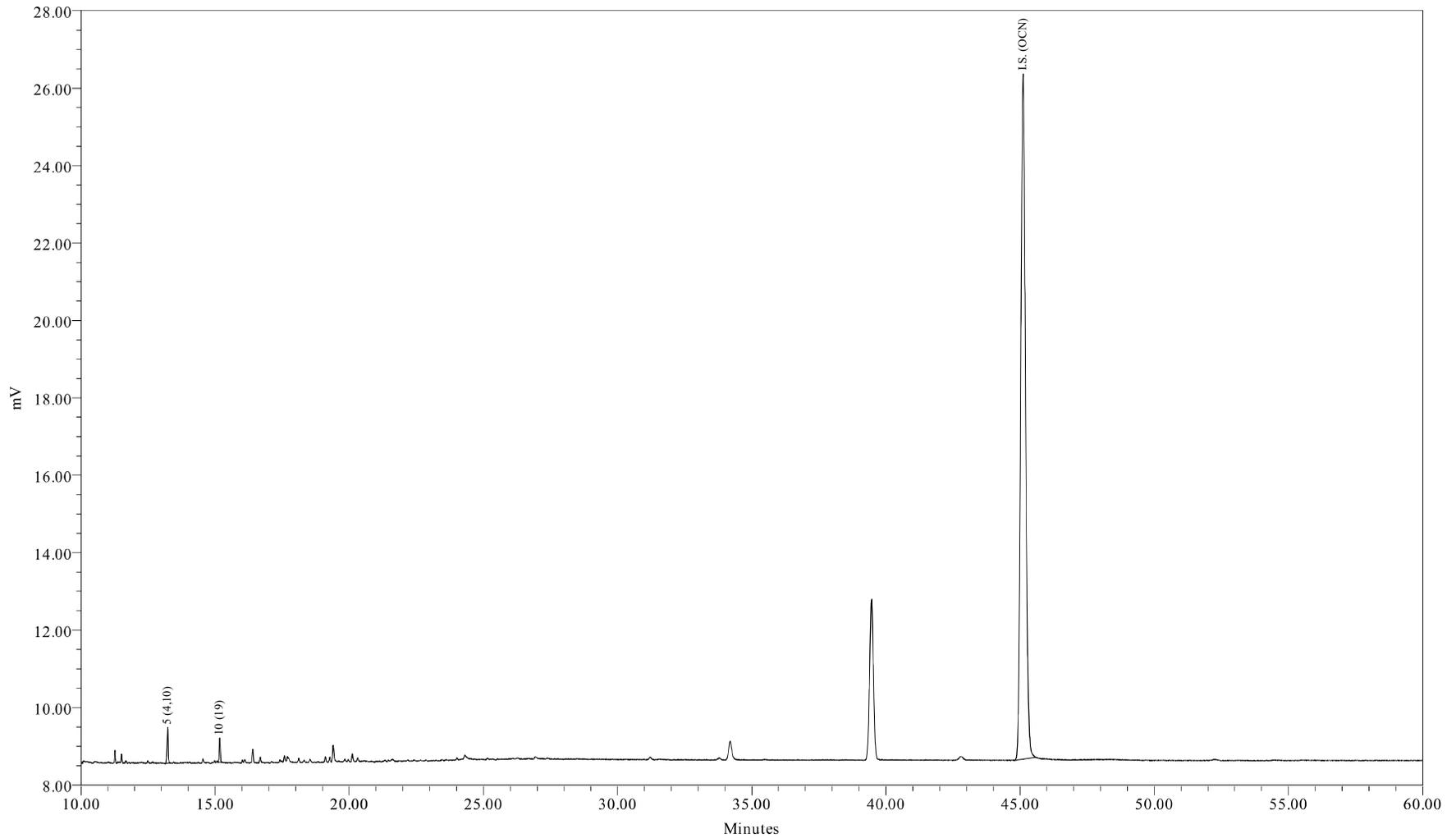
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



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Sample Name: AM14597DL1  
Sample ID: WFF-THIS-090824-CT001  
Date Acquired: 8/28/2009 2:26:26 AM EDT

Sample Amount (L) : 1.0400  
Dilution: 25  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-6

Sample Name: AM14597DL1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 02:26:26  
 Lab Sample ID: AM14597DL1  
 LRF ID: 09080314-04DL1  
 Lab File ID: GC24-154-6

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 72.1 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	84.99	86.73
Tri	15.01	13.27
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.13

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.13

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 02:26:26  
 Lab Sample ID: AM14597DL1  
 LRF ID: 09080314-04DL1  
 Lab File ID: GC24-154-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				2.64	11.0	U
3	12.52	188.7				33.1	5000	U
4	12.62	188.7				1.77	6.40	U
5	13.23	223.1	2742	61.3	275	0.670	3.11	
6	14.06	223.1				0.360	1.10	U
7	14.37	223.1				0.791	1.74	U
8	14.55	223.1				2.71	12.8	U
9	15.10	223.1				1.47	125	U
10	15.17	257.5	1595	10.8	42.0	0.302	0.512	
11	15.64	257.5				0.992	125	U
12	15.71	223.1				1.53	125	U
13	15.91	223.1				0.279	0.488	U
14	16.03	249.0				0.640	3.38	U
15	16.11	257.5				0.716	3.38	U
16	16.41	257.5				0.187	0.237	U
17	16.66	257.5				0.829	3.56	U
19	17.11	267.9				0.641	125	U
20	17.29	257.5				0.0540	0.0970	U
21	17.42	257.5				0.303	0.658	U
22	17.50	257.5				0.213	0.292	U
23	17.69	257.5				2.44	3.77	U
24	17.75	257.5				1.05	4.82	U
25	18.09	259.5				0.526	3.63	U
26	18.32	258.7				0.598	2.65	U
27	18.55	292.0				0.183	0.813	U
28	18.69	257.5				1.88	125	U
29	18.82	292.0				0.634	0.634	U
30	18.95	257.5				0.601	125	U
31	19.11	292.0				1.02	4.36	U
32	19.28	292.0				0.489	2.10	U
33	19.39	292.0				0.328	0.914	U
34	19.46	292.0				0.289	0.914	U
35	19.59	292.0				1.02	125	U
36	19.68	257.5				0.722	125	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				0.802	3.93	U
38	19.97	272.4				0.573	2.38	U
39	20.32	292.0				0.607	3.75	U
41	20.48	326.4				0.573	125	U
42	20.58	292.0				0.484	0.859	U
43	20.83	298.9				0.762	125	U
44	21.01	298.9				0.113	0.201	U
45	21.16	292.0				0.150	0.192	U
46	21.33	292.0				0.410	1.74	U
47	21.46	292.0				0.818	3.11	U
48	21.57	293.5				1.22	6.58	U
49	21.87	324.7				0.188	0.466	U
50	22.18	292.0				1.80	3.20	U
51	22.41	326.4				0.444	1.64	U
52	22.52	326.4				0.192	0.192	U
53	22.67	326.4				0.345	1.64	U
54	22.86	326.4				0.506	0.676	U
55	23.14	326.4				0.0322	0.0512	U
56	23.24	326.4				0.324	0.324	U
57	23.45	326.4				0.217	0.512	U
58	23.62	326.4				0.421	1.06	U
59	23.77	326.4				0.242	0.640	U
60	23.89	360.9				0.386	0.685	U
61	24.02	326.4				0.334	1.95	U
62	24.30	360.9				0.565	125	U
63	24.39	326.4				0.100	0.402	U
64	24.68	360.9				0.259	1.55	U
65	24.82	350.5				0.0746	0.265	U
66	24.89	360.9				0.270	0.548	U
67	24.95	336.8				0.174	0.237	U
68	25.04	326.4				0.626	125	U
69	25.13	337.5				0.469	3.65	U
70	25.24	360.9				0.414	125	U
71	25.52	347.8				0.174	0.184	U
72	25.72	336.8				0.0319	0.0532	U
73	25.99	360.9				0.160	0.356	U
74	26.10	347.8				0.360	1.24	U
75	26.26	360.9				0.545	2.69	U
76	26.36	360.9				0.535	125	U
77	26.76	360.9				0.319	1.55	U
78	26.82	395.3				0.235	1.33	U
79	27.03	360.9				0.251	0.251	U
80	27.17	360.9				0.0754	0.237	U
82	27.39	360.9				0.539	2.47	U
83	27.56	360.9				0.225	0.228	U
84	27.75	360.9				0.0155	0.0236	U
85	28.08	395.3				0.339	1.00	U
87	28.38	395.3				0.0782	0.366	U
88	28.51	395.3				0.509	3.29	U
89	28.63	360.9				0.0997	0.183	U
90	28.81	395.3				0.339	1.55	U
91	29.06	360.9				0.174	0.174	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.112	0.429	U
93	29.73	394.3				0.512	2.92	U
94	29.99	394.3				0.468	1.55	U
95	30.27	382.2				0.436	0.722	U
96	30.53	429.8				0.0471	0.0605	U
98	30.69	395.3				0.0667	0.0695	U
99	31.05	429.8				0.431	0.431	U
100	31.27	395.3				0.633	0.633	U
101	31.53	429.8				1.09	1.09	U
102	31.73	395.3				0.751	5.57	U
103	31.97	395.3				0.320	0.384	U
104	32.26	395.3				0.187	0.219	U
105	32.59	429.8				0.230	0.393	U
106	33.70	395.3				0.269	1.17	U
107	33.96	395.3				0.106	0.384	U
108	34.77	429.8				0.162	0.219	U
109	34.99	429.8				0.578	3.84	U
110	35.52	429.8				0.922	3.93	U
111	36.64	395.3				0.115	0.115	U
112	38.10	429.8				0.184	0.505	U
113	38.59	464.2				0.219	0.452	U
114	39.49	464.2				0.0770	0.170	U
115	40.84	429.8				0.484	1.64	U
116	41.67	429.8				0.419	0.419	U
117	46.57	464.2				0.192	0.621	U
118	52.30	498.6				0.0629	0.0629	U

Total Concentration = 72.1 ng/L 45.5      161      J

Total Nanomoles = 0.317

Average Molecular Weight = 227.7

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 45.12 minutes

Internal Standard Peak Area = 221774.0

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 02:26:26  
 Lab Sample ID: AM14597DL1  
 LRF ID: 09080314-04DL1  
 Lab File ID: GC24-154-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001		2	-	-
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2932	2-2; 26	84.986	86.725
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3362	26-2	15.014	13.275
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013		34; 3-4	-	-
14	16.03	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.41	3:2	024 027		236; 26-3	-	-
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.69	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.55	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046		23-26	-	-
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.87	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.18	4:1	056 060		23-34; 234-4	-	-
51	22.41	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.52	5:3	089		234-26	-	-
53	22.67	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.14	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.24	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.45	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.62	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.89	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.30	6:3	154		245-246	-	-
63	24.39	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.82	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.89	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.13	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.99	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.82	7:4	179		2356-236	-	-
79	27.03	6:2	137		2345-24	-	-
80	27.17	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.39	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 72.1 ng/L

Total Nanomoles = 0.317

Average Molecular Weight = 227.7

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

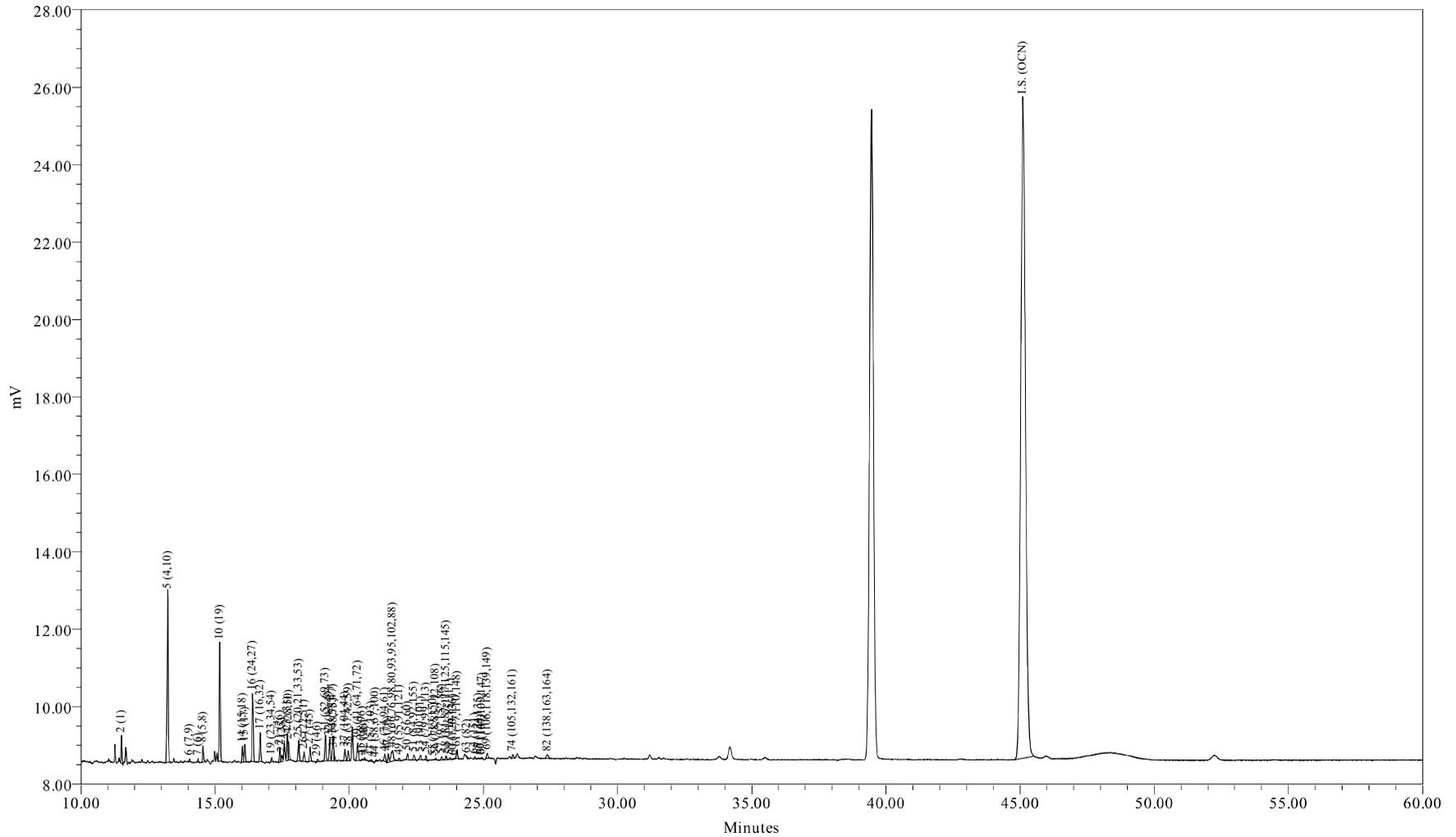
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09080314
ELAP ID No:	11078	LRF ID:	09080314-05
Matrix:	Water	Client ID:	WFF-TIDA-090824-CT001
Sample Wt(Dry)/Vol:	1060 mL	Lab Sample ID:	AM14598
% Moisture:	100	Lab File ID:	GC24-154-7
Extraction:	Solid Phase Extraction - 1L	Date Received:	08/24/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	08/28/2009 03:31
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm		

OCN (I.S.) Peak Area: 210438

Percent Recovery (50 - 150 %): 117

SAMPLE TOTAL PCB CONCENTRATION: 131 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM14598  
Sample ID: WFF-TIDA-090824-CT001  
Date Acquired: 8/28/2009 3:31:51 AM EDT

Sample Amount (L) : 1.0600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-7

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 03:31:51  
 Lab Sample ID: AM14598  
 LRF ID: 09080314-05  
 Lab File ID: GC24-154-7

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 131 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	18.83	22.74
Di	48.36	49.37
Tri	23.21	20.53
Tetra	7.73	6.06
Penta	1.75	1.22
Hexa	0.12	0.08
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	24.6053	89.2	90.3
A1242	23+24/31+28	2.6139	9.48	9.59
A1254SED	61/100	0.3522	1.28	
A1254BIO	69+75+82/149+153+138	0.0441		0.162
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.78

Meta + Para Cl / biphenyl Residue = 0.35

Total Cl / biphenyl Residue = 2.14

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 03:31:51  
 Lab Sample ID: AM14598  
 LRF ID: 09080314-05  
 Lab File ID: GC24-154-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7	1417	24.6	130	0.529	2.19	
3	12.52	188.7				6.63	1000	U
4	12.62	188.7				0.355	1.28	U
5	13.23	223.1	2633	60.9	273	0.670	3.11	
6	14.05	223.1	191	0.156	0.700	0.0721	0.219	J
7	14.36	223.1	191	0.366	1.64	0.158	0.347	
8	14.55	223.1	1065	1.36	6.08	0.542	2.56	J
9	15.10	223.1				0.294	25.0	U
10	15.17	257.5	1645	11.6	44.9	0.302	0.512	
11	15.64	257.5				0.198	25.0	U
12	15.71	223.1				0.306	25.0	U
13	15.91	223.1				0.0559	0.0975	U
14	16.02	249.0	1093	1.60	6.45	0.128	0.676	
15	16.11	257.5	1264	3.12	12.1	0.143	0.676	
16	16.40	257.5	4799	4.11	15.9	0.0374	0.0475	
17	16.69	257.5	2119	3.11	12.1	0.166	0.713	
19	17.11	267.9	239	0.300	1.12	0.128	25.0	J
20	17.29	257.5				0.0108	0.0194	U
21	17.42	257.5	966	1.12	4.35	0.0606	0.132	
22	17.49	257.5	520	0.452	1.76	0.0426	0.0585	
23	17.70	257.5	2044	1.83	7.10	0.487	0.753	
24	17.74	257.5	1216	0.786	3.05	0.211	0.964	J
25	18.12	259.5	1590	1.59	6.14	0.105	0.726	
26	18.32	258.7	751	0.842	3.25	0.120	0.530	
27	18.54	292.0	1083	1.11	3.80	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.81	292.0	208	0.255	0.872	0.127	0.127	
30	18.95	257.5				0.120	25.0	U
31	19.11	292.0	2016	2.66	9.11	0.204	0.872	
32	19.27	292.0	1737	1.13	3.86	0.0978	0.420	
33	19.39	292.0	2011	0.924	3.16	0.0656	0.183	B
34	19.43	292.0	463	0.309	1.06	0.0579	0.183	
35	19.59	292.0				0.205	25.0	U
36	19.68	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0	855	0.352	1.20	0.160	0.786	J
38	19.97	272.4	838	0.882	3.24	0.115	0.475	J
39	20.31	292.0	1608	1.00	3.44	0.121	0.749	J
41	20.48	326.4	68			0.115	25.0	U
42	20.57	292.0	133	0.113	0.386	0.0968	0.172	J
43	20.81	298.9	158			0.152	25.0	U
44	20.99	298.9	98	0.0547	0.183	0.0225	0.0402	J
45	21.16	292.0				0.0299	0.0384	U
46	21.33	292.0	636	0.215	0.737	0.0821	0.347	J
47	21.45	292.0	743	0.270	0.926	0.164	0.621	J
48	21.62	293.5	1725	1.19	4.04	0.243	1.32	J
49	21.86	324.7	193	0.155	0.478	0.0376	0.0932	J
50	22.17	292.0	484			0.359	0.640	U
51	22.41	326.4	540	0.796	2.44	0.0888	0.329	J
52	22.52	326.4				0.0384	0.0384	U
53	22.65	326.4	385	0.201	0.615	0.0691	0.329	J
54	22.86	326.4	313	0.127	0.388	0.101	0.135	J
55	23.14	326.4	34	0.0107	0.0327	0.00644	0.0102	J
56	23.22	326.4	148	0.127	0.388	0.0647	0.0647	J
57	23.44	326.4	286	0.131	0.400	0.0435	0.102	J
58	23.61	326.4	336	0.166	0.509	0.0841	0.212	J
59	23.76	326.4	114			0.0484	0.128	U
60	23.87	360.9	33			0.0772	0.137	U
61	24.02	326.4	654	0.352	1.08	0.0668	0.389	J
62	24.30	360.9				0.113	25.0	U
63	24.38	326.4	145	0.0774	0.237	0.0201	0.0804	J
64	24.67	360.9	187	0.0672	0.186	0.0518	0.311	J
65	24.81	350.5	53	0.0166	0.0475	0.0149	0.0530	J
66	24.91	360.9	67			0.0541	0.110	U
67	24.94	336.8	99	0.0612	0.182	0.0348	0.0475	J
68	25.04	326.4				0.125	25.0	U
69	25.15	337.5	424			0.0938	0.731	U
70	25.24	360.9				0.0829	25.0	U
71	25.52	347.8				0.0348	0.0369	U
72	25.72	336.8				0.00638	0.0106	U
73	25.99	360.9				0.0320	0.0713	U
74	26.10	347.8	302	0.0995	0.286	0.0721	0.248	J
75	26.26	360.9				0.109	0.538	U
76	26.36	360.9				0.107	25.0	U
77	26.76	360.9				0.0637	0.311	U
78	26.82	395.3				0.0470	0.267	U
79	27.03	360.9				0.0501	0.0501	U
80	27.17	360.9				0.0151	0.0475	U
82	27.39	360.9	450			0.108	0.493	U
83	27.56	360.9				0.0450	0.0457	U
84	27.75	360.9				0.00310	0.00473	U
85	28.08	395.3				0.0677	0.201	U
87	28.38	395.3				0.0156	0.0731	U
88	28.51	395.3				0.102	0.658	U
89	28.63	360.9				0.0199	0.0366	U
90	28.81	395.3				0.0679	0.311	U
91	29.06	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.0225	0.0859	U
93	29.73	394.3				0.102	0.585	U
94	29.99	394.3				0.0936	0.311	U
95	30.27	382.2				0.0871	0.144	U
96	30.53	429.8				0.00942	0.0121	U
98	30.69	395.3				0.0133	0.0139	U
99	31.05	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.53	429.8				0.217	0.217	U
102	31.73	395.3				0.150	1.11	U
103	31.97	395.3				0.0640	0.0768	U
104	32.26	395.3				0.0374	0.0438	U
105	32.59	429.8				0.0460	0.0786	U
106	33.70	395.3				0.0538	0.234	U
107	33.96	395.3				0.0213	0.0768	U
108	34.77	429.8				0.0324	0.0438	U
109	34.99	429.8				0.116	0.768	U
110	35.52	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 131 ng/L

9.86

35.1

Total Nanomoles = 0.573

Average Molecular Weight = 227.9

Number of Calibrated Peaks Found = 53

Internal Standard Retention Time = 45.10 minutes

Internal Standard Peak Area = 210438.0

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 03:31:51  
 Lab Sample ID: AM14598  
 LRF ID: 09080314-05  
 Lab File ID: GC24-154-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2552	2	18.826	22.736
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2933	2-2; 26	46.621	47.622
6	14.05	2:1	007 009	0.3115	24; 25	0.120	0.122
7	14.36	2:1	006	0.3184	2-3	0.280	0.286
8	14.55	2:1	005 008	0.3226	23; 2-4	1.038	1.060
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3364	26-2	8.853	7.835
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018	0.3552	4-4; 25-2	1.228	1.124
15	16.11	3:2	017	0.3572	24-2	2.387	2.112
16	16.40	3:2	024 027	0.3636	236; 26-3	3.142	2.781
17	16.69	3:2	016 032	0.3701	23-2; 26-4	2.379	2.106
19	17.11	3:1 4:4	023 034 054	0.3794	235; 35-2; 26-26	0.230	0.195
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026	0.3863	25-3	0.857	0.759
22	17.49	3:1	025	0.3878	24-3	0.346	0.306
23	17.70	3:1	031	0.3925	25-4	1.398	1.238
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	0.602	0.532
25	18.12	3:1 4:3	020 021 033 053	0.4018	23-3; 234; 34-2; 25-26	1.219	1.070
26	18.32	3:1 4:3	022 051	0.4062	23-4; 24-26	0.644	0.568
27	18.54	4:3	045	0.4111	236-2	0.849	0.663
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4171	23-26	0.195	0.152
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4237	25-25; 246-3; 26-35	2.035	1.588
32	19.27	4:2	043 049	0.4273	235-2; 24-25	0.861	0.672
33	19.39	4:2	038 047	0.4299	345; 24-24	0.707	0.552
34	19.43	4:2	048 075	0.4308	245-2; 246-4	0.236	0.184
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044	0.4399	246-26; 23-25	0.269	0.210
38	19.97	3:0 4:2	037 042 059	0.4428	34-4; 23-24; 236-3	0.675	0.564
39	20.31	4:2	041 064 071 072	0.4503	234-2; 236-4; 26-34; 25-35	0.768	0.600

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096		24-35; 236-26	-	-
42	20.57	4:2	040	0.4561	23-23	0.086	0.067
43	20.81	4:1 5:3	057 103		235-3; 246-25	-	-
44	20.99	4:1 5:3	058 067 100	0.4654	23-35; 245-3; 246-24	0.042	0.032
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061	0.4729	245-4; 235-26; 2345	0.165	0.128
47	21.45	4:1	070	0.4756	25-34	0.207	0.161
48	21.62	4:1 5:3	066 076 098 080 093 095 102 088	0.4794	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.908	0.705
49	21.86	4:1 5:3	055 091 121	0.4847	234-3; 236-24; 246-35	0.119	0.083
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.41	5:3 6:4	084 092 155	0.4969	236-23; 235-25; 246-246	0.609	0.425
52	22.52	5:3	089		234-26	-	-
53	22.65	5:2	090 101	0.5022	235-24; 245-25	0.153	0.107
54	22.86	5:2	079 099 113	0.5069	34-35; 245-24; 236-35	0.097	0.068
55	23.14	5:2 6:4	119 150	0.5131	246-34; 236-246	0.008	0.006
56	23.22	5:2	078 083 112 108	0.5149	345-3; 235-23; 2356-3; 2346-3	0.097	0.068
57	23.44	5:2 6:4	097 152 086	0.5197	245-23; 2356-26; 2345-2	0.100	0.070
58	23.61	5:2	081 087 117 125 115 145	0.5235	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.127	0.089
59	23.76	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.87	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148	0.5326	34-34; 236-34; 235-246	0.269	0.188
62	24.30	6:3	154		245-246	-	-
63	24.38	5:2	082	0.5406	234-23	0.059	0.041
64	24.67	6:3	151	0.5470	2356-25	0.051	0.032
65	24.81	5:1 6:3	124 135	0.5501	345-25; 235-236	0.013	0.008
66	24.91	6:3	144		2346-25	-	-
67	24.94	5:1 6:3	107 109 147	0.5530	234-35; 235-34; 2356-24	0.047	0.032
68	25.04	5:1	123		345-24	-	-
69	25.15	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.99	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161	0.5787	234-34; 234-236; 2346-35	0.076	0.050
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.82	7:4	179		2356-236	-	-
79	27.03	6:2	137		2345-24	-	-
80	27.17	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.39	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 131 ng/L

Total Nanomoles = 0.573

Average Molecular Weight = 227.9

Number of Calibrated Peaks Found = 53

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

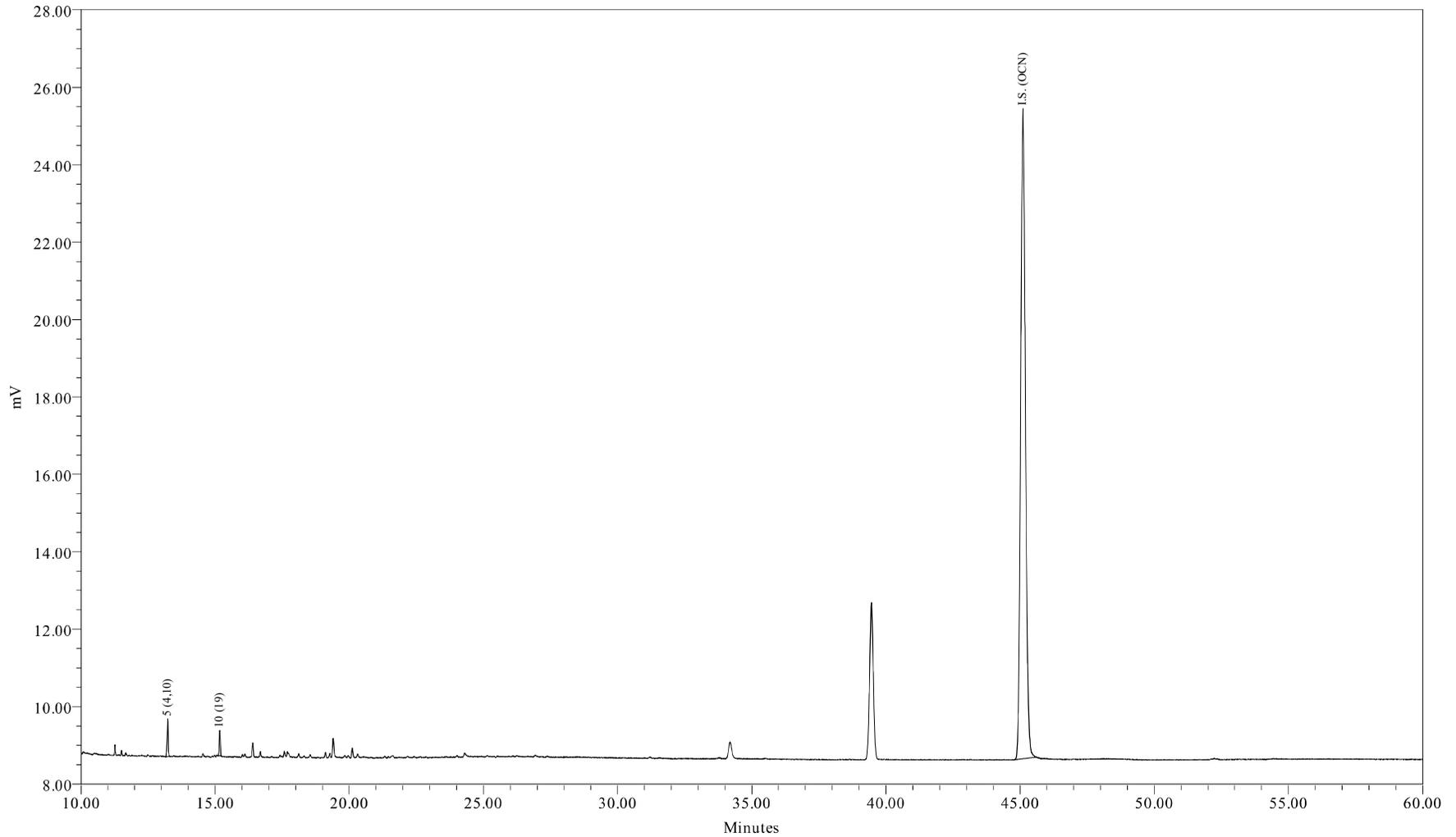
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



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Sample Name: AM14598DL1  
Sample ID: WFF-TIDA-090824-CT001  
Date Acquired: 8/28/2009 4:37:18 AM EDT

Sample Amount (L) : 1.0600  
Dilution: 25  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-8

Sample Name: AM14598DL1

1 of 1

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 04:37:18  
 Lab Sample ID: AM14598DL1  
 LRF ID: 09080314-05DL1  
 Lab File ID: GC24-154-8

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 72.5 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	84.04	85.87
Tri	15.96	14.13
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.14

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.14

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 04:37:18  
 Lab Sample ID: AM14598DL1  
 LRF ID: 09080314-05DL1  
 Lab File ID: GC24-154-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				2.64	11.0	U
3	12.52	188.7				33.1	5000	U
4	12.62	188.7				1.77	6.40	U
5	13.23	223.1	2633	60.9	273	0.670	3.11	
6	14.06	223.1				0.360	1.10	U
7	14.37	223.1				0.791	1.74	U
8	14.55	223.1				2.71	12.8	U
9	15.10	223.1				1.47	125	U
10	15.17	257.5	1645	11.6	44.9	0.302	0.512	
11	15.64	257.5				0.992	125	U
12	15.71	223.1				1.53	125	U
13	15.91	223.1				0.279	0.488	U
14	16.03	249.0				0.640	3.38	U
15	16.11	257.5				0.716	3.38	U
16	16.41	257.5				0.187	0.237	U
17	16.66	257.5				0.829	3.56	U
19	17.11	267.9				0.641	125	U
20	17.29	257.5				0.0540	0.0970	U
21	17.42	257.5				0.303	0.658	U
22	17.50	257.5				0.213	0.292	U
23	17.69	257.5				2.44	3.77	U
24	17.75	257.5				1.05	4.82	U
25	18.09	259.5				0.526	3.63	U
26	18.32	258.7				0.598	2.65	U
27	18.55	292.0				0.183	0.813	U
28	18.69	257.5				1.88	125	U
29	18.82	292.0				0.634	0.634	U
30	18.95	257.5				0.601	125	U
31	19.11	292.0				1.02	4.36	U
32	19.28	292.0				0.489	2.10	U
33	19.39	292.0				0.328	0.914	U
34	19.46	292.0				0.289	0.914	U
35	19.59	292.0				1.02	125	U
36	19.68	257.5				0.722	125	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				0.802	3.93	U
38	19.97	272.4				0.573	2.38	U
39	20.32	292.0				0.607	3.75	U
41	20.48	326.4				0.573	125	U
42	20.58	292.0				0.484	0.859	U
43	20.83	298.9				0.762	125	U
44	21.01	298.9				0.113	0.201	U
45	21.16	292.0				0.150	0.192	U
46	21.33	292.0				0.410	1.74	U
47	21.46	292.0				0.818	3.11	U
48	21.57	293.5				1.22	6.58	U
49	21.87	324.7				0.188	0.466	U
50	22.18	292.0				1.80	3.20	U
51	22.41	326.4				0.444	1.64	U
52	22.52	326.4				0.192	0.192	U
53	22.67	326.4				0.345	1.64	U
54	22.86	326.4				0.506	0.676	U
55	23.14	326.4				0.0322	0.0512	U
56	23.24	326.4				0.324	0.324	U
57	23.45	326.4				0.217	0.512	U
58	23.62	326.4				0.421	1.06	U
59	23.77	326.4				0.242	0.640	U
60	23.89	360.9				0.386	0.685	U
61	24.02	326.4				0.334	1.95	U
62	24.30	360.9				0.565	125	U
63	24.39	326.4				0.100	0.402	U
64	24.68	360.9				0.259	1.55	U
65	24.82	350.5				0.0746	0.265	U
66	24.89	360.9				0.270	0.548	U
67	24.95	336.8				0.174	0.237	U
68	25.04	326.4				0.626	125	U
69	25.13	337.5				0.469	3.65	U
70	25.24	360.9				0.414	125	U
71	25.52	347.8				0.174	0.184	U
72	25.72	336.8				0.0319	0.0532	U
73	25.99	360.9				0.160	0.356	U
74	26.10	347.8				0.360	1.24	U
75	26.26	360.9				0.545	2.69	U
76	26.36	360.9				0.535	125	U
77	26.76	360.9				0.319	1.55	U
78	26.82	395.3				0.235	1.33	U
79	27.03	360.9				0.251	0.251	U
80	27.17	360.9				0.0754	0.237	U
82	27.39	360.9				0.539	2.47	U
83	27.56	360.9				0.225	0.228	U
84	27.75	360.9				0.0155	0.0236	U
85	28.08	395.3				0.339	1.00	U
87	28.38	395.3				0.0782	0.366	U
88	28.51	395.3				0.509	3.29	U
89	28.63	360.9				0.0997	0.183	U
90	28.81	395.3				0.339	1.55	U
91	29.06	360.9				0.174	0.174	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.112	0.429	U
93	29.73	394.3				0.512	2.92	U
94	29.99	394.3				0.468	1.55	U
95	30.27	382.2				0.436	0.722	U
96	30.53	429.8				0.0471	0.0605	U
98	30.69	395.3				0.0667	0.0695	U
99	31.05	429.8				0.431	0.431	U
100	31.27	395.3				0.633	0.633	U
101	31.53	429.8				1.09	1.09	U
102	31.73	395.3				0.751	5.57	U
103	31.97	395.3				0.320	0.384	U
104	32.26	395.3				0.187	0.219	U
105	32.59	429.8				0.230	0.393	U
106	33.70	395.3				0.269	1.17	U
107	33.96	395.3				0.106	0.384	U
108	34.77	429.8				0.162	0.219	U
109	34.99	429.8				0.578	3.84	U
110	35.52	429.8				0.922	3.93	U
111	36.64	395.3				0.115	0.115	U
112	38.10	429.8				0.184	0.505	U
113	38.59	464.2				0.219	0.452	U
114	39.49	464.2				0.0770	0.170	U
115	40.84	429.8				0.484	1.64	U
116	41.67	429.8				0.419	0.419	U
117	46.57	464.2				0.192	0.621	U
118	52.30	498.6				0.0629	0.0629	U

Total Concentration = 72.5 ng/L 45.5      161      J

Total Nanomoles = 0.318

Average Molecular Weight = 228.0

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 210032.4

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 04:37:18  
 Lab Sample ID: AM14598DL1  
 LRF ID: 09080314-05DL1  
 Lab File ID: GC24-154-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001		2	-	-
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2933	2-2; 26	84.041	85.871
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3363	26-2	15.959	14.129
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013		34; 3-4	-	-
14	16.03	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.41	3:2	024 027		236; 26-3	-	-
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.69	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.55	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046		23-26	-	-
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.87	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.18	4:1	056 060		23-34; 234-4	-	-
51	22.41	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.52	5:3	089		234-26	-	-
53	22.67	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.14	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.24	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.45	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.62	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.89	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.30	6:3	154		245-246	-	-
63	24.39	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.82	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.89	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.13	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.99	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.82	7:4	179		2356-236	-	-
79	27.03	6:2	137		2345-24	-	-
80	27.17	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.39	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 72.5 ng/L

Total Nanomoles = 0.318

Average Molecular Weight = 228.0

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

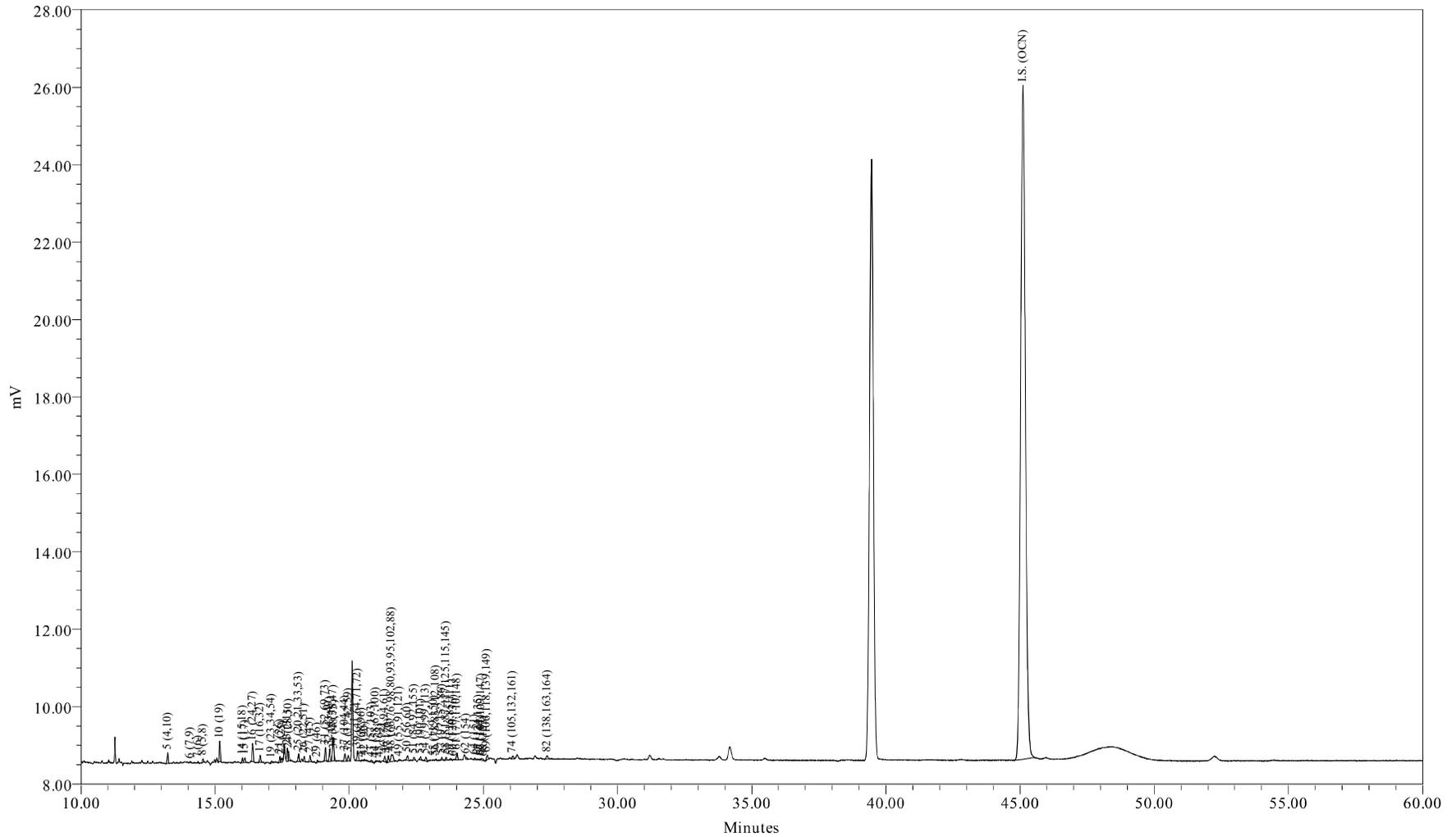
Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09080314</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>09080314-06</u>
Matrix:	<u>Water</u>	Client ID:	<u>WFF-WAFA-090824-CT001</u>
Sample Wt(Dry)/Vol:	<u>1080 mL</u>	Lab Sample ID:	<u>AM14599</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-154-9</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u>08/24/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>08/24/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>08/28/2009 05:42</u>
Analytical SOP Reference:	<u>SOP NE207_03</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm</u>		

OCN (I.S.) Peak Area: 217561

Percent Recovery (50 - 150 %): 121

SAMPLE TOTAL PCB CONCENTRATION: 17.3 ng/L J

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM14599  
Sample ID: WFF-WAFA-090824-CT001  
Date Acquired: 8/28/2009 5:42:43 AM EDT

Sample Amount (L) : 1.0800  
Dilution: 5  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-9

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 05:42:43  
 Lab Sample ID: AM14599  
 LRF ID: 09080314-06  
 Lab File ID: GC24-154-9

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 17.3 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	18.68	22.11
Tri	42.40	43.51
Tetra	29.20	26.57
Penta	8.35	6.79
Hexa	1.36	1.02
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001		0	0
A1242	23+24/31+28	1.0502	78.7	99.6
A1254SED	61/100	0.2839	21.3	
A1254BIO	69+75+82/149+153+138	0.0040		0.382
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.92

Meta + Para Cl / biphenyl Residue = 1.29

Total Cl / biphenyl Residue = 3.21

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 05:42:43  
 Lab Sample ID: AM14599  
 LRF ID: 09080314-06  
 Lab File ID: GC24-154-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				0.529	2.19	U
3	12.52	188.7				6.63	1000	U
4	12.62	188.7				0.355	1.28	U
5	13.23	223.1	722	3.15	14.1	0.134	0.621	U
6	14.07	223.1	54			0.0721	0.219	U
7	14.37	223.1	90			0.158	0.347	U
8	14.55	223.1	201			0.542	2.56	U
9	15.10	223.1				0.294	25.0	U
10	15.17	257.5	1328	1.77	6.85	0.0604	0.102	U
11	15.64	257.5				0.198	25.0	U
12	15.71	223.1				0.306	25.0	U
13	15.91	223.1				0.0559	0.0975	U
14	16.02	249.0	350	0.346	1.39	0.128	0.676	J
15	16.11	257.5	339	0.666	2.59	0.143	0.676	J
16	16.40	257.5	1203	0.971	3.77	0.0374	0.0475	U
17	16.68	257.5	567	0.718	2.79	0.166	0.713	U
19	17.10	267.9	169	0.201	0.752	0.128	25.0	J
20	17.29	257.5				0.0108	0.0194	U
21	17.42	257.5	392	0.432	1.68	0.0606	0.132	U
22	17.49	257.5	325	0.267	1.04	0.0426	0.0585	U
23	17.69	257.5	1010	0.788	3.06	0.487	0.753	U
24	17.74	257.5	622	0.262	1.02	0.211	0.964	J
25	18.12	259.5	621	0.492	1.90	0.105	0.726	J
26	18.32	258.7	351	0.362	1.40	0.120	0.530	J
27	18.54	292.0	504	0.482	1.65	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.81	292.0	132	0.154	0.527	0.127	0.127	U
30	18.95	257.5				0.120	25.0	U
31	19.11	292.0	972	1.12	3.85	0.204	0.872	U
32	19.27	292.0	943	0.535	1.83	0.0978	0.420	U
33	19.39	292.0	1959	0.849	2.91	0.0656	0.183	B
34	19.43	292.0	279	0.170	0.583	0.0579	0.183	J
35	19.59	292.0				0.205	25.0	U
36	19.68	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0	612			0.160	0.786	U
38	19.96	272.4	482	0.466	1.71	0.115	0.475	J
39	20.31	292.0	911	0.490	1.68	0.121	0.749	J
41	20.47	326.4	48			0.115	25.0	U
42	20.57	292.0	113			0.0968	0.172	U
43	20.84	298.9	229	0.184	0.614	0.152	25.0	J
44	20.99	298.9	128	0.0694	0.232	0.0225	0.0402	
45	21.14	292.0	93	0.0416	0.143	0.0299	0.0384	
46	21.33	292.0	504	0.142	0.486	0.0821	0.347	J
47	21.46	292.0	586			0.164	0.621	U
48	21.57	293.5	1106	0.592	2.02	0.243	1.32	J
49	21.85	324.7	88	0.0695	0.214	0.0376	0.0932	J
50	22.17	292.0	401			0.359	0.640	U
51	22.41	326.4	236	0.306	0.938	0.0888	0.329	J
52	22.52	326.4				0.0384	0.0384	U
53	22.66	326.4	228	0.0825	0.253	0.0691	0.329	J
54	22.85	326.4	325	0.125	0.383	0.101	0.135	J
55	23.16	326.4	10			0.00644	0.0102	U
56	23.23	326.4	95	0.0768	0.235	0.0647	0.0647	
57	23.45	326.4	259	0.109	0.335	0.0435	0.102	
58	23.61	326.4	263	0.112	0.345	0.0841	0.212	J
59	23.77	326.4	193	0.0797	0.244	0.0484	0.128	J
60	23.88	360.9	45			0.0772	0.137	U
61	24.01	326.4	583	0.284	0.870	0.0668	0.389	J
62	24.34	360.9	155			0.113	25.0	U
63	24.39	326.4				0.0201	0.0804	U
64	24.67	360.9	185	0.0614	0.170	0.0518	0.311	J
65	24.80	350.5	63	0.0195	0.0556	0.0149	0.0530	J
66	24.91	360.9	104	0.0742	0.206	0.0541	0.110	J
67	24.92	336.8	217	0.134	0.399	0.0348	0.0475	
68	25.01	326.4	25			0.125	25.0	U
69	25.14	337.5	424			0.0938	0.731	U
70	25.24	360.9				0.0829	25.0	U
71	25.52	347.8				0.0348	0.0369	U
72	25.72	336.8				0.00638	0.0106	U
73	25.99	360.9				0.0320	0.0713	U
74	26.09	347.8	258	0.0757	0.218	0.0721	0.248	J
75	26.26	360.9				0.109	0.538	U
76	26.36	360.9				0.107	25.0	U
77	26.76	360.9				0.0637	0.311	U
78	26.82	395.3				0.0470	0.267	U
79	27.03	360.9				0.0501	0.0501	U
80	27.17	360.9				0.0151	0.0475	U
82	27.38	360.9	348			0.108	0.493	U
83	27.56	360.9				0.0450	0.0457	U
84	27.75	360.9				0.00310	0.00473	U
85	28.08	395.3				0.0677	0.201	U
87	28.38	395.3				0.0156	0.0731	U
88	28.51	395.3				0.102	0.658	U
89	28.63	360.9				0.0199	0.0366	U
90	28.81	395.3				0.0679	0.311	U
91	29.06	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.0225	0.0859	U
93	29.73	394.3				0.102	0.585	U
94	29.99	394.3				0.0936	0.311	U
95	30.27	382.2				0.0871	0.144	U
96	30.53	429.8				0.00942	0.0121	U
98	30.69	395.3				0.0133	0.0139	U
99	31.05	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.53	429.8				0.217	0.217	U
102	31.73	395.3				0.150	1.11	U
103	31.97	395.3				0.0640	0.0768	U
104	32.26	395.3				0.0374	0.0438	U
105	32.59	429.8				0.0460	0.0786	U
106	33.70	395.3				0.0538	0.234	U
107	33.96	395.3				0.0213	0.0768	U
108	34.77	429.8				0.0324	0.0438	U
109	34.99	429.8				0.116	0.768	U
110	35.52	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 17.3 ng/L 9.10 32.2 J

Total Nanomoles = 0.065

Average Molecular Weight = 264.8

Number of Calibrated Peaks Found = 54

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 217561.2

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 05:42:43  
 Lab Sample ID: AM14599  
 LRF ID: 09080314-06  
 Lab File ID: GC24-154-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001		2	-	-
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2933	2-2; 26	18.186	21.585
6	14.07	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3363	26-2	10.183	10.472
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018	0.3551	4-4; 25-2	1.994	2.121
15	16.11	3:2	017	0.3571	24-2	3.842	3.951
16	16.40	3:2	024 027	0.3636	236; 26-3	5.599	5.758
17	16.68	3:2	016 032	0.3698	23-2; 26-4	4.142	4.260
19	17.10	3:1 4:4	023 034 054	0.3791	235; 35-2; 26-26	1.162	1.148
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026	0.3862	25-3	2.492	2.563
22	17.49	3:1	025	0.3877	24-3	1.538	1.581
23	17.69	3:1	031	0.3922	25-4	4.545	4.674
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	1.513	1.556
25	18.12	3:1 4:3	020 021 033 053	0.4017	23-3; 234; 34-2; 25-26	2.839	2.897
26	18.32	3:1 4:3	022 051	0.4061	23-4; 24-26	2.091	2.140
27	18.54	4:3	045	0.4110	236-2	2.779	2.521
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4170	23-26	0.889	0.806
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	6.490	5.885
32	19.27	4:2	043 049	0.4272	235-2; 24-25	3.088	2.801
33	19.39	4:2	038 047	0.4298	345; 24-24	4.900	4.443
34	19.43	4:2	048 075	0.4307	245-2; 246-4	0.982	0.891
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.96	3:0 4:2	037 042 059	0.4425	34-4; 23-24; 236-3	2.691	2.616
39	20.31	4:2	041 064 071 072	0.4502	234-2; 236-4; 26-34; 25-35	2.827	2.563

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096		24-35; 236-26	-	-
42	20.57	4:2	040		23-23	-	-
43	20.84	4:1 5:3	057 103	0.4620	235-3; 246-25	1.060	0.939
44	20.99	4:1 5:3	058 067 100	0.4653	23-35; 245-3; 246-24	0.400	0.354
45	21.14	4:1	063	0.4686	235-4	0.240	0.218
46	21.33	4:1 5:3	074 094 061	0.4728	245-4; 235-26; 2345	0.819	0.743
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088	0.4782	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.414	3.080
49	21.85	4:1 5:3	055 091 121	0.4844	234-3; 236-24; 246-35	0.401	0.327
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.41	5:3 6:4	084 092 155	0.4968	236-23; 235-25; 246-246	1.767	1.434
52	22.52	5:3	089		234-26	-	-
53	22.66	5:2	090 101	0.5023	235-24; 245-25	0.476	0.386
54	22.85	5:2	079 099 113	0.5065	34-35; 245-24; 236-35	0.721	0.585
55	23.16	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.23	5:2	078 083 112 108	0.5150	345-3; 235-23; 2356-3; 2346-3	0.443	0.359
57	23.45	5:2 6:4	097 152 086	0.5198	245-23; 2356-26; 2345-2	0.631	0.512
58	23.61	5:2	081 087 117 125 115 145	0.5234	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.649	0.526
59	23.77	5:2	116 085 111	0.5269	23456; 234-24; 235-35	0.460	0.373
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.01	5:2	077 110 148	0.5323	34-34; 236-34; 235-246	1.638	1.329
62	24.34	6:3	154		245-246	-	-
63	24.39	5:2	082		234-23	-	-
64	24.67	6:3	151	0.5469	2356-25	0.354	0.260
65	24.80	5:1 6:3	124 135	0.5498	345-25; 235-236	0.113	0.085
66	24.91	6:3	144	0.5522	2346-25	0.428	0.314
67	24.92	5:1 6:3	107 109 147	0.5524	234-35; 235-34; 2356-24	0.775	0.609
68	25.01	5:1	123		345-24	-	-
69	25.14	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.99	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.09	5:1 6:3	105 132 161	0.5784	234-34; 234-236; 2346-35	0.437	0.332
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.82	7:4	179		2356-236	-	-
79	27.03	6:2	137		2345-24	-	-
80	27.17	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 17.3 ng/L

Total Nanomoles = 0.065

Average Molecular Weight = 264.8

Number of Calibrated Peaks Found = 54

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 1030 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

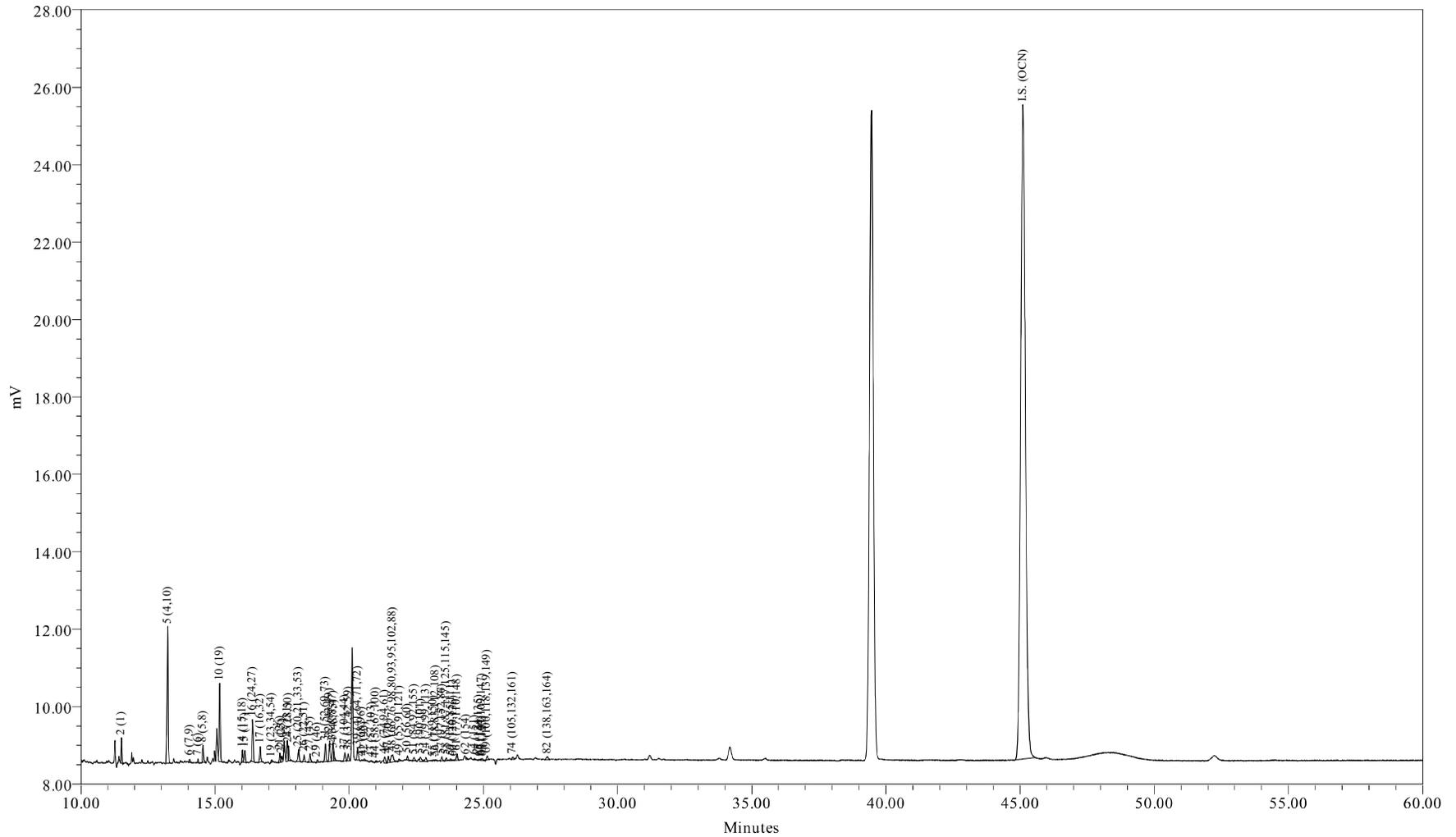
SDG No: 09080314  
LRF ID: 09080314-07  
Client ID: WFF-WAFO-090824-CT001  
Lab Sample ID: AM14600  
Lab File ID: GC24-154-11  
Date Received: 08/24/2009  
Date Extracted: 08/24/2009  
Date/Time Analyzed: 08/28/2009 07:53  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 210975

Percent Recovery (50 - 150 %): 117

SAMPLE TOTAL PCB CONCENTRATION: 109 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM14600  
Sample ID: WFF-WAFO-090824-CT001  
Date Acquired: 8/28/2009 7:53:30 AM EDT

Sample Amount (L) : 1.0300  
Dilution: 5  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-1T

Sample Name: AM14600

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 07:53:30  
 Lab Sample ID: AM14600  
 LRF ID: 09080314-07  
 Lab File ID: GC24-154-11

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 109 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	19.95	23.86
Di	52.02	52.60
Tri	19.38	16.98
Tetra	6.82	5.29
Penta	1.75	1.21
Hexa	0.08	0.05
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	21.7436	90.4	91.5
A1242	23+24/31+28	2.0082	8.35	8.45
A1254SED	61/100	0.3108	1.29	
A1254BIO	69+75+82/149+153+138			0
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.77

Meta + Para Cl / biphenyl Residue = 0.31

Total Cl / biphenyl Residue = 2.08

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 07:53:30  
 Lab Sample ID: AM14600  
 LRF ID: 09080314-07  
 Lab File ID: GC24-154-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7	1221	21.7	115	0.529	2.19	
3	12.52	188.7				6.63	1000	U
4	12.62	188.7				0.355	1.28	U
5	13.23	223.1	2370	54.3	243	0.670	3.11	
6	14.05	223.1	248	0.223	1.000	0.0721	0.219	
7	14.36	223.1	226	0.456	2.04	0.158	0.347	
8	14.55	223.1	1108	1.46	6.53	0.542	2.56	J
9	15.10	223.1				0.294	25.0	U
10	15.17	257.5	1258	8.72	33.9	0.302	0.512	
11	15.64	257.5				0.198	25.0	U
12	15.71	223.1				0.306	25.0	U
13	15.91	223.1				0.0559	0.0975	U
14	16.02	249.0	774	1.10	4.43	0.128	0.676	
15	16.11	257.5	851	2.10	8.14	0.143	0.676	
16	16.40	257.5	2839	2.49	9.67	0.0374	0.0475	
17	16.69	257.5	1195	1.76	6.82	0.166	0.713	
19	17.10	267.9	146	0.189	0.705	0.128	25.0	J
20	17.29	257.5				0.0108	0.0194	U
21	17.41	257.5	655	0.780	3.03	0.0606	0.132	
22	17.49	257.5	457	0.407	1.58	0.0426	0.0585	
23	17.69	257.5	1529	1.37	5.31	0.487	0.753	
24	17.74	257.5	1024	0.640	2.49	0.211	0.964	J
25	18.11	259.5	1080	1.06	4.07	0.105	0.726	
26	18.32	258.7	514	0.585	2.26	0.120	0.530	
27	18.54	292.0	663	0.691	2.37	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.80	292.0	191	0.240	0.821	0.127	0.127	
30	18.95	257.5				0.120	25.0	U
31	19.11	292.0	1380	1.81	6.20	0.204	0.872	
32	19.27	292.0	1845	1.23	4.23	0.0978	0.420	
33	19.39	292.0	1502	0.685	2.35	0.0656	0.183	B
34	19.42	292.0	422	0.287	0.983	0.0579	0.183	
35	19.59	292.0				0.205	25.0	U
36	19.68	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.83	292.0	674	0.191	0.653	0.160	0.786	J
38	19.96	272.4	566	0.599	2.20	0.115	0.475	J
39	20.31	292.0	1000	0.597	2.04	0.121	0.749	J
41	20.48	326.4	82			0.115	25.0	U
42	20.56	292.0	136	0.118	0.405	0.0968	0.172	J
43	20.84	298.9	121			0.152	25.0	U
44	20.99	298.9	143	0.0843	0.282	0.0225	0.0402	J
45	21.16	292.0				0.0299	0.0384	U
46	21.32	292.0	605	0.205	0.703	0.0821	0.347	J
47	21.46	292.0	602	0.191	0.653	0.164	0.621	J
48	21.62	293.5	1209	0.745	2.54	0.243	1.32	J
49	21.86	324.7	169	0.141	0.433	0.0376	0.0932	J
50	22.17	292.0	290			0.359	0.640	U
51	22.42	326.4	315	0.458	1.40	0.0888	0.329	J
52	22.52	326.4				0.0384	0.0384	U
53	22.65	326.4	433	0.241	0.737	0.0691	0.329	J
54	22.86	326.4	402	0.172	0.526	0.101	0.135	J
55	23.13	326.4	37	0.0120	0.0367	0.00644	0.0102	J
56	23.22	326.4	78	0.0680	0.208	0.0647	0.0647	J
57	23.45	326.4	365	0.179	0.547	0.0435	0.102	J
58	23.61	326.4	282	0.135	0.415	0.0841	0.212	J
59	23.79	326.4	184	0.0818	0.251	0.0484	0.128	J
60	23.88	360.9	34			0.0772	0.137	U
61	24.02	326.4	584	0.311	0.952	0.0668	0.389	J
62	24.34	360.9	126			0.113	25.0	U
63	24.39	326.4				0.0201	0.0804	U
64	24.67	360.9	140			0.0518	0.311	U
65	24.83	350.5	40			0.0149	0.0530	U
66	24.90	360.9	89	0.0659	0.183	0.0541	0.110	J
67	24.94	336.8	135	0.0880	0.261	0.0348	0.0475	J
68	24.97	326.4	93			0.125	25.0	U
69	25.14	337.5	351			0.0938	0.731	U
70	25.24	360.9				0.0829	25.0	U
71	25.52	347.8				0.0348	0.0369	U
72	25.72	336.8				0.00638	0.0106	U
73	25.99	360.9				0.0320	0.0713	U
74	26.09	347.8	201			0.0721	0.248	U
75	26.26	360.9				0.109	0.538	U
76	26.36	360.9				0.107	25.0	U
77	26.76	360.9				0.0637	0.311	U
78	26.82	395.3				0.0470	0.267	U
79	27.03	360.9				0.0501	0.0501	U
80	27.17	360.9				0.0151	0.0475	U
82	27.39	360.9	356			0.108	0.493	U
83	27.56	360.9				0.0450	0.0457	U
84	27.75	360.9				0.00310	0.00473	U
85	28.08	395.3				0.0677	0.201	U
87	28.38	395.3				0.0156	0.0731	U
88	28.51	395.3				0.102	0.658	U
89	28.63	360.9				0.0199	0.0366	U
90	28.81	395.3				0.0679	0.311	U
91	29.06	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.0225	0.0859	U
93	29.73	394.3				0.102	0.585	U
94	29.99	394.3				0.0936	0.311	U
95	30.27	382.2				0.0871	0.144	U
96	30.53	429.8				0.00942	0.0121	U
98	30.69	395.3				0.0133	0.0139	U
99	31.05	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.53	429.8				0.217	0.217	U
102	31.73	395.3				0.150	1.11	U
103	31.97	395.3				0.0640	0.0768	U
104	32.26	395.3				0.0374	0.0438	U
105	32.59	429.8				0.0460	0.0786	U
106	33.70	395.3				0.0538	0.234	U
107	33.96	395.3				0.0213	0.0768	U
108	34.77	429.8				0.0324	0.0438	U
109	34.99	429.8				0.116	0.768	U
110	35.52	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 109 ng/L

9.86 35.1

Total Nanomoles = 0.483

Average Molecular Weight = 225.7

Number of Calibrated Peaks Found = 54

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 210975.4

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
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Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 07:53:30  
 Lab Sample ID: AM14600  
 LRF ID: 09080314-07  
 Lab File ID: GC24-154-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2552	2	19.950	23.862
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2933	2-2; 26	49.810	50.391
6	14.05	2:1	007 009	0.3115	24; 25	0.205	0.207
7	14.36	2:1	006	0.3183	2-3	0.418	0.423
8	14.55	2:1	005 008	0.3225	23; 2-4	1.337	1.353
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3363	26-2	8.003	7.015
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018	0.3551	4-4; 25-2	1.012	0.918
15	16.11	3:2	017	0.3571	24-2	1.923	1.685
16	16.40	3:2	024 027	0.3636	236; 26-3	2.285	2.003
17	16.69	3:2	016 032	0.3700	23-2; 26-4	1.611	1.412
19	17.10	3:1 4:4	023 034 054	0.3791	235; 35-2; 26-26	0.173	0.146
20	17.29	3:1	029		245	-	-
21	17.41	3:1	026	0.3859	25-3	0.715	0.627
22	17.49	3:1	025	0.3877	24-3	0.374	0.328
23	17.69	3:1	031	0.3922	25-4	1.255	1.100
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	0.588	0.515
25	18.11	3:1 4:3	020 021 033 053	0.4015	23-3; 234; 34-2; 25-26	0.970	0.843
26	18.32	3:1 4:3	022 051	0.4061	23-4; 24-26	0.537	0.468
27	18.54	4:3	045	0.4110	236-2	0.634	0.490
28	18.69	3:0	036		35-3	-	-
29	18.80	4:3	046	0.4168	23-26	0.220	0.170
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	1.661	1.284
32	19.27	4:2	043 049	0.4272	235-2; 24-25	1.132	0.875
33	19.39	4:2	038 047	0.4298	345; 24-24	0.628	0.486
34	19.42	4:2	048 075	0.4305	245-2; 246-4	0.263	0.204
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035		34-3	-	-
37	19.83	5:4 4:2	104 044	0.4396	246-26; 23-25	0.175	0.135
38	19.96	3:0 4:2	037 042 059	0.4425	34-4; 23-24; 236-3	0.550	0.455
39	20.31	4:2	041 064 071 072	0.4502	234-2; 236-4; 26-34; 25-35	0.548	0.423

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096		24-35; 236-26	-	-
42	20.56	4:2	040	0.4558	23-23	0.109	0.084
43	20.84	4:1 5:3	057 103		235-3; 246-25	-	-
44	20.99	4:1 5:3	058 067 100	0.4653	23-35; 245-3; 246-24	0.077	0.058
45	21.16	4:1	063		235-4	-	-
46	21.32	4:1 5:3	074 094 061	0.4726	245-4; 235-26; 2345	0.188	0.146
47	21.46	4:1	070	0.4757	25-34	0.175	0.135
48	21.62	4:1 5:3	066 076 098 080 093 095 102 088	0.4793	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.683	0.526
49	21.86	4:1 5:3	055 091 121	0.4846	234-3; 236-24; 246-35	0.129	0.090
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.42	5:3 6:4	084 092 155	0.4970	236-23; 235-25; 246-246	0.420	0.290
52	22.52	5:3	089		234-26	-	-
53	22.65	5:2	090 101	0.5021	235-24; 245-25	0.221	0.153
54	22.86	5:2	079 099 113	0.5068	34-35; 245-24; 236-35	0.157	0.109
55	23.13	5:2 6:4	119 150	0.5127	246-34; 236-246	0.011	0.008
56	23.22	5:2	078 083 112 108	0.5147	345-3; 235-23; 2356-3; 2346-3	0.062	0.043
57	23.45	5:2 6:4	097 152 086	0.5198	245-23; 2356-26; 2345-2	0.164	0.113
58	23.61	5:2	081 087 117 125 115 145	0.5234	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.124	0.086
59	23.79	5:2	116 085 111	0.5274	23456; 234-24; 235-35	0.075	0.052
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148	0.5325	34-34; 236-34; 235-246	0.285	0.197
62	24.34	6:3	154		245-246	-	-
63	24.39	5:2	082		234-23	-	-
64	24.67	6:3	151		2356-25	-	-
65	24.83	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.90	6:3	144	0.5520	2346-25	0.060	0.038
67	24.94	5:1 6:3	107 109 147	0.5529	234-35; 235-34; 2356-24	0.081	0.054
68	24.97	5:1	123		345-24	-	-
69	25.14	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.99	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.09	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.82	7:4	179		2356-236	-	-
79	27.03	6:2	137		2345-24	-	-
80	27.17	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.39	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 109 ng/L

Total Nanomoles = 0.483

Average Molecular Weight = 225.7

Number of Calibrated Peaks Found = 54

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

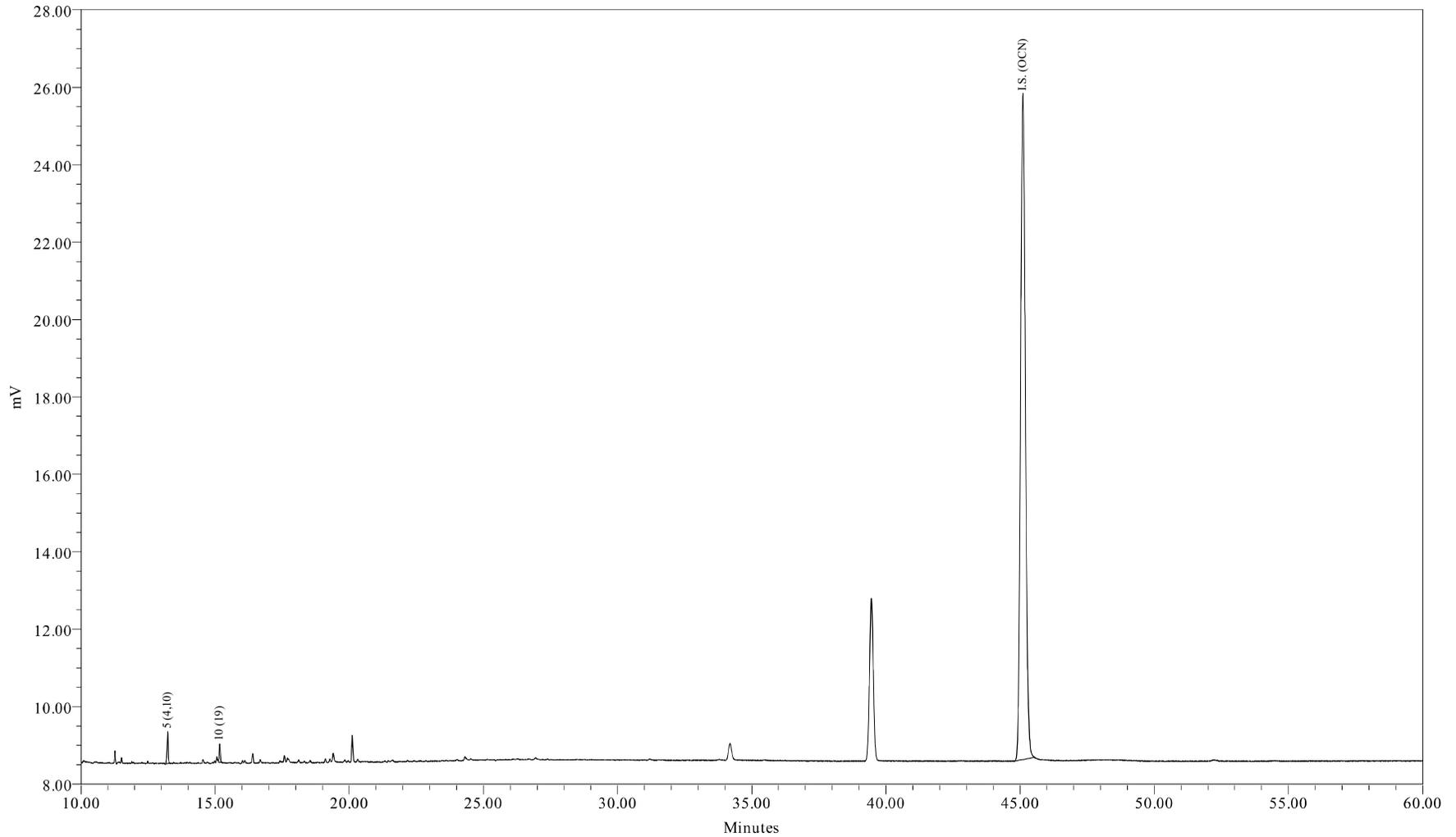
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM14600DL1  
Sample ID: WFF-WAFO-090824-CT001  
Date Acquired: 8/28/2009 8:58:55 AM EDT

Sample Amount (L) : 1.0300  
Dilution: 25  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-12

Sample Name: AM14600DL1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 08:58:55  
 Lab Sample ID: AM14600DL1  
 LRF ID: 09080314-07DL1  
 Lab File ID: GC24-154-12

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 63.0 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	86.16	87.78
Tri	13.84	12.22
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.12

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.12

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 08:58:55  
 Lab Sample ID: AM14600DL1  
 LRF ID: 09080314-07DL1  
 Lab File ID: GC24-154-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				2.64	11.0	U
3	12.52	188.7				33.1	5000	U
4	12.62	188.7				1.77	6.40	U
5	13.23	223.1	2370	54.3	243	0.670	3.11	
6	14.06	223.1				0.360	1.10	U
7	14.37	223.1				0.791	1.74	U
8	14.55	223.1				2.71	12.8	U
9	15.10	223.1				1.47	125	U
10	15.17	257.5	1258	8.72	33.9	0.302	0.512	
11	15.64	257.5				0.992	125	U
12	15.71	223.1				1.53	125	U
13	15.91	223.1				0.279	0.488	U
14	16.03	249.0				0.640	3.38	U
15	16.11	257.5				0.716	3.38	U
16	16.41	257.5				0.187	0.237	U
17	16.66	257.5				0.829	3.56	U
19	17.11	267.9				0.641	125	U
20	17.29	257.5				0.0540	0.0970	U
21	17.42	257.5				0.303	0.658	U
22	17.50	257.5				0.213	0.292	U
23	17.69	257.5				2.44	3.77	U
24	17.75	257.5				1.05	4.82	U
25	18.09	259.5				0.526	3.63	U
26	18.32	258.7				0.598	2.65	U
27	18.55	292.0				0.183	0.813	U
28	18.69	257.5				1.88	125	U
29	18.82	292.0				0.634	0.634	U
30	18.95	257.5				0.601	125	U
31	19.11	292.0				1.02	4.36	U
32	19.28	292.0				0.489	2.10	U
33	19.39	292.0				0.328	0.914	U
34	19.46	292.0				0.289	0.914	U
35	19.59	292.0				1.02	125	U
36	19.68	257.5				0.722	125	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				0.802	3.93	U
38	19.97	272.4				0.573	2.38	U
39	20.32	292.0				0.607	3.75	U
41	20.48	326.4				0.573	125	U
42	20.58	292.0				0.484	0.859	U
43	20.83	298.9				0.762	125	U
44	21.01	298.9				0.113	0.201	U
45	21.16	292.0				0.150	0.192	U
46	21.33	292.0				0.410	1.74	U
47	21.46	292.0				0.818	3.11	U
48	21.57	293.5				1.22	6.58	U
49	21.87	324.7				0.188	0.466	U
50	22.18	292.0				1.80	3.20	U
51	22.41	326.4				0.444	1.64	U
52	22.52	326.4				0.192	0.192	U
53	22.67	326.4				0.345	1.64	U
54	22.86	326.4				0.506	0.676	U
55	23.14	326.4				0.0322	0.0512	U
56	23.24	326.4				0.324	0.324	U
57	23.45	326.4				0.217	0.512	U
58	23.62	326.4				0.421	1.06	U
59	23.77	326.4				0.242	0.640	U
60	23.89	360.9				0.386	0.685	U
61	24.02	326.4				0.334	1.95	U
62	24.30	360.9				0.565	125	U
63	24.39	326.4				0.100	0.402	U
64	24.68	360.9				0.259	1.55	U
65	24.82	350.5				0.0746	0.265	U
66	24.89	360.9				0.270	0.548	U
67	24.95	336.8				0.174	0.237	U
68	25.04	326.4				0.626	125	U
69	25.13	337.5				0.469	3.65	U
70	25.24	360.9				0.414	125	U
71	25.52	347.8				0.174	0.184	U
72	25.72	336.8				0.0319	0.0532	U
73	25.99	360.9				0.160	0.356	U
74	26.10	347.8				0.360	1.24	U
75	26.26	360.9				0.545	2.69	U
76	26.36	360.9				0.535	125	U
77	26.76	360.9				0.319	1.55	U
78	26.82	395.3				0.235	1.33	U
79	27.03	360.9				0.251	0.251	U
80	27.17	360.9				0.0754	0.237	U
82	27.39	360.9				0.539	2.47	U
83	27.56	360.9				0.225	0.228	U
84	27.75	360.9				0.0155	0.0236	U
85	28.08	395.3				0.339	1.00	U
87	28.38	395.3				0.0782	0.366	U
88	28.51	395.3				0.509	3.29	U
89	28.63	360.9				0.0997	0.183	U
90	28.81	395.3				0.339	1.55	U
91	29.06	360.9				0.174	0.174	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.112	0.429	U
93	29.73	394.3				0.512	2.92	U
94	29.99	394.3				0.468	1.55	U
95	30.27	382.2				0.436	0.722	U
96	30.53	429.8				0.0471	0.0605	U
98	30.69	395.3				0.0667	0.0695	U
99	31.05	429.8				0.431	0.431	U
100	31.27	395.3				0.633	0.633	U
101	31.53	429.8				1.09	1.09	U
102	31.73	395.3				0.751	5.57	U
103	31.97	395.3				0.320	0.384	U
104	32.26	395.3				0.187	0.219	U
105	32.59	429.8				0.230	0.393	U
106	33.70	395.3				0.269	1.17	U
107	33.96	395.3				0.106	0.384	U
108	34.77	429.8				0.162	0.219	U
109	34.99	429.8				0.578	3.84	U
110	35.52	429.8				0.922	3.93	U
111	36.64	395.3				0.115	0.115	U
112	38.10	429.8				0.184	0.505	U
113	38.59	464.2				0.219	0.452	U
114	39.49	464.2				0.0770	0.170	U
115	40.84	429.8				0.484	1.64	U
116	41.67	429.8				0.419	0.419	U
117	46.57	464.2				0.192	0.621	U
118	52.30	498.6				0.0629	0.0629	U

Total Concentration = 63.0 ng/L 45.5      161      J

Total Nanomoles = 0.277

Average Molecular Weight = 227.3

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 218355.5

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090824-CT001  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 08:58:55  
 Lab Sample ID: AM14600DL1  
 LRF ID: 09080314-07DL1  
 Lab File ID: GC24-154-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001		2	-	-
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2933	2-2; 26	86.157	87.781
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3363	26-2	13.843	12.219
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013		34; 3-4	-	-
14	16.03	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.41	3:2	024 027		236; 26-3	-	-
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.69	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.55	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046		23-26	-	-
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
41	20.48	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.87	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.18	4:1	056 060		23-34; 234-4	-	-
51	22.41	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.52	5:3	089		234-26	-	-
53	22.67	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.14	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.24	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.45	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.62	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.89	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.30	6:3	154		245-246	-	-
63	24.39	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.82	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.89	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.13	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.99	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.82	7:4	179		2356-236	-	-
79	27.03	6:2	137		2345-24	-	-
80	27.17	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.39	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 63.0 ng/L

Total Nanomoles = 0.277

Average Molecular Weight = 227.3

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

# Sample GC Injection Log



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Sample Set Name: GC24\_cc\_081109  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 08/11/2009 11:29:44 EDT  
Current Date: 08/13/2009  
Report Name: CSGB\_SSReport

### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090811B01	1.000	1.00	1	08/11/2009 11:32:53 EDT
2	HEXANE BLANK	Unknown	090811B02	1.000	1.00	1	08/11/2009 12:38:19 EDT
3	HEXANE BLANK	Unknown	090811B03	1.000	1.00	1	08/11/2009 13:43:48 EDT
4	ICAL 6.25 ng/mL	Standard	ICAL0811A	1.000	1.00	1	08/11/2009 14:49:17 EDT
5	ICAL 12.5 ng/mL	Standard	ICAL0811B	1.000	1.00	1	08/11/2009 15:54:46 EDT
6	ICAL 125 ng/mL	Standard	ICAL0811C	1.000	1.00	1	08/11/2009 17:00:14 EDT
7	ICAL 314 ng/mL	Standard	ICAL0811D	1.000	1.00	1	08/11/2009 18:05:44 EDT
8	ICAL 627 ng/mL	Standard	ICAL0811E	1.000	1.00	1	08/11/2009 19:11:11 EDT
9	HEXANE BLANK	Unknown	090811B04	1.000	1.00	1	08/11/2009 20:16:56 EDT
10	SUP CONG STD 200/5 ng/mL	Standard	SC0811A	1.000	1.00	1	08/11/2009 21:22:27 EDT
11	Surr TCMX/DCBP 5/50 ppb	Standard	TD0811A	1.000	1.00	1	08/11/2009 22:27:58 EDT
12	Surr Std (207) 2.0 ng/mL	Standard	SS0811A	1.000	1.00	1	08/11/2009 23:33:27 EDT
13	Surr Std (207) 20.0 ng/mL	Standard	SS0811B	1.000	1.00	1	08/12/2009 00:38:57 EDT
14	HEXANE BLANK	Unknown	090811B05	1.000	1.00	1	08/12/2009 01:44:26 EDT
15	CCC Std 122 ng/mL	Unknown	CCCS0811A	1.000	1.00	1	08/12/2009 02:49:56 EDT



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Sample Set Name: GC24\_082309d  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 08/23/2009 04:26:28  
Date Printed: 09/11/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	ZZZZZ	Unknown	ZZZZZ	1.050	5.00	5	08/23/2009 04:26:28
2	CCC Std 122 ng/mL	Unknown	CCCS0823A	1.000	1.00	1	08/23/2009 06:37:23
3	METHOD BLANK	Unknown	AM14490B	1.000	5.00	5	08/23/2009 10:44:54
4	LAB CONTROL SPIKE	Unknown	AM14490L	1.000	5.00	5	08/23/2009 11:50:21
5	ZZZZZ	Unknown	ZZZZZ	0.920	5.00	5	08/23/2009 12:55:46
6	ZZZZZ	Unknown	ZZZZZ	0.920	50.00	5	08/23/2009 14:01:13
7	ZZZZZ	Unknown	ZZZZZ	1.050	5.00	5	08/23/2009 15:06:39
8	ZZZZZ	Unknown	ZZZZZ	1.050	50.00	5	08/23/2009 16:12:07
9	ZZZZZ	Unknown	ZZZZZ	0.990	5.00	5	08/23/2009 17:17:35
10	ZZZZZ	Unknown	ZZZZZ	0.990	50.00	5	08/23/2009 18:23:05
11	CCC Std 122 ng/mL	Unknown	CCCS0823B	1.000	1.00	1	08/23/2009 19:28:34
12	ZZZZZ	Unknown	ZZZZZ	1.060	5.00	5	08/23/2009 20:34:05
13	CCC Std 122 ng/mL	Unknown	CCCS0823C	1.000	1.00	1	08/23/2009 22:45:20
14	METHOD BLANK	Unknown	AM13723B	1.000	5.00	5	08/23/2009 23:50:48
15	LAB CONTROL SPIKE	Unknown	AM13723L	1.000	5.00	5	08/24/2009 00:56:16
16	ZZZZZ	Unknown	ZZZZZ	0.980	5.00	5	08/24/2009 02:01:43
17	ZZZZZ	Unknown	ZZZZZ	0.960	5.00	5	08/24/2009 03:07:12
18	ZZZZZ	Unknown	ZZZZZ	1.000	5.00	5	08/24/2009 04:12:39
19	ZZZZZ	Unknown	ZZZZZ	1.020	5.00	5	08/24/2009 05:18:07
20	ZZZZZ	Unknown	ZZZZZ	0.980	5.00	5	08/24/2009 06:23:32
21	ZZZZZ	Unknown	ZZZZZ	1.020	5.00	5	08/24/2009 07:29:00
22	ZZZZZ	Unknown	ZZZZZ	0.970	5.00	5	08/24/2009 08:34:26
23	CCC Std 122 ng/mL	Unknown	CCCS0823E	1.000	1.00	1	08/24/2009 09:40:09



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Sample Set Name: GC24\_082409B  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 08/24/2009 10:45:37  
Date Printed: 09/11/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	METHOD BLANK	Unknown	AM14526B	1.000	5.00	5	08/24/2009 10:45:37
2	LAB CONTROL SPIKE	Unknown	AM14526L	1.000	5.00	5	08/24/2009 11:51:04
3	ZZZZZ	Unknown	ZZZZZ	0.960	5.00	5	08/24/2009 12:56:31
4	ZZZZZ	Unknown	ZZZZZ	0.960	50.00	5	08/24/2009 14:01:58
5	CCC Std 122 ng/mL	Unknown	CCCS0824A	1.000	1.00	1	08/24/2009 15:07:26
6	ZZZZZ	Unknown	ZZZZZ	1.000	5.00	5	08/24/2009 16:12:52
7	ZZZZZ	Unknown	ZZZZZ	0.960	5.00	5	08/24/2009 17:18:18
8	ZZZZZ	Unknown	ZZZZZ	0.970	5.00	5	08/24/2009 18:23:45
9	ZZZZZ	Unknown	ZZZZZ	1.010	5.00	5	08/24/2009 19:29:09
10	ZZZZZ	Unknown	ZZZZZ	0.970	5.00	5	08/24/2009 20:34:38
11	ZZZZZ	Unknown	ZZZZZ	0.980	25.00	5	08/24/2009 21:40:17
12	ZZZZZ	Unknown	ZZZZZ	0.960	25.00	5	08/24/2009 22:45:44
13	ZZZZZ	Unknown	ZZZZZ	1.020	25.00	5	08/25/2009 00:56:35
14	CCC Std 122 ng/mL	Unknown	CCCS0824B	1.000	1.00	1	08/25/2009 02:02:02
15	ZZZZZ	Unknown	ZZZZZ	0.980	50.00	5	08/25/2009 03:07:28
16	ZZZZZ	Unknown	ZZZZZ	1.020	50.00	5	08/25/2009 04:12:53
17	ZZZZZ	Unknown	ZZZZZ	0.970	50.00	5	08/25/2009 05:18:19
18	ZZZZZ	Unknown	ZZZZZ	1.000	50.00	5	08/25/2009 06:23:43
19	ZZZZZ	Unknown	ZZZZZ	0.960	50.00	5	08/25/2009 07:29:04
20	ZZZZZ	Unknown	ZZZZZ	0.970	250.00	5	08/25/2009 08:34:28
21	ZZZZZ	Unknown	ZZZZZ	1.010	25.00	5	08/25/2009 09:39:54
22	ZZZZZ	Unknown	ZZZZZ	0.970	25.00	5	08/25/2009 10:45:18
23	CCC Std 122 ng/mL	Unknown	CCCS0824C	1.000	1.00	1	08/25/2009 11:50:44



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Sample Set Name: GC24\_082609c  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 08/26/2009 11:51:00  
Date Printed: 09/11/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	METHOD BLANK	Unknown	AM14746B	1.000	5.00	5	08/26/2009 11:51:00
2	LAB CONTROL SPIKE	Unknown	AM14746L	1.000	5.00	5	08/26/2009 12:56:26
3	ZZZZZ	Unknown	ZZZZZ	1.050	5.00	5	08/26/2009 14:01:53
4	ZZZZZ	Unknown	ZZZZZ	1.050	50.00	5	08/26/2009 15:07:18
5	ZZZZZ	Unknown	ZZZZZ	1.000	5.00	5	08/26/2009 16:12:44
6	ZZZZZ	Unknown	ZZZZZ	1.000	50.00	5	08/26/2009 17:18:10
7	ZZZZZ	Unknown	ZZZZZ	0.980	5.00	5	08/26/2009 18:23:38
8	ZZZZZ	Unknown	ZZZZZ	0.980	50.00	5	08/26/2009 19:29:07
9	CCC Std 122 ng/mL	Unknown	CCCS0826B	1.000	1.00	1	08/26/2009 20:34:33
10	ZZZZZ	Unknown	ZZZZZ	0.660	5.00	5	08/26/2009 22:23:57
11	ZZZZZ	Unknown	ZZZZZ	0.680	5.00	5	08/26/2009 23:29:41
12	ZZZZZ	Unknown	ZZZZZ	1.030	5.00	5	08/27/2009 00:35:07
13	ZZZZZ	Unknown	ZZZZZ	1.040	5.00	5	08/27/2009 01:40:38
14	CCC Std 122 ng/mL	Unknown	CCCS0826C	1.000	1.00	1	08/27/2009 02:46:05
15	METHOD BLANK	Unknown	AM14062B	1.000	5.00	5	08/27/2009 03:51:30
16	LAB CONTROL SPIKE	Unknown	AM14062L	1.000	5.00	5	08/27/2009 04:56:55
17	ZZZZZ	Unknown	ZZZZZ	1.080	5.00	5	08/27/2009 06:02:19
18	ZZZZZ	Unknown	ZZZZZ	1.080	5.00	5	08/27/2009 07:07:43
19	ZZZZZ	Unknown	ZZZZZ	1.080	5.00	5	08/27/2009 08:13:09
20	ZZZZZ	Unknown	ZZZZZ	1.080	5.00	5	08/27/2009 09:18:35
21	ZZZZZ	Unknown	ZZZZZ	1.080	5.00	5	08/27/2009 10:23:58
22	ZZZZZ	Unknown	ZZZZZ	1.080	5.00	5	08/27/2009 11:29:25
23	ZZZZZ	Unknown	ZZZZZ	1.080	5.00	5	08/27/2009 12:34:50
24	CCC Std 122 ng/mL	Unknown	CCCS0826D	1.000	1.00	1	08/27/2009 13:40:18
25	ZZZZZ	Unknown	ZZZZZ	1.080	5.00	5	08/27/2009 14:45:43
26	CCC Std 122 ng/mL	Unknown	CCCS0826E	1.000	1.00	1	08/27/2009 15:51:12



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Sample Set Name: GC24\_082709  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 08/27/2009 20:59:06  
Date Printed: 09/11/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	WFF-LOC5-090824-CT001	Unknown	AM14595	1.060	5.00	5	08/27/2009 20:59:06
2	WFF-LOC5-090824-CT001	Unknown	AM14595DL1	1.060	25.00	5	08/27/2009 22:04:31
3	WFF-SCHU-090824-CT001	Unknown	AM14596	1.020	5.00	5	08/27/2009 23:09:56
4	WFF-SCHU-090824-CT001	Unknown	AM14596DL1	1.020	25.00	5	08/28/2009 00:15:36
5	WFF-THIS-090824-CT001	Unknown	AM14597	1.040	5.00	5	08/28/2009 01:21:00
6	WFF-THIS-090824-CT001	Unknown	AM14597DL1	1.040	25.00	5	08/28/2009 02:26:26
7	WFF-TIDA-090824-CT001	Unknown	AM14598	1.060	5.00	5	08/28/2009 03:31:51
8	WFF-TIDA-090824-CT001	Unknown	AM14598DL1	1.060	25.00	5	08/28/2009 04:37:18
9	WFF-WAFA-090824-CT001	Unknown	AM14599	1.080	5.00	5	08/28/2009 05:42:43
10	CCC Std 122 ng/mL	Unknown	CCCS0827A	1.000	1.00	1	08/28/2009 06:48:08
11	WFF-WAFO-090824-CT001	Unknown	AM14600	1.030	5.00	5	08/28/2009 07:53:30
12	WFF-WAFO-090824-CT001	Unknown	AM14600DL1	1.030	25.00	5	08/28/2009 08:58:55
13	CCC Std 122 ng/mL	Unknown	CCCS0827B	1.000	1.00	1	08/28/2009 10:04:21



Project Name: GC24\_Mar\_2009

Sample Set Name: GC24\_082309d

Date Printed: 09/11/2009

**Operating Conditions Gas Chromatography**

User Name: Keith Friedman

Injection Method: Splitless

Sample Size: 1.0 uL

Column Type: Capillary

**Temperature Information**

Column Temperature: Program

Injector Temperature: 300 °C

Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min

Temperature Program: 15 °C/min

Intermediate Temperature: 150 °C

Temperature Program: 4.3 °C/min

Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

Material: Fused Silica

Length: 30 meter

Internal Diameter: 0.25 mm

Carrier Gas: Helium

Make-up Gas: Nitrogen

Flow Pressure: 27.0psi

Make-up Flow: 65 mL/min

Split Ratio: None

**Detector Information**

Detector Name:

Detector Type: ECD

Detector Range: 4



Project Name: GC24\_Mar\_2009

Sample Set Name: GC24\_082409B

Date Printed: 09/11/2009

**Operating Conditions Gas Chromatography**

User Name: Amy Jo Arndt

Injection Method: Splitless

Sample Size: 1.0 uL

Column Type: Capillary

**Temperature Information**

Column Temperature: Program

Injector Temperature: 300 °C

Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C                      Hold: 2.5 min

Temperature Program: 15 °C/min

Intermediate Temperature: 150 °C

Temperature Program: 4.3 °C/min

Final Temperature: 220 °C                      Hold: 35.1 min

**Column Information**

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

Material: Fused Silica

Length: 30 meter

Internal Diameter: 0.25 mm

Carrier Gas: Helium

Make-up Gas: Nitrogen

Flow Pressure: 27.0psi

Make-up Flow: 65 mL/min

Split Ratio: None

**Detector Information**

Detector Name:

Detector Type: ECD

Detector Range: 4



Project Name: GC24\_Mar\_2009  
Sample Set Name: GC24\_082609c  
Date Printed: 09/11/2009

**Operating Conditions Gas Chromatography**

User Name: Inga Hotaling Injection Method: Splitless  
Sample Size: 1.0 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 27.0psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector Type: ECD Detector Range: 4



Project Name: GC24\_Mar\_2009  
Sample Set Name: GC24\_082709  
Date Printed: 09/11/2009

**Operating Conditions Gas Chromatography**

User Name: Brittney Ivey Injection Method: Splitless  
Sample Size: 1.0 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 27.0psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector Type: ECD Detector Range: 4

# Standards Summary Tables



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Sample Set Name: GC24\_cc\_081109  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 08/11/2009 11:29:44 EDT  
Current Date: 08/13/2009  
Report Name: CSGB\_SumRpt\_OCNArea

#### ICAL OCN Area Summary Report

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0811A	ICAL 6.25 ng/mL	08/11/2009 14:49:17 EDT	180957
2	ICAL0811B	ICAL 12.5 ng/mL	08/11/2009 15:54:46 EDT	182277
3	ICAL0811C	ICAL 125 ng/mL	08/11/2009 17:00:14 EDT	177753
4	ICAL0811D	ICAL 314 ng/mL	08/11/2009 18:05:44 EDT	176927
5	ICAL0811E	ICAL 627 ng/mL	08/11/2009 19:11:11 EDT	183233
Mean				180229



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System Name:	Instrument_24	Date Calibrated:	08/12/2009 02:33:16 EDT
Sample Set Name:	GC24_cc_081109	Method Report:	CSGB CCSum by RF
Sample Set Date:	08/11/2009 11:29:44 EDT	User Name:	Inga Hotaling (IngaH)
Processing Method:	CSGB_LL1X_081109		

**Calibration Component Summary Table  
 Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)
1	ICAL0811A	0.022506		0.012611	0.053510	0.475407	0.214204	0.118387			
2	ICAL0811B	0.024845		0.011724	0.056623	0.410442	0.196355	0.114238		0.345485	
3	ICAL0811C	0.024547		0.012023	0.055715	0.401204	0.192854	0.105552		0.310728	
4	ICAL0811D	0.022972		0.012187	0.055640	0.377393	0.181809	0.097348		0.296040	
5	ICAL0811E				0.052448					0.282742	
6	SC0811A		0.002545						0.145840		0.532627
Mean		0.024	0.003	0.012	0.055	0.416	0.196	0.109	0.146	0.309	0.533
Std. Dev.		0.001		0.000	0.002	0.042	0.013	0.009		0.027	
% RSD		4.86		3.05	3.17	10.07	6.85	8.60		8.75	

**Calibration Component Summary Table  
 Component Summary For RF**

	12 (11)	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)
1			0.389962	0.195707	0.536948	0.320563			0.361738	0.507612	0.495761
2		0.261084	0.342200	0.176479	0.519764	0.269913		0.583823	0.331241	0.471332	0.454631
3		0.268109	0.324775	0.166452	0.510988	0.281933		0.499750	0.360154	0.474475	0.460004
4		0.271081	0.306637	0.154193	0.489412	0.266013		0.511335	0.348593	0.462104	0.414211
5					0.464044						
6	0.055106						0.324270				
Mean	0.055	0.267	0.341	0.173	0.504	0.285	0.324	0.532	0.350	0.479	0.456
Std. Dev.		0.005	0.036	0.018	0.028	0.025		0.046	0.014	0.020	0.033
% RSD		1.92	10.50	10.13	5.60	8.75		8.57	4.02	4.15	7.32

**Calibration Component Summary Table  
 Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
1	0.581173	0.449775	0.364579	0.417043		0.320074		0.333738	0.675368	1.122532
2	0.560961	0.412996	0.364394	0.422765		0.331875		0.328004	0.677694	1.106880
3	0.511538	0.384216	0.359114	0.403124		0.336235		0.310392	0.613354	0.864499
4	0.475295	0.366934	0.353510	0.389266		0.336401		0.284113	0.570778	0.801317
5										
6					0.250228		0.247593			
Mean	0.532	0.403	0.360	0.408	0.250	0.331	0.248	0.314	0.634	0.974

**Calibration Component Summary Table  
Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
Std. Dev.	0.048	0.036	0.005	0.015		0.008		0.022	0.052	0.165
% RSD	9.00	8.98	1.46	3.67		2.32		7.10	8.16	16.93

**Calibration Component Summary Table  
Component Summary For RF**

	34 (48,75)	35 (62,65)	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)
1	0.580447			0.668656	0.403941	0.645672		0.451293		
2	0.656211			0.592719	0.384697	0.647415		0.502305		0.734607
3	0.597081			0.495764	0.374437	0.625087		0.496491		0.713356
4	0.578533			0.439301	0.373784	0.574602		0.476644		0.661887
5										
6		0.641279	0.250135				0.345578		0.483012	
Mean	0.603	0.641	0.250	0.549	0.384	0.623	0.346	0.482	0.483	0.703
Std. Dev.	0.036			0.102	0.014	0.034		0.023		0.037
% RSD	6.03			18.54	3.66	5.45		4.78		5.32

**Calibration Component Summary Table  
Component Summary For RF**

	45 (63)	46 (74,94,61)	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)
1	0.818880	1.026346	0.833373		0.555679	0.515567	0.814421	0.299185
2	0.851310	1.009110	0.808354		0.536275	0.475657	0.784212	0.273492
3	0.704625	0.911070	0.734910		0.489256	0.535723	0.732876	0.274143
4	0.654212	0.847660	0.669429		0.448847	0.512118	0.688546	0.258755
5								
6								
Mean	0.757	0.949	0.762		0.508	0.510	0.755	0.276
Std. Dev.	0.093	0.084	0.074		0.048	0.025	0.056	0.017
% RSD	12.30	8.88	9.75		9.46	4.91	7.37	6.07

**Calibration Component Summary Table  
Component Summary For RF**

	53 (90,101)	54 (79,99,113)	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)
1	0.686145	0.987307			0.912880		0.747467
2	0.649184	0.943189	1.259268	0.471677	0.858913		0.748416
3	0.611346	0.935265	1.303885	0.489920	0.778354		0.673077
4	0.568132	0.878719	1.239188	0.464958	0.736414		0.634278
5							
6							
Mean	0.629	0.936	1.267	0.476	0.822		0.701
Std. Dev.	0.051	0.045	0.033	0.013	0.079		0.057
% RSD	8.05	4.76	2.61	2.72	9.65		8.09

**Calibration Component Summary Table  
Component Summary For RF**

	60 (120,136)	61 (77,110,148)	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)
1	0.585787	0.723176		0.639802	0.698501	1.095525	0.511996		
2	0.515251	0.675030		0.845563	0.724910	1.060392	0.443804	0.660016	
3	0.621483	0.616320		0.717334	0.665733	1.079187	0.431113	0.642454	
4	0.603789	0.573734		0.684927	0.625208	1.009153	0.406851	0.588043	
5									
6			0.578491						0.660826
Mean	0.582	0.647	0.578	0.722	0.679	1.061	0.448	0.630	0.661
Std. Dev.	0.047	0.066		0.088	0.043	0.037	0.045	0.038	
% RSD	8.01	10.13		12.24	6.34	3.53	10.05	5.95	

**Calibration Component Summary Table  
Component Summary For RF**

	69 (106,118,139,149)	70 (140)	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)
1	0.866505		0.745133		0.738717	1.039871	1.047785
2	0.854624		0.695447	0.951238	0.755001	1.028118	1.023827
3	0.761622		0.713120	0.868391	0.809506	0.987796	0.931266
4	0.681262		0.726710	0.926589	0.754228	0.942369	0.830383
5							
6		0.667810					
Mean	0.791	0.668	0.720	0.915	0.764	1.000	0.958
Std. Dev.	0.087		0.021	0.043	0.031	0.044	0.099
% RSD	10.99		2.92	4.65	4.06	4.42	10.33

**Calibration Component Summary Table  
Component Summary For RF**

	76 (127,168,184)	77 (141)	78 (179)	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)
1		0.553900	0.669092		1.593089	1.095412	1.077690		0.404607
2		0.612926	0.701951	0.490216	1.296452	1.025215	1.184547	3.023072	0.423339
3		0.603373	0.689791	0.517765	1.583160	0.880352	0.943792	2.954035	0.449941
4		0.553069	0.666533	0.462563	1.443515	0.808544	0.923316	3.197932	0.421441
5									
6	0.591995								
Mean	0.592	0.581	0.682	0.490	1.479	0.952	1.032	3.058	0.425
Std. Dev.		0.032	0.017	0.028	0.140	0.131	0.122	0.126	0.019
% RSD		5.48	2.49	5.63	9.44	13.78	11.86	4.11	4.41

**Calibration Component Summary Table  
Component Summary For RF**

	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
1		1.082770		0.793854		1.282175	0.906371	0.693978	0.790301	5.482686
2	0.508662	1.029095	1.313668	0.879694	0.673017	1.390694	0.918087	0.761617	0.853820	5.515629
3	0.467996	0.858308	1.234614	0.808168	0.742741	1.172021	0.830602	0.732640	0.802906	5.532509
4	0.477014	0.775827	1.070092	0.764387	0.721404	1.104180	0.767792	0.691662	0.746506	5.219795

**Calibration Component Summary Table  
Component Summary For RF**

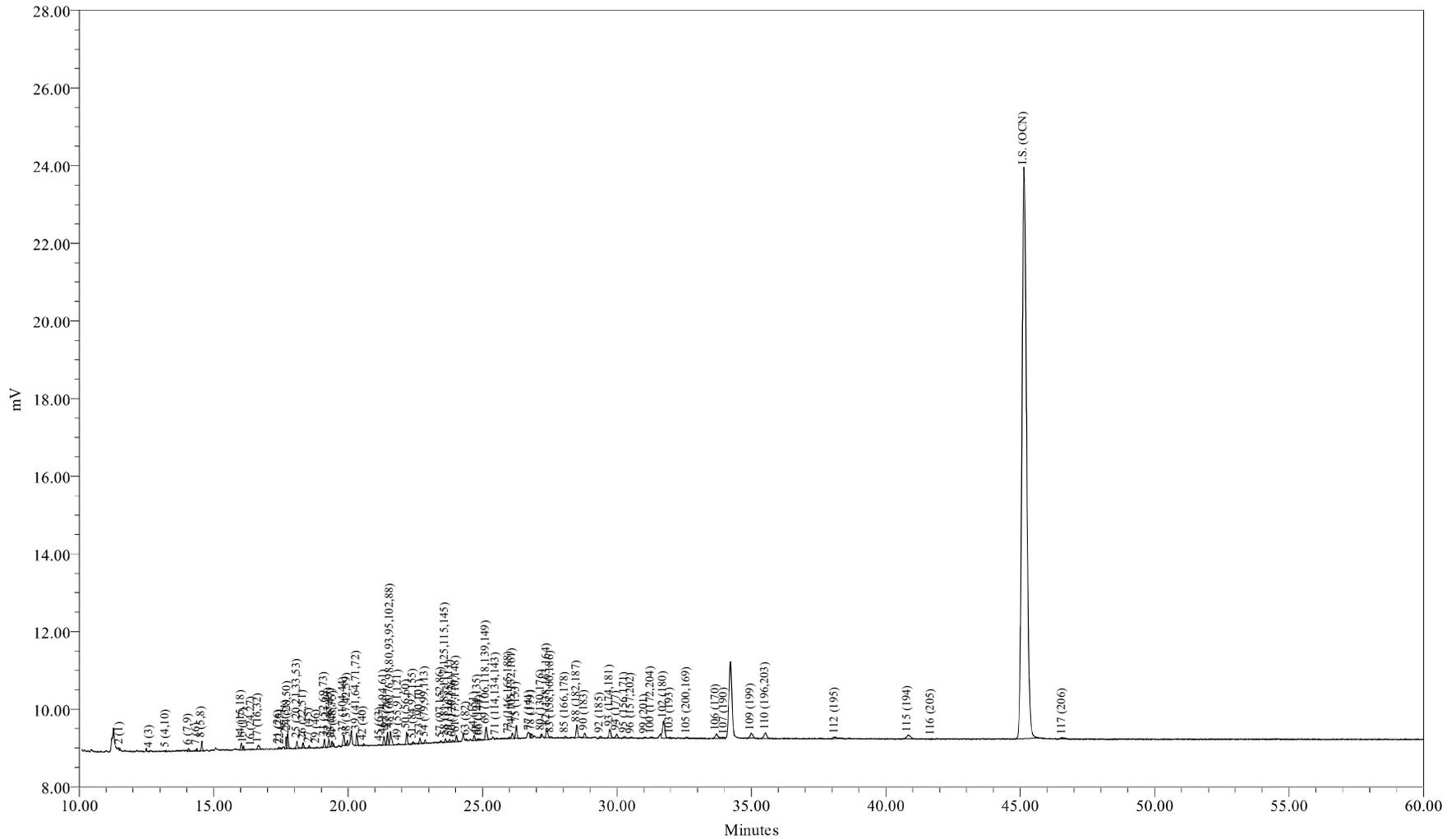
	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
5										
6										
Mean	0.485	0.936	1.206	0.812	0.712	1.237	0.856	0.720	0.798	5.438
Std. Dev.	0.021	0.144	0.124	0.049	0.036	0.126	0.070	0.034	0.044	0.147
% RSD	4.41	15.34	10.30	6.03	5.01	10.17	8.21	4.66	5.53	2.70

**Calibration Component Summary Table  
Component Summary For RF**

	98 (173)	99 (201)	100 (172,204)	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)
1		0.670499	0.631229		1.224296	0.842191		0.624688	1.851767	1.008457
2	0.892952	0.704940	0.820288	0.726577	1.132426	0.771522	0.703652	0.875987	1.712522	0.993642
3	0.819008	0.707871	0.727748	0.862621	0.990480	0.790672	0.653922	0.858551	1.511560	1.262601
4	0.896124	0.712298	0.710233	0.727239	0.890327	0.760039	0.786145	0.809713	1.435210	1.222102
5										
6										
Mean	0.869	0.699	0.722	0.772	1.059	0.791	0.715	0.792	1.628	1.122
Std. Dev.	0.044	0.019	0.078	0.078	0.148	0.036	0.067	0.115	0.190	0.140
% RSD	5.02	2.74	10.74	10.15	13.99	4.59	9.35	14.54	11.65	12.52

**Calibration Component Summary Table  
Component Summary For RF**

	108 (198)	109 (199)	110 (196,203)	111 (189)	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1		0.557200	0.649178		1.442023			1.437074	0.881475	1.375053	
2	1.134121	0.624276	0.680769	1.177062	1.488630	0.690467	1.220416	1.523766	0.935689	1.234533	0.990195
3	1.087743	0.568813	0.628030	1.194275	1.706941	0.543098	1.226410	1.394372	0.958610	1.328464	0.919208
4	1.159413	0.541891	0.599340	1.229916	1.639354	0.644593	1.150119	1.341483	1.007889	1.294099	0.982908
5											
6											
Mean	1.127	0.573	0.639	1.200	1.569	0.626	1.199	1.424	0.946	1.308	0.964
Std. Dev.	0.036	0.036	0.034	0.027	0.125	0.075	0.042	0.077	0.052	0.059	0.039
% RSD	3.22	6.26	5.37	2.25	7.94	12.05	3.54	5.41	5.55	4.52	4.05



Sample Name: ICAL0811A  
 Sample ID: ICAL 6.25 ng/mL  
 Date Acquired: 08/11/2009 14:49:17 EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_081109  
 LIMS File ID: GC24-I37-4



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0811A Sample Amount: 1  
 Sample ID: ICAL 6.25 ng/mL Dilution: 1  
 Date Acquired: 08/11/2009 14:49:17 EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 08/12/2009 02:32:45 EDT  
 Sample Set Name: GC24\_cc\_081109 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_081109 Current Date: 08/13/2009  
 Run Time: 60.0 Minutes Current Time: 02:19:12 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-137-4

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.513	98	0.439	0.439	0.022506
2	3 (2)	12.517				
3	4 (3)	12.621	32	0.256	0.256	0.012611
4	5 (4,10)	13.227	66	0.124	0.124	0.053510
5	6 (7,9)	14.064	208	0.044	0.044	0.475407
6	7 (6)	14.372	148	0.069	0.069	0.214204
7	8 (5,8)	14.553	603	0.512	0.512	0.118387
8	9 (14)	15.105				
9	10 (19)	15.179				
10	11 (30)	15.642				
11	12 (11)	15.706				
12	13 (12,13)	15.909				
13	14 (15,18)	16.027	525	0.135	0.135	0.389962
14	15 (17)	16.113	263	0.135	0.135	0.195707
15	16 (24,27)	16.405	51	0.009	0.009	0.536948
16	17 (16,32)	16.665	455	0.143	0.143	0.320563
17	19 (23,34,54)	17.115				
18	20 (29)	17.291				
19	21 (26)	17.427	95	0.026	0.026	0.361738
20	22 (25)	17.490	59	0.012	0.012	0.507612
21	23 (31)	17.700	744	0.151	0.151	0.495761
22	24 (28,50)	17.747	1116	0.193	0.193	0.581173
23	25 (20,21,33,53)	18.094	650	0.145	0.145	0.449775
24	26 (22,51)	18.326	385	0.106	0.106	0.364579
25	27 (45)	18.541	135	0.033	0.033	0.417043
26	28 (36)	18.691				
27	29 (46)	18.822	47	0.015	0.015	0.320074
28	30 (39)	18.951				

**Peak Results**

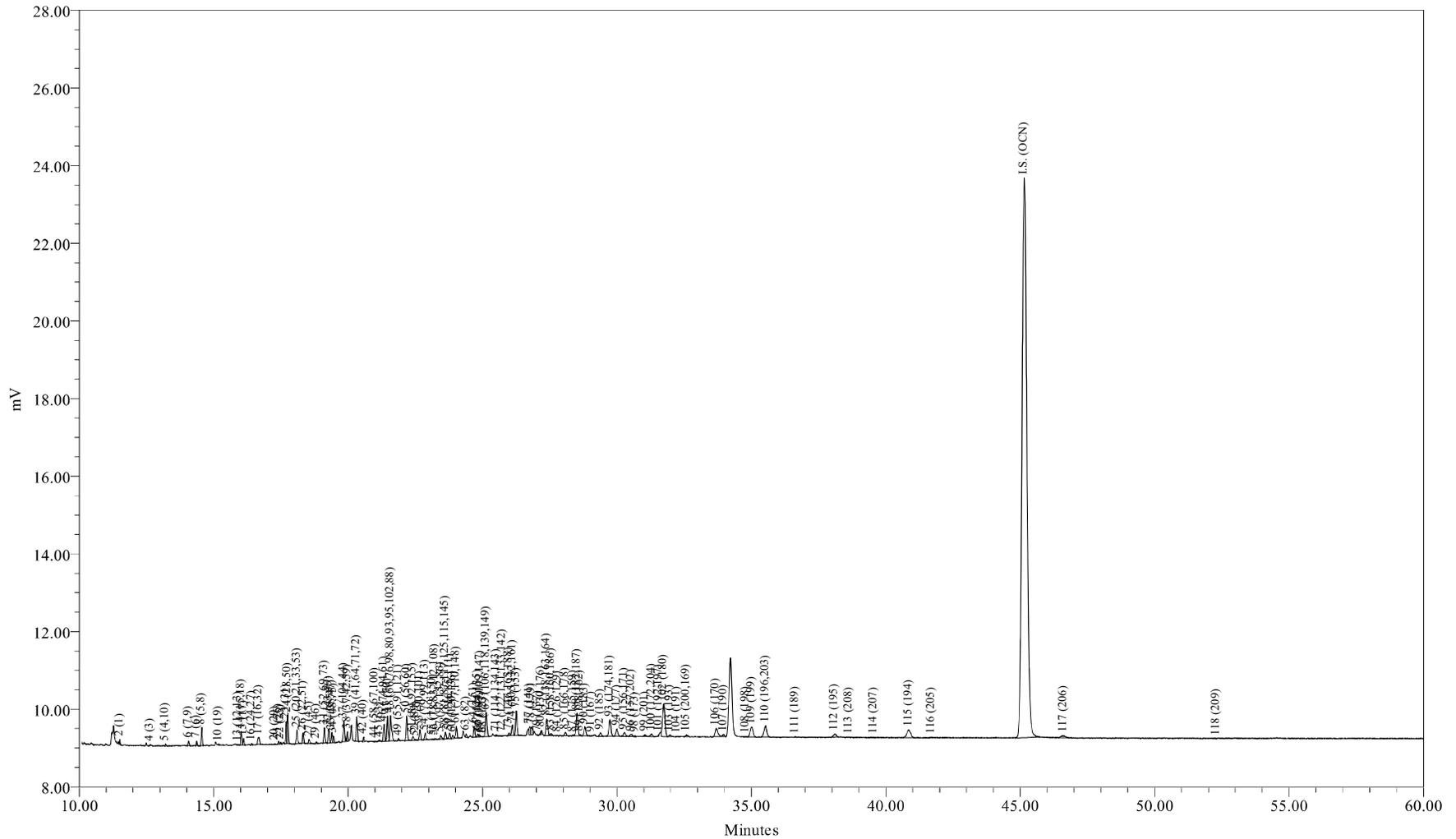
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.118	579	0.174	0.174	0.333738
30	32 (43,49)	19.282	565	0.084	0.084	0.675368
31	33 (38,47)	19.402	408	0.037	0.037	1.122532
32	34 (48,75)	19.454	211	0.037	0.037	0.580447
33	35 (62,65)	19.595				
34	36 (35)	19.680				
35	37 (104,44)	19.841	1046	0.157	0.157	0.668656
36	38 (37,42,59)	19.971	382	0.095	0.095	0.403941
37	39 (41,64,71,72)	20.321	963	0.150	0.150	0.645672
38	41 (68,96)	20.477				
39	42 (40)	20.580	154	0.034	0.034	0.451293
40	43 (57,103)	20.833				
41	44 (58,67,100)	21.006				
42	45 (63)	21.180	63	0.008	0.008	0.818880
43	46 (74,94,61)	21.328	709	0.069	0.069	1.026346
44	47 (70)	21.464	1031	0.124	0.124	0.833373
45	48 (66,76,98,80,93,95,102,88)	21.576	1455	0.263	0.263	0.555679
46	49 (55,91,121)	21.868	96	0.019	0.019	0.515567
47	50 (56,60)	22.181	1037	0.128	0.128	0.814421
48	51 (84,92,155)	22.418	196	0.066	0.066	0.299185
49	52 (89)	22.516				
50	53 (90,101)	22.675	449	0.066	0.066	0.686145
51	54 (79,99,113)	22.868	266	0.027	0.027	0.987307
52	55 (119,150)	23.143				
53	56 (78,83,112,108)	23.236				
54	57 (97,152,86)	23.448	186	0.020	0.020	0.912880
55	58 (81,87,117,125,115,145)	23.619	315	0.042	0.042	0.747467
56	59 (116,85,111)	23.777	219	0.026	0.026	0.860551
57	60 (120,136)	23.899	160	0.027	0.027	0.585787
58	61 (77,110,148)	24.028	560	0.078	0.078	0.723176
59	62 (154)	24.303				
60	63 (82)	24.391	102	0.016	0.016	0.639802
61	64 (151)	24.691	432	0.062	0.062	0.698501
62	65 (124,135)	24.819	116	0.011	0.011	1.095525
63	66 (144)	24.888	112	0.022	0.022	0.511996
64	67 (107,109,147)	24.952				
65	68 (123)	25.037				
66	69 (106,118,139,149)	25.134	1261	0.146	0.146	0.866505
67	70 (140)	25.242				
68	71 (114,134,143)	25.498	55	0.007	0.007	0.745133

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	25.720				
70	73 (146,165,188)	25.988	105	0.014	0.014	0.738717
71	74 (105,132,161)	26.106	513	0.050	0.050	1.039871
72	75 (153)	26.257	1123	0.108	0.108	1.047785
73	76 (127,168,184)	26.365				
74	77 (141)	26.752	343	0.062	0.062	0.553900
75	78 (179)	26.826	355	0.053	0.053	0.669092
76	79 (137)	27.030				
77	80 (130,176)	27.187	151	0.009	0.009	1.593089
78	82 (138,163,164)	27.398	1076	0.099	0.099	1.095412
79	83 (158,160,186)	27.536	98	0.009	0.009	1.077690
80	84 (126,129)	27.751				
81	85 (166,178)	28.081	162	0.040	0.040	0.404607
82	87 (175,159)	28.375				
83	88 (182,187)	28.510	1418	0.132	0.132	1.082770
84	89 (128,162)	28.628				
85	90 (183)	28.794	491	0.062	0.062	0.793854
86	91 (167)	29.056				
87	92 (185)	29.377	219	0.017	0.017	1.282175
88	93 (174,181)	29.734	1055	0.117	0.117	0.906371
89	94 (177)	29.982	429	0.062	0.062	0.693978
90	95 (156,171)	30.299	227	0.029	0.029	0.790301
91	96 (157,202)	30.526	132	0.002	0.002	5.482686
92	98 (173)	30.686				
93	99 (201)	31.036	95	0.014	0.014	0.670499
94	100 (172,204)	31.269	129	0.020	0.020	0.631229
95	101 (192,197)	31.530				
96	102 (180)	31.741	2717	0.223	0.223	1.224296
97	103 (193)	31.980	129	0.015	0.015	0.842191
98	104 (191)	32.264				
99	105 (200,169)	32.600	98	0.016	0.016	0.624688
100	106 (170)	33.697	862	0.047	0.047	1.851767
101	107 (190)	33.992	154	0.015	0.015	1.008457
102	108 (198)	34.770				
103	109 (199)	34.988	851	0.154	0.154	0.557200
104	110 (196,203)	35.524	1015	0.157	0.157	0.649178
105	111 (189)	36.642				
106	112 (195)	38.112	290	0.020	0.020	1.442023
107	113 (208)	38.594				
108	114 (207)	39.486				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	40.822	941	0.066	0.066	1.437074
110	116 (205)	41.690	35	0.004	0.004	0.881475
111	I.S. (OCN)	45.135	180957	18.180	18.180	9953.615190
112	117 (206)	46.571	340	0.025	0.025	1.375053
113	118 (209)	52.297				



Sample Name: ICAL0811B  
Sample ID: ICAL 12.5 ng/mL  
Date Acquired: 08/11/2009 15:54:46 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-T37-5

Sample Name: ICAL0811B

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0811B Sample Amount: 1  
 Sample ID: ICAL 12.5 ng/mL Dilution: 1  
 Date Acquired: 08/11/2009 15:54:46 EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 08/12/2009 02:33:11 EDT  
 Sample Set Name: GC24\_cc\_081109 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_081109 Current Date: 08/13/2009  
 Run Time: 60.0 Minutes Current Time: 02:18:07 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-137-5

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.513	218	0.877	0.877	0.024845
2	3 (2)	12.517				
3	4 (3)	12.633	60	0.512	0.512	0.011724
4	5 (4,10)	13.213	141	0.249	0.249	0.056623
5	6 (7,9)	14.064	361	0.088	0.088	0.410442
6	7 (6)	14.365	273	0.139	0.139	0.196355
7	8 (5,8)	14.554	1172	1.023	1.023	0.114238
8	9 (14)	15.105				
9	10 (19)	15.176	71	0.020	0.020	0.345485
10	11 (30)	15.642				
11	12 (11)	15.706				
12	13 (12,13)	15.908	51	0.020	0.020	0.261084
13	14 (15,18)	16.030	928	0.270	0.270	0.342200
14	15 (17)	16.114	479	0.270	0.270	0.176479
15	16 (24,27)	16.422	99	0.019	0.019	0.519764
16	17 (16,32)	16.688	771	0.285	0.285	0.269913
17	19 (23,34,54)	17.115				
18	20 (29)	17.277	23	0.004	0.004	0.583823
19	21 (26)	17.416	175	0.053	0.053	0.331241
20	22 (25)	17.491	111	0.023	0.023	0.471332
21	23 (31)	17.700	1374	0.301	0.301	0.454631
22	24 (28,50)	17.749	2169	0.386	0.386	0.560961
23	25 (20,21,33,53)	18.097	1202	0.290	0.290	0.412996
24	26 (22,51)	18.325	774	0.212	0.212	0.364394
25	27 (45)	18.544	276	0.065	0.065	0.422765
26	28 (36)	18.691				
27	29 (46)	18.818	97	0.029	0.029	0.331875
28	30 (39)	18.951				

**Peak Results**

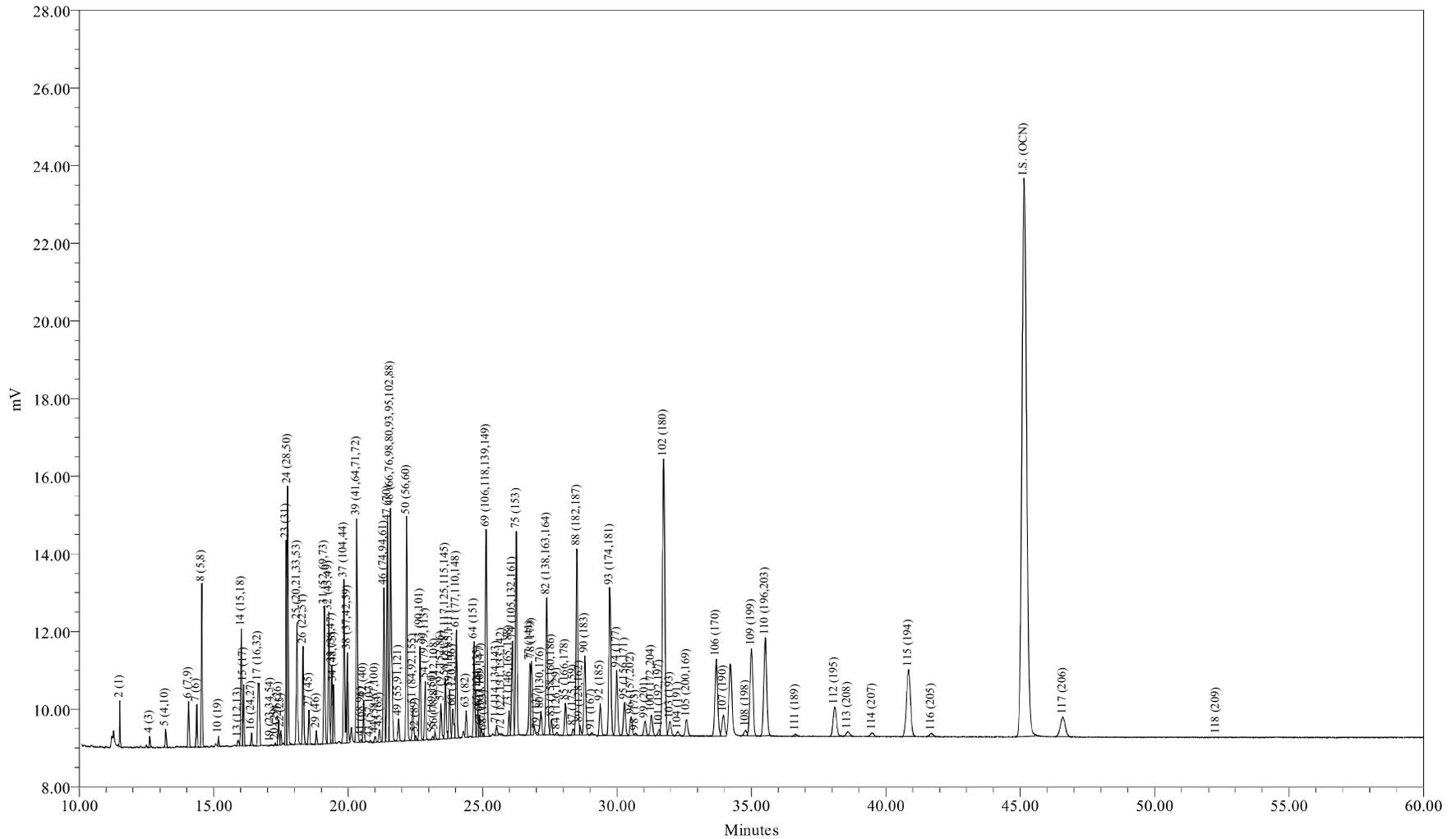
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.119	1147	0.349	0.349	0.328004
30	32 (43,49)	19.282	1142	0.168	0.168	0.677694
31	33 (38,47)	19.400	811	0.073	0.073	1.106880
32	34 (48,75)	19.456	481	0.073	0.073	0.656211
33	35 (62,65)	19.595				
34	36 (35)	19.680				
35	37 (104,44)	19.844	1868	0.314	0.314	0.592719
36	38 (37,42,59)	19.977	733	0.190	0.190	0.384697
37	39 (41,64,71,72)	20.321	1945	0.300	0.300	0.647415
38	41 (68,96)	20.477				
39	42 (40)	20.579	346	0.069	0.069	0.502305
40	43 (57,103)	20.833				
41	44 (58,67,100)	20.986	59	0.008	0.008	0.734607
42	45 (63)	21.168	131	0.015	0.015	0.851310
43	46 (74,94,61)	21.333	1405	0.139	0.139	1.009110
44	47 (70)	21.463	2014	0.249	0.249	0.808354
45	48 (66,76,98,80,93,95,102,88)	21.580	2830	0.526	0.526	0.536275
46	49 (55,91,121)	21.874	178	0.037	0.037	0.475657
47	50 (56,60)	22.181	2011	0.256	0.256	0.784212
48	51 (84,92,155)	22.410	361	0.132	0.132	0.273492
49	52 (89)	22.514	41	0.007	0.007	0.564204
50	53 (90,101)	22.674	856	0.132	0.132	0.649184
51	54 (79,99,113)	22.866	512	0.054	0.054	0.943189
52	55 (119,150)	23.141	26	0.002	0.002	1.259268
53	56 (78,83,112,108)	23.232	52	0.011	0.011	0.471677
54	57 (97,152,86)	23.445	352	0.041	0.041	0.858913
55	58 (81,87,117,125,115,145)	23.622	636	0.085	0.085	0.748416
56	59 (116,85,111)	23.776	443	0.051	0.051	0.862650
57	60 (120,136)	23.888	283	0.055	0.055	0.515251
58	61 (77,110,148)	24.027	1054	0.156	0.156	0.675030
59	62 (154)	24.303				
60	63 (82)	24.391	273	0.032	0.032	0.845563
61	64 (151)	24.685	903	0.124	0.124	0.724910
62	65 (124,135)	24.821	225	0.021	0.021	1.060392
63	66 (144)	24.871	195	0.044	0.044	0.443804
64	67 (107,109,147)	24.928	63	0.009	0.009	0.660016
65	68 (123)	25.036	27			
66	69 (106,118,139,149)	25.132	2505	0.292	0.292	0.854624
67	70 (140)	25.242				
68	71 (114,134,143)	25.518	103	0.015	0.015	0.695447

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	25.736	20	0.002	0.002	0.951238
70	73 (146,165,188)	25.988	216	0.029	0.029	0.755001
71	74 (105,132,161)	26.111	1021	0.099	0.099	1.028118
72	75 (153)	26.257	2210	0.215	0.215	1.023827
73	76 (127,168,184)	26.365				
74	77 (141)	26.758	764	0.124	0.124	0.612926
75	78 (179)	26.826	751	0.107	0.107	0.701951
76	79 (137)	27.043	27	0.005	0.005	0.490216
77	80 (130,176)	27.182	247	0.019	0.019	1.296452
78	82 (138,163,164)	27.393	2029	0.197	0.197	1.025215
79	83 (158,160,186)	27.561	217	0.018	0.018	1.184547
80	84 (126,129)	27.782	29	0.001	0.001	3.023072
81	85 (166,178)	28.077	341	0.080	0.080	0.423339
82	87 (175,159)	28.369	75	0.015	0.015	0.508662
83	88 (182,187)	28.514	2715	0.263	0.263	1.029095
84	89 (128,162)	28.631	96	0.007	0.007	1.313668
85	90 (183)	28.804	1096	0.124	0.124	0.879694
86	91 (167)	29.056	24	0.004	0.004	0.673017
87	92 (185)	29.386	479	0.034	0.034	1.390694
88	93 (174,181)	29.737	2153	0.234	0.234	0.918087
89	94 (177)	29.998	949	0.124	0.124	0.761617
90	95 (156,171)	30.276	494	0.058	0.058	0.853820
91	96 (157,202)	30.538	267	0.005	0.005	5.515629
92	98 (173)	30.678	25	0.003	0.003	0.892952
93	99 (201)	31.041	202	0.029	0.029	0.704940
94	100 (172,204)	31.293	337	0.041	0.041	0.820288
95	101 (192,197)	31.563	59	0.008	0.008	0.726577
96	102 (180)	31.740	5063	0.446	0.446	1.132426
97	103 (193)	31.964	237	0.031	0.031	0.771522
98	104 (191)	32.232	62	0.009	0.009	0.703652
99	105 (200,169)	32.584	276	0.031	0.031	0.875987
100	106 (170)	33.693	1606	0.094	0.094	1.712522
101	107 (190)	33.967	306	0.031	0.031	0.993642
102	108 (198)	34.793	100	0.009	0.009	1.134121
103	109 (199)	35.011	1922	0.307	0.307	0.624276
104	110 (196,203)	35.526	2145	0.314	0.314	0.680769
105	111 (189)	36.636	34	0.003	0.003	1.177062
106	112 (195)	38.089	603	0.040	0.040	1.488630
107	113 (208)	38.633	125	0.018	0.018	0.690467
108	114 (207)	39.563	83	0.007	0.007	1.220416

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	40.857	2010	0.132	0.132	1.523766
110	116 (205)	41.710	75	0.008	0.008	0.935689
111	I.S. (OCN)	45.146	182277	18.180	18.180	10026.223359
112	117 (206)	46.613	615	0.050	0.050	1.234533
113	118 (209)	52.294	9	0.001	0.001	0.990195



Sample Name: ICAL0811C  
Sample ID: ICAL 125 ng/mL  
Date Acquired: 08/11/2009 17:00:14 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-T37-6

Sample Name: ICAL0811C

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0811C Sample Amount: 1  
 Sample ID: ICAL 125 ng/mL Dilution: 1  
 Date Acquired: 08/11/2009 17:00:14 EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 08/12/2009 02:31:15 EDT  
 Sample Set Name: GC24\_cc\_081109 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_081109 Current Date: 08/13/2009  
 Run Time: 60.0 Minutes Current Time: 02:18:10 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-137-6

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.512	2105	8.771	8.771	0.024547
2	3 (2)	12.517				
3	4 (3)	12.622	601	5.117	5.117	0.012023
4	5 (4,10)	13.213	1354	2.485	2.485	0.055715
5	6 (7,9)	14.063	3440	0.877	0.877	0.401204
6	7 (6)	14.366	2619	1.389	1.389	0.192854
7	8 (5,8)	14.552	10561	10.233	10.233	0.105552
8	9 (14)	15.105				
9	10 (19)	15.180	622	0.205	0.205	0.310728
10	11 (30)	15.642				
11	12 (11)	15.706				
12	13 (12,13)	15.908	511	0.195	0.195	0.268109
13	14 (15,18)	16.028	8588	2.704	2.704	0.324775
14	15 (17)	16.114	4401	2.704	2.704	0.166452
15	16 (24,27)	16.407	949	0.190	0.190	0.510988
16	17 (16,32)	16.659	7858	2.851	2.851	0.281933
17	19 (23,34,54)	17.113	88			
18	20 (29)	17.294	190	0.039	0.039	0.499750
19	21 (26)	17.418	1853	0.526	0.526	0.360154
20	22 (25)	17.500	1085	0.234	0.234	0.474475
21	23 (31)	17.698	13554	3.014	3.014	0.460004
22	24 (28,50)	17.746	19292	3.857	3.857	0.511538
23	25 (20,21,33,53)	18.094	10907	2.903	2.903	0.384216
24	26 (22,51)	18.323	7443	2.120	2.120	0.359114
25	27 (45)	18.545	2564	0.650	0.650	0.403124
26	28 (36)	18.691				
27	29 (46)	18.818	961	0.292	0.292	0.336235
28	30 (39)	18.951				

**Peak Results**

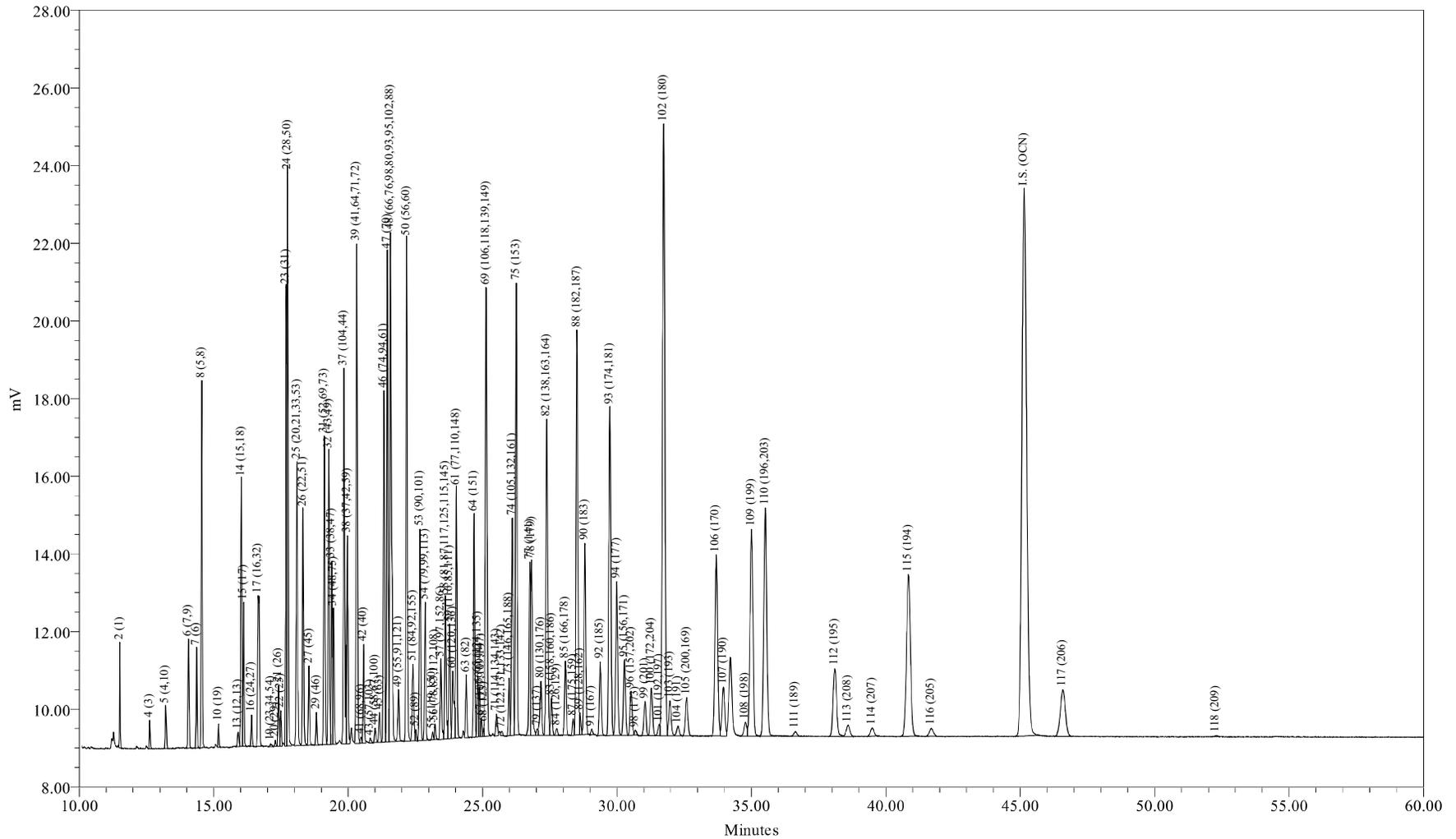
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.116	10581	3.487	3.487	0.310392
30	32 (43,49)	19.281	10082	1.681	1.681	0.613354
31	33 (38,47)	19.395	6179	0.731	0.731	0.864499
32	34 (48,75)	19.457	4268	0.731	0.731	0.597081
33	35 (62,65)	19.595				
34	36 (35)	19.680				
35	37 (104,44)	19.844	15236	3.143	3.143	0.495764
36	38 (37,42,59)	19.973	6958	1.901	1.901	0.374437
37	39 (41,64,71,72)	20.318	18316	2.997	2.997	0.625087
38	41 (68,96)	20.485	226			
39	42 (40)	20.580	3335	0.687	0.687	0.496491
40	43 (57,103)	20.829	186			
41	44 (58,67,100)	21.002	561	0.080	0.080	0.713356
42	45 (63)	21.160	1058	0.154	0.154	0.704625
43	46 (74,94,61)	21.330	12371	1.389	1.389	0.911070
44	47 (70)	21.461	17857	2.485	2.485	0.734910
45	48 (66,76,98,80,93,95,102,88)	21.577	25175	5.263	5.263	0.489256
46	49 (55,91,121)	21.872	1953	0.373	0.373	0.535723
47	50 (56,60)	22.179	18332	2.558	2.558	0.732876
48	51 (84,92,155)	22.408	3527	1.316	1.316	0.274143
49	52 (89)	22.511	371	0.073	0.073	0.518941
50	53 (90,101)	22.673	7864	1.316	1.316	0.611346
51	54 (79,99,113)	22.867	4946	0.541	0.541	0.935265
52	55 (119,150)	23.145	261	0.020	0.020	1.303885
53	56 (78,83,112,108)	23.236	525	0.110	0.110	0.489920
54	57 (97,152,86)	23.449	3115	0.409	0.409	0.778354
55	58 (81,87,117,125,115,145)	23.621	5580	0.848	0.848	0.673077
56	59 (116,85,111)	23.774	4088	0.512	0.512	0.817106
57	60 (120,136)	23.894	3331	0.548	0.548	0.621483
58	61 (77,110,148)	24.028	9382	1.557	1.557	0.616320
59	62 (154)	24.303				
60	63 (82)	24.391	2255	0.322	0.322	0.717334
61	64 (151)	24.685	8088	1.243	1.243	0.665733
62	65 (124,135)	24.821	2237	0.212	0.212	1.079187
63	66 (144)	24.882	1849	0.439	0.439	0.431113
64	67 (107,109,147)	24.953	597	0.095	0.095	0.642454
65	68 (123)	25.045	175			
66	69 (106,118,139,149)	25.131	21773	2.924	2.924	0.761622
67	70 (140)	25.242				
68	71 (114,134,143)	25.519	1029	0.148	0.148	0.713120

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	25.714	181	0.021	0.021	0.868391
70	73 (146,165,188)	25.988	2257	0.285	0.285	0.809506
71	74 (105,132,161)	26.109	9565	0.990	0.990	0.987796
72	75 (153)	26.257	19602	2.153	2.153	0.931266
73	76 (127,168,184)	26.365				
74	77 (141)	26.764	7331	1.243	1.243	0.603373
75	78 (179)	26.823	7198	1.067	1.067	0.689791
76	79 (137)	27.026	277	0.055	0.055	0.517765
77	80 (130,176)	27.172	2940	0.190	0.190	1.583160
78	82 (138,163,164)	27.390	16988	1.974	1.974	0.880352
79	83 (158,160,186)	27.565	1686	0.183	0.183	0.943792
80	84 (126,129)	27.767	273	0.009	0.009	2.954035
81	85 (166,178)	28.082	3537	0.804	0.804	0.449941
82	87 (175,159)	28.371	669	0.146	0.146	0.467996
83	88 (182,187)	28.512	22083	2.631	2.631	0.858308
84	89 (128,162)	28.623	882	0.073	0.073	1.234614
85	90 (183)	28.804	9819	1.243	1.243	0.808168
86	91 (167)	29.055	260	0.036	0.036	0.742741
87	92 (185)	29.381	3936	0.343	0.343	1.172021
88	93 (174,181)	29.734	18995	2.339	2.339	0.830602
89	94 (177)	29.988	8901	1.243	1.243	0.732640
90	95 (156,171)	30.281	4534	0.578	0.578	0.802906
91	96 (157,202)	30.527	2611	0.048	0.048	5.532509
92	98 (173)	30.689	222	0.028	0.028	0.819008
93	99 (201)	31.044	1973	0.285	0.285	0.707871
94	100 (172,204)	31.279	2912	0.409	0.409	0.727748
95	101 (192,197)	31.577	678	0.080	0.080	0.862621
96	102 (180)	31.737	43180	4.459	4.459	0.990480
97	103 (193)	31.973	2373	0.307	0.307	0.790672
98	104 (191)	32.271	561	0.088	0.088	0.653922
99	105 (200,169)	32.590	2638	0.314	0.314	0.858551
100	106 (170)	33.696	13827	0.936	0.936	1.511560
101	107 (190)	33.957	3790	0.307	0.307	1.262601
102	108 (198)	34.785	933	0.088	0.088	1.087743
103	109 (199)	34.998	17074	3.070	3.070	0.568813
104	110 (196,203)	35.519	19300	3.143	3.143	0.628030
105	111 (189)	36.652	341	0.029	0.029	1.194275
106	112 (195)	38.097	6745	0.404	0.404	1.706941
107	113 (208)	38.580	958	0.180	0.180	0.543098
108	114 (207)	39.495	815	0.068	0.068	1.226410

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	40.844	17937	1.316	1.316	1.394372
110	116 (205)	41.704	754	0.080	0.080	0.958610
111	I.S. (OCN)	45.144	177753	18.180	18.180	9777.397291
112	117 (206)	46.589	6455	0.497	0.497	1.328464
113	118 (209)	52.289	80	0.009	0.009	0.919208



Sample Name: ICAL0811D  
Sample ID: ICAL 314 ng/mL  
Date Acquired: 08/11/2009 18:05:44 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-T37-7



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0811D Sample Amount: 1  
 Sample ID: ICAL 314 ng/mL Dilution: 1  
 Date Acquired: 08/11/2009 18:05:44 EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 08/12/2009 02:31:20 EDT  
 Sample Set Name: GC24\_cc\_081109 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_081109 Current Date: 08/13/2009  
 Run Time: 60.0 Minutes Current Time: 02:18:14 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-137-7

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.512	4902	21.928	21.928	0.022972
2	3 (2)	12.517				
3	4 (3)	12.620	1517	12.792	12.792	0.012187
4	5 (4,10)	13.213	3364	6.213	6.213	0.055640
5	6 (7,9)	14.062	8053	2.193	2.193	0.377393
6	7 (6)	14.366	6143	3.472	3.472	0.181809
7	8 (5,8)	14.552	24237	25.583	25.583	0.097348
8	9 (14)	15.105				
9	10 (19)	15.180	1475	0.512	0.512	0.296040
10	11 (30)	15.642				
11	12 (11)	15.706				
12	13 (12,13)	15.907	1287	0.488	0.488	0.271081
13	14 (15,18)	16.028	20177	6.761	6.761	0.306637
14	15 (17)	16.114	10146	6.761	6.761	0.154193
15	16 (24,27)	16.410	2262	0.475	0.475	0.489412
16	17 (16,32)	16.657	18450	7.127	7.127	0.266013
17	19 (23,34,54)	17.117	308			
18	20 (29)	17.290	483	0.097	0.097	0.511335
19	21 (26)	17.418	4464	1.316	1.316	0.348593
20	22 (25)	17.499	2630	0.585	0.585	0.462104
21	23 (31)	17.696	30371	7.534	7.534	0.414211
22	24 (28,50)	17.746	44604	9.643	9.643	0.475295
23	25 (20,21,33,53)	18.093	25919	7.258	7.258	0.366934
24	26 (22,51)	18.322	18232	5.300	5.300	0.353510
25	27 (45)	18.545	6160	1.626	1.626	0.389266
26	28 (36)	18.691				
27	29 (46)	18.818	2393	0.731	0.731	0.336401
28	30 (39)	18.951				

**Peak Results**

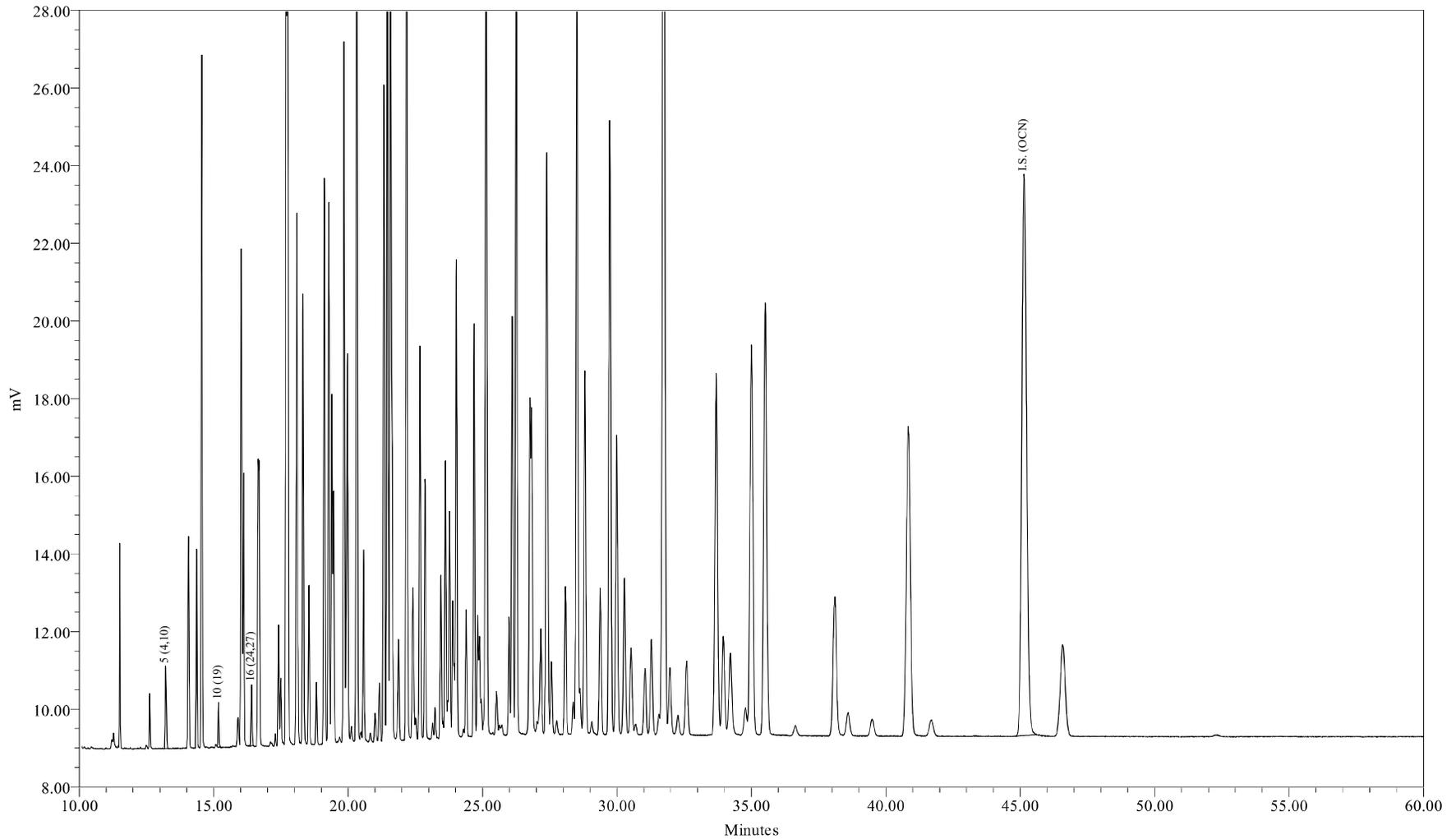
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.115	24101	8.716	8.716	0.284113
30	32 (43,49)	19.281	23347	4.203	4.203	0.570778
31	33 (38,47)	19.394	14252	1.828	1.828	0.801317
32	34 (48,75)	19.457	10290	1.828	1.828	0.578533
33	35 (62,65)	19.595				
34	36 (35)	19.680				
35	37 (104,44)	19.843	33594	7.858	7.858	0.439301
36	38 (37,42,59)	19.973	17284	4.751	4.751	0.373784
37	39 (41,64,71,72)	20.318	41897	7.492	7.492	0.574602
38	41 (68,96)	20.477	575			
39	42 (40)	20.577	7968	1.718	1.718	0.476644
40	43 (57,103)	20.826	445			
41	44 (58,67,100)	21.006	1295	0.201	0.201	0.661887
42	45 (63)	21.162	2443	0.384	0.384	0.654212
43	46 (74,94,61)	21.330	28642	3.472	3.472	0.847660
44	47 (70)	21.459	40476	6.213	6.213	0.669429
45	48 (66,76,98,80,93,95,102,88)	21.575	57471	13.157	13.157	0.448847
46	49 (55,91,121)	21.872	4645	0.932	0.932	0.512118
47	50 (56,60)	22.178	42857	6.396	6.396	0.688546
48	51 (84,92,155)	22.410	8283	3.289	3.289	0.258755
49	52 (89)	22.515	860	0.183	0.183	0.483275
50	53 (90,101)	22.673	18186	3.289	3.289	0.568132
51	54 (79,99,113)	22.866	11564	1.352	1.352	0.878719
52	55 (119,150)	23.141	618	0.051	0.051	1.239188
53	56 (78,83,112,108)	23.236	1239	0.274	0.274	0.464958
54	57 (97,152,86)	23.447	7333	1.023	1.023	0.736414
55	58 (81,87,117,125,115,145)	23.621	13085	2.120	2.120	0.634278
56	59 (116,85,111)	23.772	9840	1.279	1.279	0.790310
57	60 (120,136)	23.892	8053	1.370	1.370	0.603789
58	61 (77,110,148)	24.026	21732	3.892	3.892	0.573734
59	62 (154)	24.303				
60	63 (82)	24.391	5359	0.804	0.804	0.684927
61	64 (151)	24.685	18901	3.106	3.106	0.625208
62	65 (124,135)	24.820	5206	0.530	0.530	1.009153
63	66 (144)	24.883	4342	1.097	1.097	0.406851
64	67 (107,109,147)	24.952	1359	0.237	0.237	0.588043
65	68 (123)	25.055	463			
66	69 (106,118,139,149)	25.132	48462	7.309	7.309	0.681262
67	70 (140)	25.242				
68	71 (114,134,143)	25.517	2609	0.369	0.369	0.726710

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	25.719	480	0.053	0.053	0.926589
70	73 (146,165,188)	25.988	5232	0.713	0.713	0.754228
71	74 (105,132,161)	26.105	22707	2.476	2.476	0.942369
72	75 (153)	26.257	43492	5.382	5.382	0.830383
73	76 (127,168,184)	26.365				
74	77 (141)	26.762	16720	3.106	3.106	0.553069
75	78 (179)	26.825	17307	2.668	2.668	0.666533
76	79 (137)	27.038	616	0.137	0.137	0.462563
77	80 (130,176)	27.174	6671	0.475	0.475	1.443515
78	82 (138,163,164)	27.390	39061	4.964	4.964	0.808544
79	83 (158,160,186)	27.561	4103	0.457	0.457	0.923316
80	84 (126,129)	27.759	736	0.024	0.024	3.197932
81	85 (166,178)	28.082	8243	2.010	2.010	0.421441
82	87 (175,159)	28.369	1697	0.366	0.366	0.477014
83	88 (182,187)	28.512	49669	6.578	6.578	0.775827
84	89 (128,162)	28.627	1903	0.183	0.183	1.070092
85	90 (183)	28.803	23109	3.106	3.106	0.764387
86	91 (167)	29.057	629	0.090	0.090	0.721404
87	92 (185)	29.380	9227	0.859	0.859	1.104180
88	93 (174,181)	29.734	43692	5.847	5.847	0.767792
89	94 (177)	29.990	20910	3.106	3.106	0.691662
90	95 (156,171)	30.279	10490	1.444	1.444	0.746506
91	96 (157,202)	30.529	6131	0.121	0.121	5.219795
92	98 (173)	30.679	606	0.069	0.069	0.896124
93	99 (201)	31.041	4941	0.713	0.713	0.712298
94	100 (172,204)	31.280	7072	1.023	1.023	0.710233
95	101 (192,197)	31.575	1422	0.201	0.201	0.727239
96	102 (180)	31.737	96585	11.147	11.147	0.890327
97	103 (193)	31.968	5677	0.768	0.768	0.760039
98	104 (191)	32.264	1677	0.219	0.219	0.786145
99	105 (200,169)	32.592	6192	0.786	0.786	0.809713
100	106 (170)	33.690	32669	2.339	2.339	1.435210
101	107 (190)	33.957	9128	0.768	0.768	1.222102
102	108 (198)	34.773	2473	0.219	0.219	1.159413
103	109 (199)	35.000	40475	7.675	7.675	0.541891
104	110 (196,203)	35.519	45832	7.858	7.858	0.599340
105	111 (189)	36.635	873	0.073	0.073	1.229916
106	112 (195)	38.102	16119	1.010	1.010	1.639354
107	113 (208)	38.589	2831	0.451	0.451	0.644593
108	114 (207)	39.487	1902	0.170	0.170	1.150119

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	40.834	42942	3.289	3.289	1.341483
110	116 (205)	41.683	1971	0.201	0.201	1.007889
111	I.S. (OCN)	45.144	176927	18.180	18.180	9731.945318
112	117 (206)	46.580	15647	1.242	1.242	1.294099
113	118 (209)	52.274	212	0.022	0.022	0.982908



Sample Name: ICAL0811E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 08/11/2009 19:11:11 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGP\_LL1X\_081109  
LIMS File ID: GC24-T37-8

Sample Name: ICAL0811E

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0811E Sample Amount: 1  
 Sample ID: ICAL 627 ng/mL Dilution: 1  
 Date Acquired: 08/11/2009 19:11:11 EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 08/12/2009 02:31:23 EDT  
 Sample Set Name: GC24\_cc\_081109 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_081109 Current Date: 08/13/2009  
 Run Time: 60.0 Minutes Current Time: 02:18:17 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-137-8

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.512				
2	3 (2)	12.517				
3	4 (3)	12.621				
4	5 (4,10)	13.212	6568	12.426	12.426	0.052448
5	6 (7,9)	14.061				
6	7 (6)	14.366				
7	8 (5,8)	14.552				
8	9 (14)	15.105				
9	10 (19)	15.179	2917	1.024	1.024	0.282742
10	11 (30)	15.642				
11	12 (11)	15.706				
12	13 (12,13)	15.909				
13	14 (15,18)	16.028				
14	15 (17)	16.113				
15	16 (24,27)	16.409	4442	0.950	0.950	0.464044
16	17 (16,32)	16.658				
17	19 (23,34,54)	17.115				
18	20 (29)	17.291				
19	21 (26)	17.417				
20	22 (25)	17.500				
21	23 (31)	17.695				
22	24 (28,50)	17.746				
23	25 (20,21,33,53)	18.092				
24	26 (22,51)	18.321				
25	27 (45)	18.546				
26	28 (36)	18.691				
27	29 (46)	18.815				
28	30 (39)	18.951				

**Peak Results**

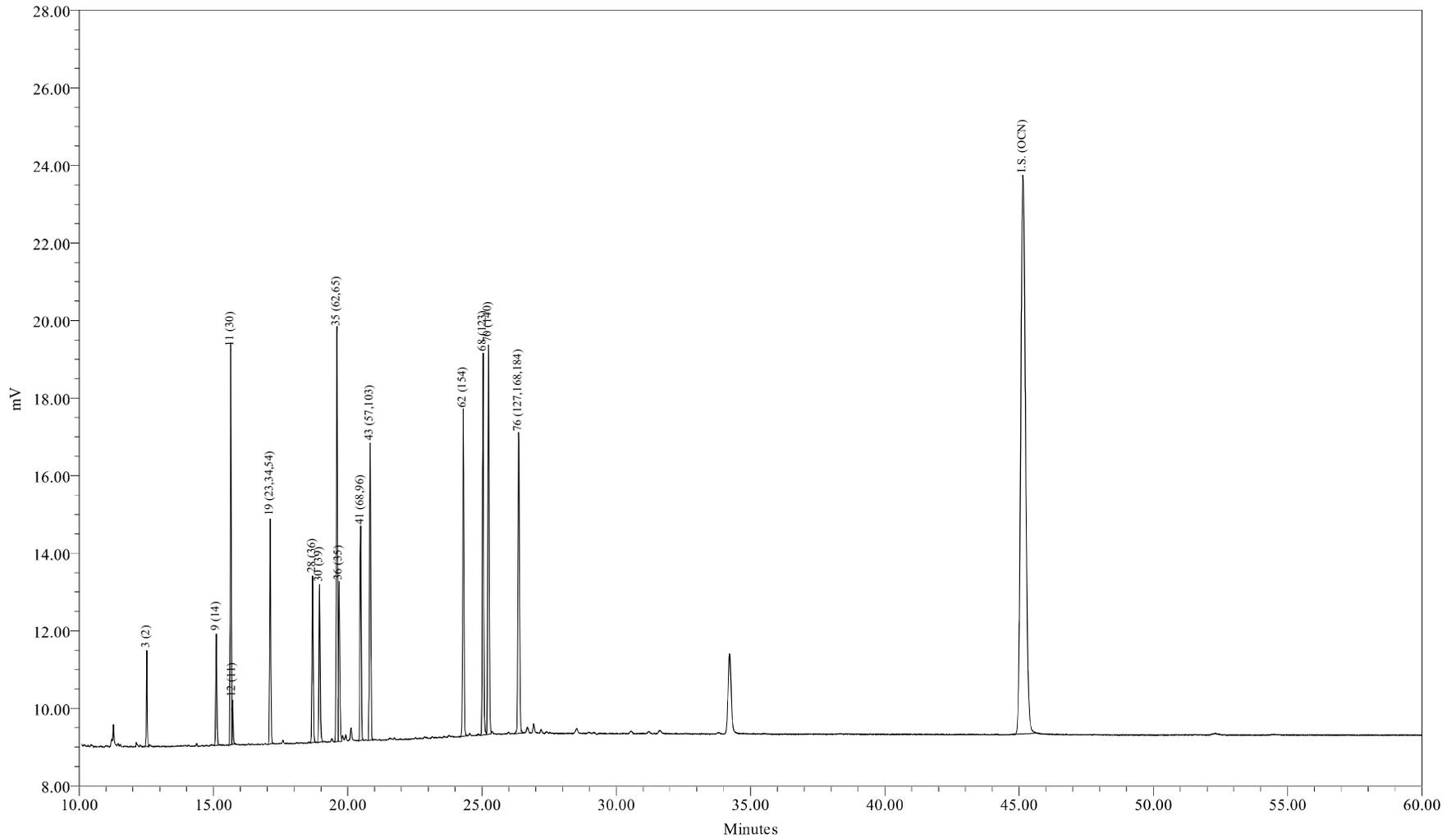
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.114				
30	32 (43,49)	19.282				
31	33 (38,47)	19.393				
32	34 (48,75)	19.458				
33	35 (62,65)	19.595				
34	36 (35)	19.680				
35	37 (104,44)	19.843				
36	38 (37,42,59)	19.972				
37	39 (41,64,71,72)	20.319				
38	41 (68,96)	20.477				
39	42 (40)	20.577				
40	43 (57,103)	20.833				
41	44 (58,67,100)	21.006				
42	45 (63)	21.163				
43	46 (74,94,61)	21.328				
44	47 (70)	21.457				
45	48 (66,76,98,80,93,95,102,88)	21.574				
46	49 (55,91,121)	21.874				
47	50 (56,60)	22.178				
48	51 (84,92,155)	22.411				
49	52 (89)	22.516				
50	53 (90,101)	22.673				
51	54 (79,99,113)	22.865				
52	55 (119,150)	23.143				
53	56 (78,83,112,108)	23.236				
54	57 (97,152,86)	23.447				
55	58 (81,87,117,125,115,145)	23.619				
56	59 (116,85,111)	23.773				
57	60 (120,136)	23.892				
58	61 (77,110,148)	24.025				
59	62 (154)	24.303				
60	63 (82)	24.391				
61	64 (151)	24.685				
62	65 (124,135)	24.820				
63	66 (144)	24.885				
64	67 (107,109,147)	24.952				
65	68 (123)	25.037				
66	69 (106,118,139,149)	25.134				
67	70 (140)	25.242				
68	71 (114,134,143)	25.522				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	25.720				
70	73 (146,165,188)	25.989				
71	74 (105,132,161)	26.104				
72	75 (153)	26.258				
73	76 (127,168,184)	26.365				
74	77 (141)	26.762				
75	78 (179)	26.823				
76	79 (137)	27.030				
77	80 (130,176)	27.171				
78	82 (138,163,164)	27.390				
79	83 (158,160,186)	27.562				
80	84 (126,129)	27.751				
81	85 (166,178)	28.081				
82	87 (175,159)	28.375				
83	88 (182,187)	28.511				
84	89 (128,162)	28.628				
85	90 (183)	28.808				
86	91 (167)	29.056				
87	92 (185)	29.376				
88	93 (174,181)	29.730				
89	94 (177)	29.989				
90	95 (156,171)	30.274				
91	96 (157,202)	30.531				
92	98 (173)	30.686				
93	99 (201)	31.045				
94	100 (172,204)	31.275				
95	101 (192,197)	31.530				
96	102 (180)	31.725				
97	103 (193)	31.972				
98	104 (191)	32.264				
99	105 (200,169)	32.590				
100	106 (170)	33.696				
101	107 (190)	33.961				
102	108 (198)	34.770				
103	109 (199)	34.995				
104	110 (196,203)	35.517				
105	111 (189)	36.642				
106	112 (195)	38.096				
107	113 (208)	38.594				
108	114 (207)	39.486				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	40.838				
110	116 (205)	41.669				
111	I.S. (OCN)	45.138	183233	18.180	18.180	10078.820290
112	117 (206)	46.568				
113	118 (209)	52.297				



Sample Name: SC0811A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 08/11/2009 21:22:27 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-T37-10

Sample Name: SC0811A

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: SC0811A Sample Amount: 1  
 Sample ID: SUP CONG STD 200/5 ng/mL Dilution: 1  
 Date Acquired: 08/11/2009 21:22:27 EDT Extract Volume: 1  
 Project Name: GC24\_Mar\_2009 Date Processed: 08/12/2009 02:31:28 EDT  
 Sample Set Name: GC24\_cc\_081109 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_081109 Current Date: 08/13/2009  
 Run Time: 60.0 Minutes Current Time: 02:18:35 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-137-10

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.512				
2	3 (2)	12.517	5101	200.000	200.000	0.002545
3	4 (3)	12.621				
4	5 (4,10)	13.212				
5	6 (7,9)	14.061				
6	7 (6)	14.366				
7	8 (5,8)	14.552				
8	9 (14)	15.105	7308	5.000	5.000	0.145840
9	10 (19)	15.179				
10	11 (30)	15.642	26689	5.000	5.000	0.532627
11	12 (11)	15.706	2761	5.000	5.000	0.055106
12	13 (12,13)	15.909				
13	14 (15,18)	16.028				
14	15 (17)	16.113				
15	16 (24,27)	16.411				
16	17 (16,32)	16.658				
17	19 (23,34,54)	17.115	16248	5.000	5.000	0.324270
18	20 (29)	17.291				
19	21 (26)	17.417				
20	22 (25)	17.500				
21	23 (31)	17.695				
22	24 (28,50)	17.746				
23	25 (20,21,33,53)	18.092				
24	26 (22,51)	18.321				
25	27 (45)	18.546				
26	28 (36)	18.690	12538	5.000	5.000	0.250228
27	29 (46)	18.815				
28	30 (39)	18.948	12406	5.000	5.000	0.247593

**Peak Results**

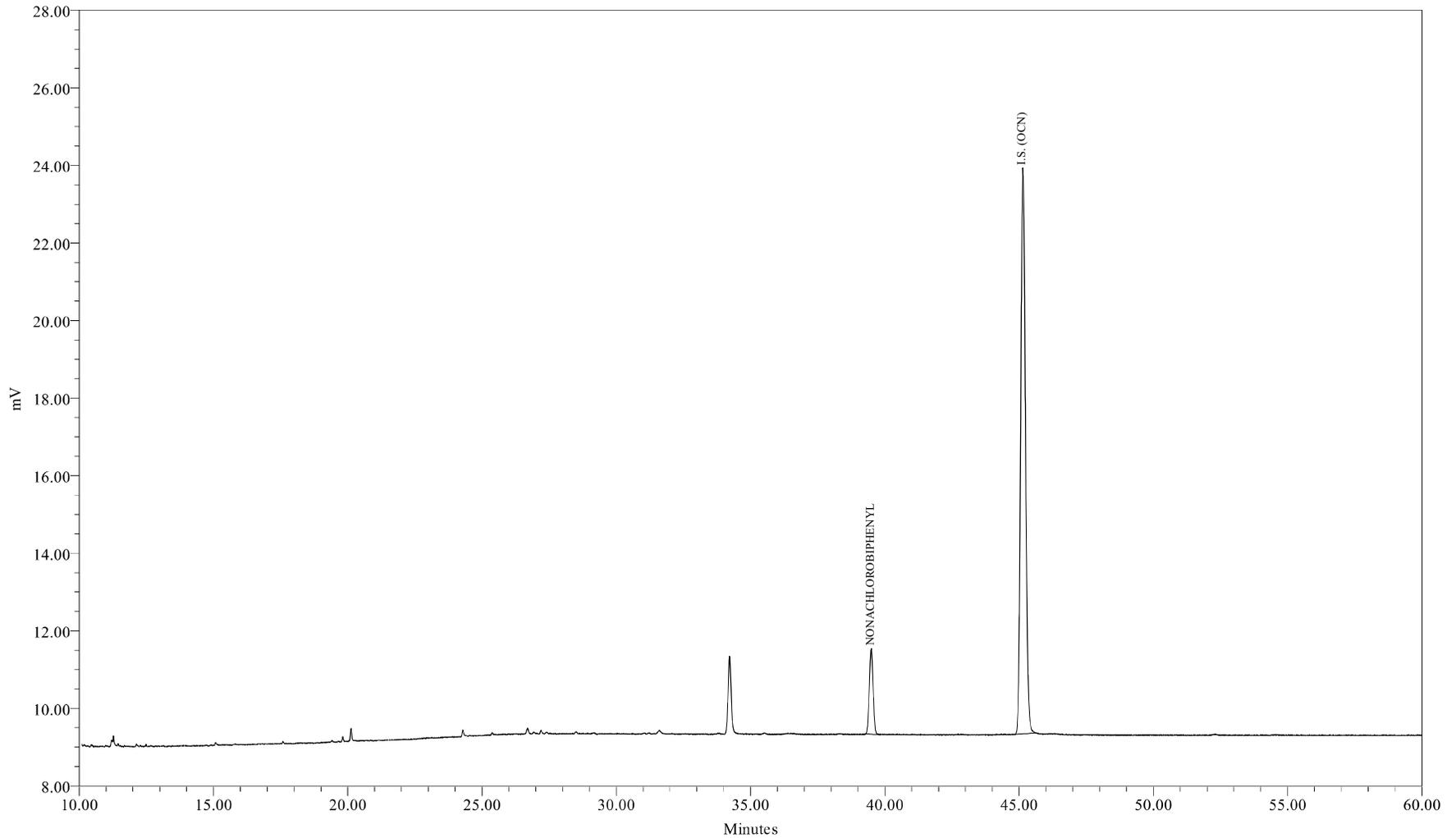
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.114				
30	32 (43,49)	19.282				
31	33 (38,47)	19.393				
32	34 (48,75)	19.458				
33	35 (62,65)	19.595	32133	5.000	5.000	0.641279
34	36 (35)	19.681	12534	5.000	5.000	0.250135
35	37 (104,44)	19.843				
36	38 (37,42,59)	19.972				
37	39 (41,64,71,72)	20.319				
38	41 (68,96)	20.479	17316	5.000	5.000	0.345578
39	42 (40)	20.577				
40	43 (57,103)	20.833	24203	5.000	5.000	0.483012
41	44 (58,67,100)	21.006				
42	45 (63)	21.163				
43	46 (74,94,61)	21.328				
44	47 (70)	21.457				
45	48 (66,76,98,80,93,95,102,88)	21.574				
46	49 (55,91,121)	21.874				
47	50 (56,60)	22.178				
48	51 (84,92,155)	22.411				
49	52 (89)	22.516				
50	53 (90,101)	22.673				
51	54 (79,99,113)	22.865				
52	55 (119,150)	23.143				
53	56 (78,83,112,108)	23.236				
54	57 (97,152,86)	23.447				
55	58 (81,87,117,125,115,145)	23.619				
56	59 (116,85,111)	23.773				
57	60 (120,136)	23.892				
58	61 (77,110,148)	24.025				
59	62 (154)	24.303	28987	5.000	5.000	0.578491
60	63 (82)	24.391				
61	64 (151)	24.685				
62	65 (124,135)	24.820				
63	66 (144)	24.885				
64	67 (107,109,147)	24.952				
65	68 (123)	25.038	33113	5.000	5.000	0.660826
66	69 (106,118,139,149)	25.134				
67	70 (140)	25.242	33463	5.000	5.000	0.667810
68	71 (114,134,143)	25.522				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	25.720				
70	73 (146,165,188)	25.989				
71	74 (105,132,161)	26.104				
72	75 (153)	26.258				
73	76 (127,168,184)	26.364	29664	5.000	5.000	0.591995
74	77 (141)	26.762				
75	78 (179)	26.823				
76	79 (137)	27.030				
77	80 (130,176)	27.171				
78	82 (138,163,164)	27.390				
79	83 (158,160,186)	27.562				
80	84 (126,129)	27.751				
81	85 (166,178)	28.081				
82	87 (175,159)	28.375				
83	88 (182,187)	28.511				
84	89 (128,162)	28.628				
85	90 (183)	28.808				
86	91 (167)	29.056				
87	92 (185)	29.376				
88	93 (174,181)	29.730				
89	94 (177)	29.989				
90	95 (156,171)	30.274				
91	96 (157,202)	30.531				
92	98 (173)	30.686				
93	99 (201)	31.045				
94	100 (172,204)	31.275				
95	101 (192,197)	31.530				
96	102 (180)	31.725				
97	103 (193)	31.972				
98	104 (191)	32.264				
99	105 (200,169)	32.590				
100	106 (170)	33.696				
101	107 (190)	33.961				
102	108 (198)	34.770				
103	109 (199)	34.995				
104	110 (196,203)	35.517				
105	111 (189)	36.642				
106	112 (195)	38.096				
107	113 (208)	38.594				
108	114 (207)	39.486				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	40.838				
110	116 (205)	41.669				
111	I.S. (OCN)	45.141	182193	18.180	18.180	10021.594331
112	117 (206)	46.568				
113	118 (209)	52.297				



Sample Name: SS0811A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 08/11/2009 23:33:27 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_2\_081109  
LIMS File ID: GC24-T37-I2

Sample Name: SS0811A

1 of 1

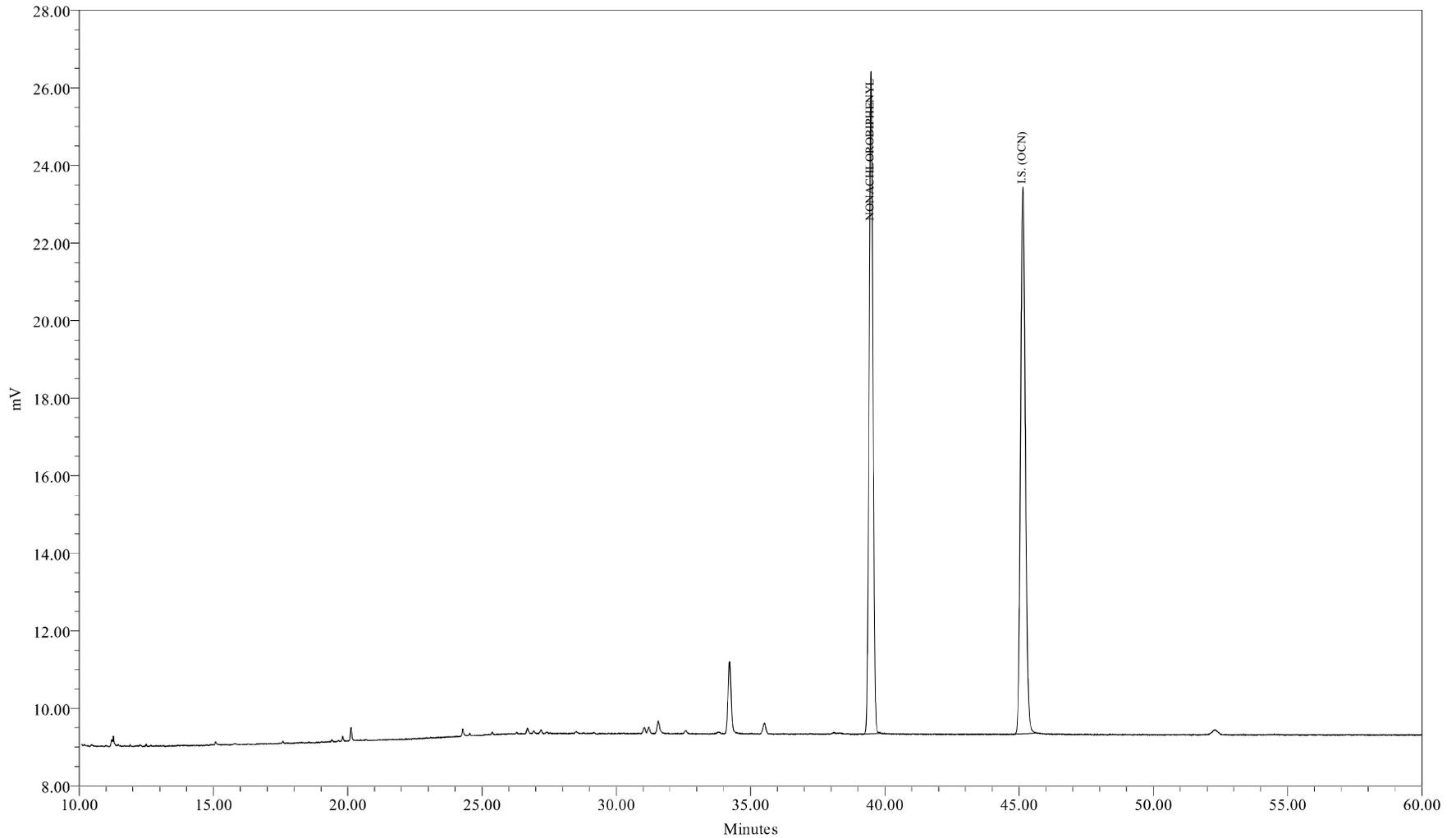


Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
Phone: (518) 346-4592 Fax: (518) 381-6055  
www.nealab.com

Sample Name: SS0811A Sample Amount: 1  
Sample ID: Surr Std (207) 2.0 ng/mL Dilution: 1  
Date Acquired: 08/11/2009 23:33:27 EDT Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 08/12/2009 09:51:41 EDT  
Sample Set Name: GC24\_cc\_081109 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_2\_081109 Current Date: 08/13/2009  
Run Time: 60.0 Minutes Current Time: 02:18:41 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-137-12

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	39.498	21446	2.000	2.000	1.066871
2	I.S. (OCN)	45.138	182726	18.180	18.180	10050.942133



Sample Name: SS0811B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 08/12/2009 00:38:57 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_20\_081109  
LIMS File ID: GC24-T37-13

Sample Name: SS0811B

1 of 1

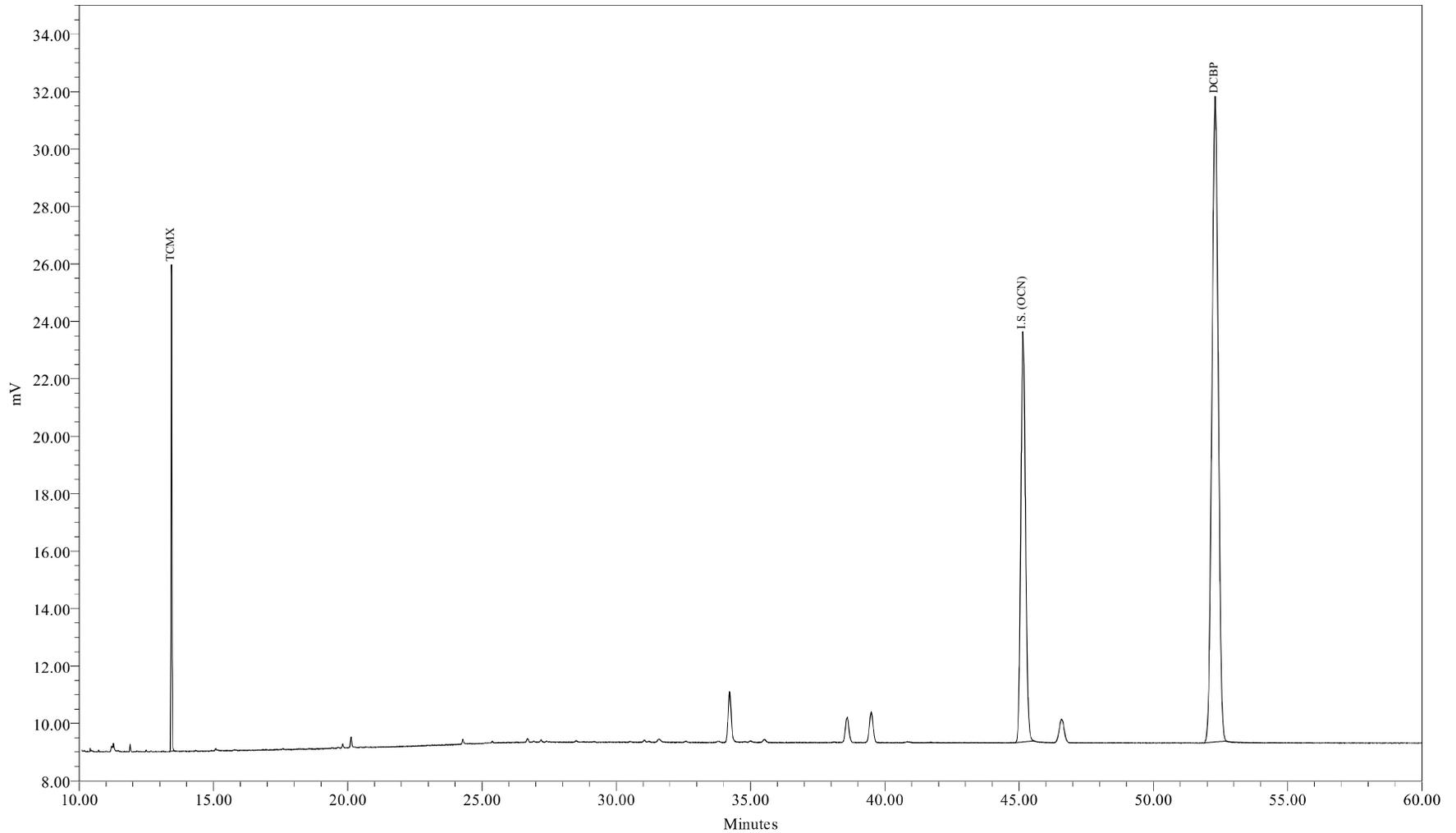


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Sample Name: SS0811B Sample Amount: 1  
Sample ID: Surr Std (207) 20.0 ng/mL Dilution: 1  
Date Acquired: 08/12/2009 00:38:57 EDT Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 08/12/2009 09:52:47 EDT  
Sample Set Name: GC24\_cc\_081109 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_20\_081109 Current Date: 08/13/2009  
Run Time: 60.0 Minutes Current Time: 02:18:45 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-137-13

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	39.484	167958	20.000	20.000	0.861736
2	I.S. (OCN)	45.147	177170	18.180	18.180	9745.333427



Sample Name: TD0811A  
Sample ID: Surr TCMX/DCBP 5/50 ppb  
Date Acquired: 08/11/2009 22:27:58 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_TD\_S\_081109  
LIMS File ID: GC24-T37-T1

Sample Name: TD0811A

1 of 1



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Sample Name: TD0811A Sample Amount: 1  
Sample ID: Surr TCMX/DCBP 5/50 ppb Dilution: 1  
Date Acquired: 08/11/2009 22:27:58 EDT Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 08/12/2009 09:50:46 EDT  
Sample Set Name: GC24\_cc\_081109 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_TD\_S\_081109 Current Date: 08/13/2009  
Run Time: 60.0 Minutes Current Time: 02:18:38 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-137-11

**Peak Results**

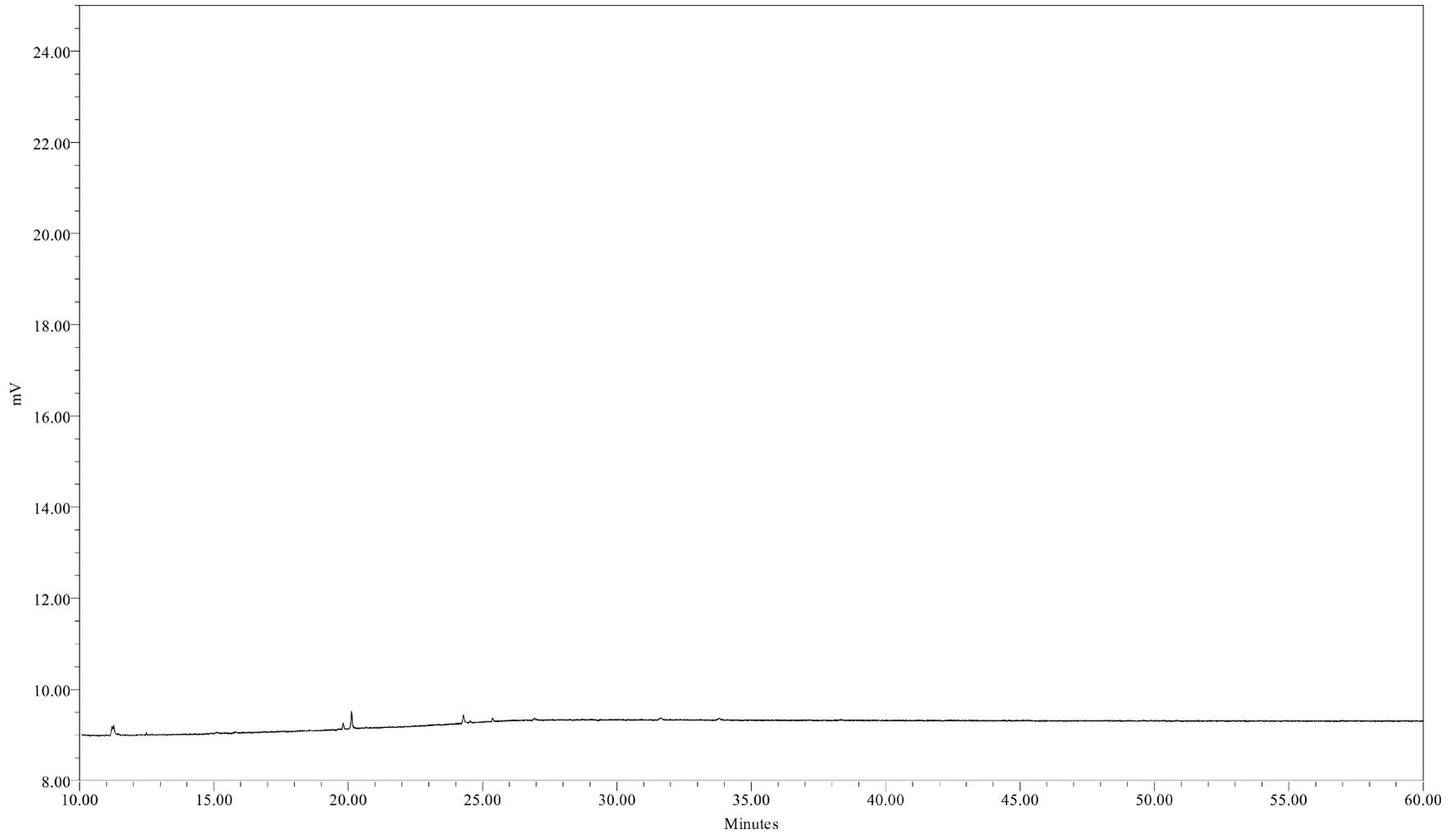
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	TCMX	13.437	36716	5.000	5.000	0.762950
2	I.S. (OCN)	45.139	174977	18.180	18.180	9624.686694
3	DCBP	52.295	365936	50.000	50.000	0.760411



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Sample Name: 090811B05  
Sample ID: HEXANE BLANK  
Date Acquired: 08/12/2009 01:44:26 EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-I37-14

Sample Name: 090811B05

1 of 1

**Northeast Analytical, Inc.**  
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: Northeast Analytical, Inc. SGD NO: 09080314  
ELAP ID No: 11078  
INSTRUMENT ID: GC24  
GC COLUMN: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

**Continuing Calibration Standard CCCS0823E**

Lab File ID:	<u>GC24-150-25</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>08/24/2009</u>	Calculated Amount:	<u>110 ng/ml</u>
Time:	<u>09:40:09</u>	OCN (I.S.) Peak Area:	<u>212503</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>118</u>

**Continuing Calibration Standard CCCS0824A**

Lab File ID:	<u>GC24-151-5</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>08/24/2009</u>	Calculated Amount:	<u>110 ng/ml</u>
Time:	<u>15:07:26</u>	OCN (I.S.) Peak Area:	<u>204197</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>113</u>

**Continuing Calibration Standard CCCS0826E**

Lab File ID:	<u>GC24-153-26</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>08/27/2009</u>	Calculated Amount:	<u>110 ng/ml</u>
Time:	<u>15:51:12</u>	OCN (I.S.) Peak Area:	<u>215477</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>120</u>

**Northeast Analytical, Inc.**  
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME:	Northeast Analytical, Inc.	SGD NO:	09080314
ELAP ID No:	11078		
INSTRUMENT ID:	GC24		
GC COLUMN:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm		

**Continuing Calibration Standard CCCS0827A**

Lab File ID:	GC24-154-10	Known Amount:	122 ng/ml
Date:	08/28/2009	Calculated Amount:	110 ng/ml
Time:	06:48:08	OCN (I.S.) Peak Area:	215119
		% Recovery of I.S. ( 50 - 150 %):	119

**Continuing Calibration Standard CCCS0827B**

Lab File ID:	GC24-154-13	Known Amount:	122 ng/ml
Date:	08/28/2009	Calculated Amount:	111 ng/ml
Time:	10:04:21	OCN (I.S.) Peak Area:	194701
		% Recovery of I.S. ( 50 - 150 %):	108

Lab File ID:	_____	Known Amount:	_____
Date:	_____	Calculated Amount:	_____
Time:	_____	OCN (I.S.) Peak Area:	_____
		% Recovery of I.S. ( 50 - 150 %):	_____

# Northeast Analytical, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0823E File ID: GC24-150-25		Continuing Calibration CCCS0824A File ID: GC24-151-5		Continuing Calibration CCCS0826E File ID: GC24-153-26	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.16	-14.0	1.15	-14.9	1.19	-11.6
37 (104,44)	3.06	+/-15	2.77	-9.43	2.77	-9.58	2.76	-9.78
47 (70)	2.42	+/-15	2.13	-11.8	2.14	-11.6	2.13	-12.2
93 (174,181)	2.28	+/-15	2.04	-10.6	2.03	-11.0	2.01	-11.7
102 (180)	4.35	+/-15	3.82	-12.3	3.82	-12.3	3.79	-13.0
116 (205)	0.0788	+/-30	0.0714	-9.45	0.0715	-9.25	0.0718	-8.86
Total CCCS Conc.	122	+/-15	110	-9.70	110	-9.88	110	-10.2

### Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0823E	1715 uV	857.5 uV	687 uV
CCCS0824A	1645 uV	822.5 uV	662 uV
CCCS0826E	1753 uV	876.5 uV	698 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0823E	2194 uV	731.3 uV	114 uV
CCCS0824A	2162 uV	720.7 uV	112 uV
CCCS0826E	2330 uV	776.7 uV	120 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

# Northeast Analytical, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0827A File ID: GC24-154-10		Continuing Calibration CCCS0827B File ID: GC24-154-13		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.12	-17.0	1.20	-11.3		
37 (104,44)	3.06	+/-15	2.76	-9.91	2.78	-9.11		
47 (70)	2.42	+/-15	2.10	-13.1	2.13	-12.1		
93 (174,181)	2.28	+/-15	2.00	-12.1	2.02	-11.3		
102 (180)	4.35	+/-15	3.79	-12.8	3.80	-12.7		
116 (205)	0.0788	+/-30	0.0616	-21.9	0.0755	-4.22		
Total CCCS Conc.	122	+/-15	110	-9.76	111	-9.25		

### Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0827A	1714 uV	857 uV	705 uV
CCCS0827B	1614 uV	807 uV	647 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0827A	2254 uV	751.3 uV	101 uV
CCCS0827B	2058 uV	686 uV	109 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0823E	CCCS0823E File ID: GC24-150-25		Retention Time	Flag	Retention Time	Flag
			Retention Time	Flag				
1	2 (1)	+/-0.07	11.51					
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.62					
4	5 (4,10)	+/-0.07	13.21					
5	6 (7,9)	+/-0.07	14.06					
6	7 (6)	+/-0.07	14.36					
7	8 (5,8)	+/-0.07	14.55					
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.17					
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	15.91					
13	14 (15,18)	+/-0.07	16.02					
14	15 (17)	+/-0.07	16.11					
15	16 (24,27)	+/-0.07	16.40					
16	17 (16,32)	+/-0.07	16.65					
17	19 (23,34,54)	+/-0.07	17.12					
18	20 (29)	+/-0.07	17.30					
19	21 (26)	+/-0.07	17.42					
20	22 (25)	+/-0.07	17.50					
21	23 (31)	+/-0.07	17.69					
22	24 (28,50)	+/-0.07	17.74					
23	25 (20,21,33,53)	+/-0.07	18.09					
24	26 (22,51)	+/-0.07	18.32					
25	27 (45)	+/-0.07	18.54					
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	18.81					
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.11					
30	32 (43,49)	+/-0.07	19.27					
31	33 (38,47)	+/-0.07	19.39					
32	34 (48,75)	+/-0.07	19.45					
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	19.68					
35	37 (104,44)	+/-0.07	19.84					
36	38 (37,42,59)	+/-0.07	19.97					
37	39 (41,64,71,72)	+/-0.07	20.31					
38	41 (68,96)	+/-0.07	20.48					
39	42 (40)	+/-0.07	20.57					
40	43 (57,103)	+/-0.07	20.82					
41	44 (58,67,100)	+/-0.07	21.00					
42	45 (63)	+/-0.07	21.16					
43	46 (74,94,61)	+/-0.07	21.32					
44	47 (70)	+/-0.07	21.45					
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.57					
46	49 (55,91,121)	+/-0.07	21.86					
47	50 (56,60)	+/-0.07	22.17					
48	51 (84,92,155)	+/-0.07	22.40					
49	52 (89)	+/-0.07	22.51					
50	53 (90,101)	+/-0.07	22.66					
51	54 (79,99,113)	+/-0.07	22.86					
52	55 (119,150)	+/-0.07	23.14					
53	56 (78,83,112,108)	+/-0.07	23.22					
54	57 (97,152,86)	+/-0.07	23.44					
55	58 (81,87,117,125,115,145)	+/-0.07	23.61					
56	59 (116,85,111)	+/-0.07	23.76					

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0823E	CCCS0823E File ID: GC24-150-25		Retention Time	Flag	Retention Time	Flag
			Retention Time	Flag				
57	60 (120,136)	+/-0.07	23.88					
58	61 (77,110,148)	+/-0.07	24.01					
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.38					
61	64 (151)	+/-0.07	24.68					
62	65 (124,135)	+/-0.07	24.81					
63	66 (144)	+/-0.07	24.87					
64	67 (107,109,147)	+/-0.07	24.94					
65	68 (123)	+/-0.07	25.05					
66	69 (106,118,139,149)	+/-0.07	25.12					
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.51					
69	72 (122,131,133,142)	+/-0.07	25.71					
70	73 (146,165,188)	+/-0.07	25.98					
71	74 (105,132,161)	+/-0.07	26.10					
72	75 (153)	+/-0.07	26.25					
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	26.75					
75	78 (179)	+/-0.07	26.81					
76	79 (137)	+/-0.07	27.02					
77	80 (130,176)	+/-0.07	27.16					
78	82 (138,163,164)	+/-0.07	27.38					
79	83 (158,160,186)	+/-0.07	27.55					
80	84 (126,129)	+/-0.07	27.75					
81	85 (166,178)	+/-0.07	28.07					
82	87 (175,159)	+/-0.07	28.36					
83	88 (182,187)	+/-0.07	28.50					
84	89 (128,162)	+/-0.07	28.61					
85	90 (183)	+/-0.07	28.79					
86	91 (167)	+/-0.07	29.05					
87	92 (185)	+/-0.07	29.36					
88	93 (174,181)	+/-0.07	29.72					
89	94 (177)	+/-0.07	29.98					
90	95 (156,171)	+/-0.07	30.26					
91	96 (157,202)	+/-0.07	30.51					
92	98 (173)	+/-0.07	30.66					
93	99 (201)	+/-0.07	31.02					
94	100 (172,204)	+/-0.07	31.27					
95	101 (192,197)	+/-0.07	31.53					
96	102 (180)	+/-0.07	31.73					
97	103 (193)	+/-0.07	31.95					
98	104 (191)	+/-0.07	32.25					
99	105 (200,169)	+/-0.07	32.57					
100	106 (170)	+/-0.07	33.68					
101	107 (190)	+/-0.07	33.94					
102	108 (198)	+/-0.07	34.77					
103	109 (199)	+/-0.07	34.98					
104	110 (196,203)	+/-0.07	35.50					
105	111 (189)	+/-0.07	36.60					
106	112 (195)	+/-0.07	38.07					
107	113 (208)	+/-0.07	38.58					
108	114 (207)	+/-0.07	39.45					
109	115 (194)	+/-0.07	40.82					
110	116 (205)	+/-0.07	41.67					
111	117 (206)	+/-0.07	46.55					
112	118 (209)	+/-0.07	52.27					

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0823E	CCCS0824A File ID: GC24-151-5		Retention Time	Flag	Retention Time	Flag
			Retention Time	Flag				
1	2 (1)	+/-0.07	11.51					
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.62					
4	5 (4,10)	+/-0.07	13.21					
5	6 (7,9)	+/-0.07	14.06					
6	7 (6)	+/-0.07	14.37					
7	8 (5,8)	+/-0.07	14.55					
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.17					
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	15.91					
13	14 (15,18)	+/-0.07	16.02					
14	15 (17)	+/-0.07	16.11					
15	16 (24,27)	+/-0.07	16.41					
16	17 (16,32)	+/-0.07	16.65					
17	19 (23,34,54)	+/-0.07	17.11					
18	20 (29)	+/-0.07	17.29					
19	21 (26)	+/-0.07	17.41					
20	22 (25)	+/-0.07	17.50					
21	23 (31)	+/-0.07	17.69					
22	24 (28,50)	+/-0.07	17.74					
23	25 (20,21,33,53)	+/-0.07	18.09					
24	26 (22,51)	+/-0.07	18.32					
25	27 (45)	+/-0.07	18.54					
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	18.81					
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.11					
30	32 (43,49)	+/-0.07	19.27					
31	33 (38,47)	+/-0.07	19.39					
32	34 (48,75)	+/-0.07	19.45					
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	19.68					
35	37 (104,44)	+/-0.07	19.84					
36	38 (37,42,59)	+/-0.07	19.97					
37	39 (41,64,71,72)	+/-0.07	20.31					
38	41 (68,96)	+/-0.07	20.48					
39	42 (40)	+/-0.07	20.57					
40	43 (57,103)	+/-0.07	20.82					
41	44 (58,67,100)	+/-0.07	21.00					
42	45 (63)	+/-0.07	21.16					
43	46 (74,94,61)	+/-0.07	21.32					
44	47 (70)	+/-0.07	21.45					
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.57					
46	49 (55,91,121)	+/-0.07	21.86					
47	50 (56,60)	+/-0.07	22.17					
48	51 (84,92,155)	+/-0.07	22.40					
49	52 (89)	+/-0.07	22.51					
50	53 (90,101)	+/-0.07	22.66					
51	54 (79,99,113)	+/-0.07	22.86					
52	55 (119,150)	+/-0.07	23.13					
53	56 (78,83,112,108)	+/-0.07	23.23					
54	57 (97,152,86)	+/-0.07	23.44					
55	58 (81,87,117,125,115,145)	+/-0.07	23.61					
56	59 (116,85,111)	+/-0.07	23.76					

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0823E	CCCS0824A File ID: GC24-151-5		Retention Time	Flag	Retention Time	Flag
			Retention Time	Flag				
57	60 (120,136)	+/-0.07	23.88					
58	61 (77,110,148)	+/-0.07	24.02					
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.38					
61	64 (151)	+/-0.07	24.68					
62	65 (124,135)	+/-0.07	24.81					
63	66 (144)	+/-0.07	24.87					
64	67 (107,109,147)	+/-0.07	24.94					
65	68 (123)	+/-0.07	25.05					
66	69 (106,118,139,149)	+/-0.07	25.12					
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.51					
69	72 (122,131,133,142)	+/-0.07	25.71					
70	73 (146,165,188)	+/-0.07	25.98					
71	74 (105,132,161)	+/-0.07	26.10					
72	75 (153)	+/-0.07	26.25					
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	26.75					
75	78 (179)	+/-0.07	26.81					
76	79 (137)	+/-0.07	27.02					
77	80 (130,176)	+/-0.07	27.16					
78	82 (138,163,164)	+/-0.07	27.38					
79	83 (158,160,186)	+/-0.07	27.55					
80	84 (126,129)	+/-0.07	27.75					
81	85 (166,178)	+/-0.07	28.07					
82	87 (175,159)	+/-0.07	28.37					
83	88 (182,187)	+/-0.07	28.50					
84	89 (128,162)	+/-0.07	28.61					
85	90 (183)	+/-0.07	28.79					
86	91 (167)	+/-0.07	29.05					
87	92 (185)	+/-0.07	29.37					
88	93 (174,181)	+/-0.07	29.72					
89	94 (177)	+/-0.07	29.98					
90	95 (156,171)	+/-0.07	30.27					
91	96 (157,202)	+/-0.07	30.51					
92	98 (173)	+/-0.07	30.68					
93	99 (201)	+/-0.07	31.03					
94	100 (172,204)	+/-0.07	31.26					
95	101 (192,197)	+/-0.07	31.54					
96	102 (180)	+/-0.07	31.72					
97	103 (193)	+/-0.07	31.96					
98	104 (191)	+/-0.07	32.26					
99	105 (200,169)	+/-0.07	32.58					
100	106 (170)	+/-0.07	33.68					
101	107 (190)	+/-0.07	33.94					
102	108 (198)	+/-0.07	34.76					
103	109 (199)	+/-0.07	34.99					
104	110 (196,203)	+/-0.07	35.50					
105	111 (189)	+/-0.07	36.62					
106	112 (195)	+/-0.07	38.08					
107	113 (208)	+/-0.07	38.57					
108	114 (207)	+/-0.07	39.48					
109	115 (194)	+/-0.07	40.82					
110	116 (205)	+/-0.07	41.65					
111	117 (206)	+/-0.07	46.55					
112	118 (209)	+/-0.07	52.30					

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0823E	CCCS0826E File ID: GC24-153-26		Retention Time	Flag	Retention Time	Flag
			Retention Time	Flag				
1	2 (1)	+/-0.07	11.51					
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.62					
4	5 (4,10)	+/-0.07	13.21					
5	6 (7,9)	+/-0.07	14.06					
6	7 (6)	+/-0.07	14.36					
7	8 (5,8)	+/-0.07	14.55					
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.17					
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	15.91					
13	14 (15,18)	+/-0.07	16.02					
14	15 (17)	+/-0.07	16.11					
15	16 (24,27)	+/-0.07	16.41					
16	17 (16,32)	+/-0.07	16.65					
17	19 (23,34,54)	+/-0.07	17.11					
18	20 (29)	+/-0.07	17.30					
19	21 (26)	+/-0.07	17.41					
20	22 (25)	+/-0.07	17.50					
21	23 (31)	+/-0.07	17.69					
22	24 (28,50)	+/-0.07	17.74					
23	25 (20,21,33,53)	+/-0.07	18.09					
24	26 (22,51)	+/-0.07	18.32					
25	27 (45)	+/-0.07	18.54					
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	18.81					
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.11					
30	32 (43,49)	+/-0.07	19.27					
31	33 (38,47)	+/-0.07	19.39					
32	34 (48,75)	+/-0.07	19.45					
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	19.70					
35	37 (104,44)	+/-0.07	19.84					
36	38 (37,42,59)	+/-0.07	19.97					
37	39 (41,64,71,72)	+/-0.07	20.31					
38	41 (68,96)	+/-0.07	20.47					
39	42 (40)	+/-0.07	20.57					
40	43 (57,103)	+/-0.07	20.82					
41	44 (58,67,100)	+/-0.07	21.00					
42	45 (63)	+/-0.07	21.15					
43	46 (74,94,61)	+/-0.07	21.32					
44	47 (70)	+/-0.07	21.45					
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.57					
46	49 (55,91,121)	+/-0.07	21.86					
47	50 (56,60)	+/-0.07	22.17					
48	51 (84,92,155)	+/-0.07	22.40					
49	52 (89)	+/-0.07	22.51					
50	53 (90,101)	+/-0.07	22.66					
51	54 (79,99,113)	+/-0.07	22.86					
52	55 (119,150)	+/-0.07	23.14					
53	56 (78,83,112,108)	+/-0.07	23.23					
54	57 (97,152,86)	+/-0.07	23.44					
55	58 (81,87,117,125,115,145)	+/-0.07	23.61					
56	59 (116,85,111)	+/-0.07	23.76					

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0823E	CCCS0826E File ID: GC24-153-26		Retention Time	Flag	Retention Time	Flag
			Retention Time	Flag				
57	60 (120,136)	+/-0.07	23.88					
58	61 (77,110,148)	+/-0.07	24.02					
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.38					
61	64 (151)	+/-0.07	24.68					
62	65 (124,135)	+/-0.07	24.81					
63	66 (144)	+/-0.07	24.87					
64	67 (107,109,147)	+/-0.07	24.94					
65	68 (123)	+/-0.07	25.05					
66	69 (106,118,139,149)	+/-0.07	25.12					
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.50					
69	72 (122,131,133,142)	+/-0.07	25.70					
70	73 (146,165,188)	+/-0.07	25.97					
71	74 (105,132,161)	+/-0.07	26.10					
72	75 (153)	+/-0.07	26.24					
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	26.75					
75	78 (179)	+/-0.07	26.81					
76	79 (137)	+/-0.07	27.06					
77	80 (130,176)	+/-0.07	27.15					
78	82 (138,163,164)	+/-0.07	27.38					
79	83 (158,160,186)	+/-0.07	27.55					
80	84 (126,129)	+/-0.07	27.74					
81	85 (166,178)	+/-0.07	28.07					
82	87 (175,159)	+/-0.07	28.36					
83	88 (182,187)	+/-0.07	28.50					
84	89 (128,162)	+/-0.07	28.61					
85	90 (183)	+/-0.07	28.79					
86	91 (167)	+/-0.07	29.07					
87	92 (185)	+/-0.07	29.36					
88	93 (174,181)	+/-0.07	29.72					
89	94 (177)	+/-0.07	29.97					
90	95 (156,171)	+/-0.07	30.26					
91	96 (157,202)	+/-0.07	30.51					
92	98 (173)	+/-0.07	30.66					
93	99 (201)	+/-0.07	31.02					
94	100 (172,204)	+/-0.07	31.26					
95	101 (192,197)	+/-0.07	31.54					
96	102 (180)	+/-0.07	31.72					
97	103 (193)	+/-0.07	31.95					
98	104 (191)	+/-0.07	32.25					
99	105 (200,169)	+/-0.07	32.57					
100	106 (170)	+/-0.07	33.68					
101	107 (190)	+/-0.07	33.94					
102	108 (198)	+/-0.07	34.75					
103	109 (199)	+/-0.07	34.97					
104	110 (196,203)	+/-0.07	35.49					
105	111 (189)	+/-0.07	36.62					
106	112 (195)	+/-0.07	38.07					
107	113 (208)	+/-0.07	38.58					
108	114 (207)	+/-0.07	39.48					
109	115 (194)	+/-0.07	40.82					
110	116 (205)	+/-0.07	41.67					
111	117 (206)	+/-0.07	46.54					
112	118 (209)	+/-0.07	52.28					

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0823E	CCCS0827A File ID: GC24-154-10		CCCS0827B File ID: GC24-154-13		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.51		11.51			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.62		12.62			
4	5 (4,10)	+/-0.07	13.21		13.21			
5	6 (7,9)	+/-0.07	14.06		14.06			
6	7 (6)	+/-0.07	14.36		14.36			
7	8 (5,8)	+/-0.07	14.55		14.55			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.17		15.17			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	15.91		15.92			
13	14 (15,18)	+/-0.07	16.02		16.02			
14	15 (17)	+/-0.07	16.11		16.11			
15	16 (24,27)	+/-0.07	16.40		16.40			
16	17 (16,32)	+/-0.07	16.65		16.65			
17	19 (23,34,54)	+/-0.07	17.10		17.11			
18	20 (29)	+/-0.07	17.30		17.29			
19	21 (26)	+/-0.07	17.41		17.41			
20	22 (25)	+/-0.07	17.50		17.50			
21	23 (31)	+/-0.07	17.69		17.69			
22	24 (28,50)	+/-0.07	17.74		17.74			
23	25 (20,21,33,53)	+/-0.07	18.09		18.09			
24	26 (22,51)	+/-0.07	18.32		18.32			
25	27 (45)	+/-0.07	18.54		18.54			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	18.81		18.81			
28	30 (39)	+/-0.07			18.95			
29	31 (52,69,73)	+/-0.07	19.11		19.10			
30	32 (43,49)	+/-0.07	19.27		19.27			
31	33 (38,47)	+/-0.07	19.39		19.39			
32	34 (48,75)	+/-0.07	19.45		19.45			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	19.68		19.70			
35	37 (104,44)	+/-0.07	19.84		19.84			
36	38 (37,42,59)	+/-0.07	19.96		19.96			
37	39 (41,64,71,72)	+/-0.07	20.31		20.31			
38	41 (68,96)	+/-0.07	20.47		20.46			
39	42 (40)	+/-0.07	20.57		20.57			
40	43 (57,103)	+/-0.07	20.81		20.82			
41	44 (58,67,100)	+/-0.07	21.00		21.00			
42	45 (63)	+/-0.07	21.16		21.16			
43	46 (74,94,61)	+/-0.07	21.32		21.32			
44	47 (70)	+/-0.07	21.45		21.45			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.57		21.57			
46	49 (55,91,121)	+/-0.07	21.86		21.86			
47	50 (56,60)	+/-0.07	22.17		22.17			
48	51 (84,92,155)	+/-0.07	22.40		22.40			
49	52 (89)	+/-0.07	22.51		22.50			
50	53 (90,101)	+/-0.07	22.66		22.66			
51	54 (79,99,113)	+/-0.07	22.85		22.85			
52	55 (119,150)	+/-0.07	23.13		23.14			
53	56 (78,83,112,108)	+/-0.07	23.23		23.23			
54	57 (97,152,86)	+/-0.07	23.44		23.44			
55	58 (81,87,117,125,115,145)	+/-0.07	23.61		23.61			
56	59 (116,85,111)	+/-0.07	23.76		23.76			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0823E	CCCS0827A File ID: GC24-154-10		CCCS0827B File ID: GC24-154-13		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	23.88		23.88			
58	61 (77,110,148)	+/-0.07	24.01		24.01			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.38		24.38			
61	64 (151)	+/-0.07	24.67		24.67			
62	65 (124,135)	+/-0.07	24.81		24.81			
63	66 (144)	+/-0.07	24.87		24.87			
64	67 (107,109,147)	+/-0.07	24.94		24.94			
65	68 (123)	+/-0.07	25.05		25.05			
66	69 (106,118,139,149)	+/-0.07	25.12		25.12			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.50		25.50			
69	72 (122,131,133,142)	+/-0.07	25.71		25.69			
70	73 (146,165,188)	+/-0.07	25.98		25.97			
71	74 (105,132,161)	+/-0.07	26.10		26.10			
72	75 (153)	+/-0.07	26.24		26.24			
73	76 (127,168,184)	+/-0.07			26.37			
74	77 (141)	+/-0.07	26.75		26.75			
75	78 (179)	+/-0.07	26.81		26.81			
76	79 (137)	+/-0.07	27.04		27.02			
77	80 (130,176)	+/-0.07	27.16		27.16			
78	82 (138,163,164)	+/-0.07	27.38		27.38			
79	83 (158,160,186)	+/-0.07	27.55		27.54			
80	84 (126,129)	+/-0.07	27.75		27.75			
81	85 (166,178)	+/-0.07	28.07		28.07			
82	87 (175,159)	+/-0.07	28.36		28.36			
83	88 (182,187)	+/-0.07	28.49		28.50			
84	89 (128,162)	+/-0.07	28.60		28.61			
85	90 (183)	+/-0.07	28.79		28.79			
86	91 (167)	+/-0.07	29.04		29.06			
87	92 (185)	+/-0.07	29.36		29.37			
88	93 (174,181)	+/-0.07	29.71		29.72			
89	94 (177)	+/-0.07	29.97		29.97			
90	95 (156,171)	+/-0.07	30.26		30.27			
91	96 (157,202)	+/-0.07	30.51		30.51			
92	98 (173)	+/-0.07	30.67		30.67			
93	99 (201)	+/-0.07	31.02		31.03			
94	100 (172,204)	+/-0.07	31.27		31.27			
95	101 (192,197)	+/-0.07	31.53		31.54			
96	102 (180)	+/-0.07	31.72		31.72			
97	103 (193)	+/-0.07	31.95		31.96			
98	104 (191)	+/-0.07	32.24		32.23			
99	105 (200,169)	+/-0.07	32.57		32.57			
100	106 (170)	+/-0.07	33.67		33.68			
101	107 (190)	+/-0.07	33.93		33.94			
102	108 (198)	+/-0.07	34.75		34.77			
103	109 (199)	+/-0.07	34.97		34.97			
104	110 (196,203)	+/-0.07	35.49		35.50			
105	111 (189)	+/-0.07	36.64		36.61			
106	112 (195)	+/-0.07	38.08		38.09			
107	113 (208)	+/-0.07	38.56		38.56			
108	114 (207)	+/-0.07	39.47		39.45			
109	115 (194)	+/-0.07	40.81		40.81			
110	116 (205)	+/-0.07	41.65		41.67			
111	117 (206)	+/-0.07	46.52		46.53			
112	118 (209)	+/-0.07	52.28		52.29			

# Calibration Component Summary Table

## Component Summary for RF



Project Name:	GC24_Mar_2009	Current Time:	15:17:34
Sample Set Name:	GC24_cc_081109	Current Date:	09/11/2009
Processing Method:	CSGB_LL1X_081109	Calibration ID:	26326
Run Time:	60 Minutes	Calibration Date(s):	08/11/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999428	Y = 2.34e-002 X + 3.50e-004	0.000349590979823733	0.0234046386727821
2	3 (2)	1.000000	Y = 2.55e-003 X	0	0.00254523979537632
3	4 (3)	0.999948	Y = 1.21e-002 X + 8.13e-007	8.12527415669506E-7	0.0121349535382536
4	5 (4,10)	0.999532	Y = 5.37e-002 X + 4.26e-004	0.000426213962999189	0.0537035702912781
5	6 (7,9)	0.999623	Y = 3.81e-001 X + 3.89e-003	0.00388877583178593	0.381305566924796
6	7 (6)	0.999651	Y = 1.84e-001 X + 2.19e-003	0.00218538537498564	0.183952857837132
7	8 (5,8)	0.999318	Y = 9.90e-002 X + 1.29e-002	0.012931404652172	0.0989614276966817
8	9 (14)	1.000000	Y = 1.46e-001 X	0	0.145840372404442
9	10 (19)	0.999540	Y = 2.87e-001 X + 1.53e-003	0.00152669345925494	0.287123245551624
10	11 (30)	1.000000	Y = 5.33e-001 X	0	0.532627172495183
11	12 (11)	1.000000	Y = 5.51e-002 X	0	0.0551064807196726
12	13 (12,13)	0.999990	Y = 2.71e-001 X - 2.12e-004	-0.00021171643950725	0.270882233225182
13	14 (15,18)	0.999697	Y = 3.09e-001 X + 1.09e-002	0.0108800194006606	0.309313044193204
14	15 (17)	0.999435	Y = 1.56e-001 X + 5.80e-003	0.00579671853135999	0.156382185666812
15	16 (24,27)	0.999400	Y = 4.75e-001 X + 8.72e-004	0.000872134382194106	0.475214829493428
16	17 (16,32)	0.999564	Y = 2.69e-001 X + 5.65e-003	0.00564576913479153	0.269058571184774
17	19 (23,34,54)	1.000000	Y = 3.24e-001 X	0	0.324269714358145
18	20 (29)	0.999869	Y = 5.04e-001 X + 2.81e-004	0.000281409313723717	0.504089524589616
19	21 (26)	0.999818	Y = 3.52e-001 X - 8.06e-005	-8.05566245190015E-5	0.351633168204967
20	22 (25)	0.999922	Y = 4.64e-001 X + 4.33e-004	0.000433278781722807	0.464339280573974
21	23 (31)	0.998802	Y = 4.25e-001 X + 1.21e-002	0.012123194517011	0.424573284652382
22	24 (28,50)	0.999443	Y = 4.82e-001 X + 2.47e-002	0.0246824247901656	0.482009598177437
23	25 (20,21,33,53)	0.999818	Y = 3.69e-001 X + 1.26e-002	0.0126441688231289	0.369292528167354
24	26 (22,51)	0.999974	Y = 3.55e-001 X + 1.54e-003	0.00153921472518836	0.354699355931797
25	27 (45)	0.999858	Y = 3.92e-001 X + 1.32e-003	0.00131830890528506	0.392139760642349
26	28 (36)	1.000000	Y = 2.50e-001 X	0	0.250227579826662
27	29 (46)	0.999999	Y = 3.37e-001 X - 2.10e-004	-0.00021048983772883	0.336797010887267
28	30 (39)	1.000000	Y = 2.48e-001 X	0	0.247593361704365
29	31 (52,69,73)	0.999153	Y = 2.90e-001 X + 1.08e-002	0.0107717664803002	0.289809300919809
30	32 (43,49)	0.999417	Y = 5.79e-001 X + 1.18e-002	0.0118220924645498	0.57909826244862
31	33 (38,47)	0.999227	Y = 8.08e-001 X + 1.54e-002	0.0154138177212151	0.808292317124016
32	34 (48,75)	0.999729	Y = 5.83e-001 X + 1.87e-003	0.00187237285290864	0.582962382647156
33	35 (62,65)	1.000000	Y = 6.41e-001 X	0	0.64127870592182
34	36 (35)	1.000000	Y = 2.50e-001 X	0	0.250135001030339
35	37 (104,44)	0.998583	Y = 4.48e-001 X + 4.05e-002	0.0404840200852072	0.448000364304437
36	38 (37,42,59)	0.999999	Y = 3.73e-001 X + 2.68e-003	0.00268428833436152	0.373127418226932
37	39 (41,64,71,72)	0.999212	Y = 5.86e-001 X + 1.41e-002	0.0141065959571591	0.586243653117562
38	41 (68,96)	1.000000	Y = 3.46e-001 X	0	0.34557802066131



Project Name:	GC24_Mar_2009	Current Time:	15:17:34
Sample Set Name:	GC24_cc_081109	Current Date:	09/11/2009
Processing Method:	CSGB_LL1X_081109	Calibration ID:	26326
Run Time:	60 Minutes	Calibration Date(s):	08/11/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999748	Y = 4.83e-001 X - 7.67e-005	-7.67208106456918E-5	0.482559796277076
40	43 (57,103)	1.000000	Y = 4.83e-001 X	0	0.483011732530535
41	44 (58,67,100)	0.999375	Y = 6.71e-001 X + 6.80e-004	0.000679680727723245	0.671159089970559
42	45 (63)	0.999218	Y = 6.62e-001 X + 1.85e-003	0.00185399775843809	0.66244323415549
43	46 (74,94,61)	0.999440	Y = 8.59e-001 X + 1.58e-002	0.0157595087269538	0.859467680892505
44	47 (70)	0.999073	Y = 6.82e-001 X + 2.51e-002	0.02505556942101148	0.682372002859518
45	48 (66,76,98,80,93,95,102,88)	0.999221	Y = 4.57e-001 X + 3.41e-002	0.0340800443138547	0.456679912121763
46	49 (55,91,121)	0.999679	Y = 5.19e-001 X - 4.34e-004	-0.00043426853840747	0.518910080634556
47	50 (56,60)	0.999607	Y = 6.97e-001 X + 1.89e-002	0.0189300666808236	0.696927466231821
48	51 (84,92,155)	0.999651	Y = 2.62e-001 X + 2.43e-003	0.00242822655153596	0.261905877682871
49	52 (89)	0.999497	Y = 4.88e-001 X + 6.58e-004	0.000658230048167112	0.487927184932944
50	53 (90,101)	0.999459	Y = 5.77e-001 X + 8.75e-003	0.00874506165519284	0.576524546406873
51	54 (79,99,113)	0.999592	Y = 8.91e-001 X + 3.10e-003	0.00309566211266765	0.891193135064078
52	55 (119,150)	0.999673	Y = 1.25e+000 X + 6.72e-005	6.71982294226867E-5	1.25498482135365
53	56 (78,83,112,108)	0.999653	Y = 4.71e-001 X + 1.27e-004	0.000127036219374183	0.471112017882456
54	57 (97,152,86)	0.999713	Y = 7.43e-001 X + 4.12e-003	0.00411814231529678	0.742651026721208
55	58 (81,87,117,125,115,145)	0.999598	Y = 6.41e-001 X + 6.43e-003	0.0064306030321839	0.641273857623808
56	59 (116,85,111)	0.999876	Y = 7.95e-001 X + 2.43e-003	0.00242900158709269	0.795393467347595
57	60 (120,136)	0.999682	Y = 6.10e-001 X - 1.98e-003	-0.00197931544302676	0.609921400400015
58	61 (77,110,148)	0.999505	Y = 5.81e-001 X + 1.31e-002	0.0131022969987931	0.581001194052476
59	62 (154)	1.000000	Y = 5.78e-001 X	0	0.578491034591418
60	63 (82)	0.999076	Y = 6.94e-001 X + 1.16e-003	0.00115784463905888	0.69364273554216
61	64 (151)	0.999516	Y = 6.34e-001 X + 7.09e-003	0.00709068184729445	0.633792614722725
62	65 (124,135)	0.999506	Y = 1.03e+000 X + 9.46e-004	0.000946037251287668	1.02603734492725
63	66 (144)	0.999669	Y = 4.11e-001 X + 2.11e-003	0.00210996143681902	0.410678971846562
64	67 (107,109,147)	0.999110	Y = 5.98e-001 X + 8.01e-004	0.000800863067918226	0.598129736180134
65	68 (123)	1.000000	Y = 6.61e-001 X	0	0.660825676174607
66	69 (106,118,139,149)	0.998624	Y = 6.98e-001 X + 3.48e-002	0.0348206686535426	0.697514630132999
67	70 (140)	1.000000	Y = 6.68e-001 X	0	0.667810047456012
68	71 (114,134,143)	0.999931	Y = 7.23e-001 X - 4.98e-005	-4.98190917793129E-5	0.722752515112727
69	72 (122,131,133,142)	0.999449	Y = 9.10e-001 X + 3.08e-005	3.08330844184107E-5	0.909899834256396
70	73 (146,165,188)	0.999400	Y = 7.70e-001 X - 2.03e-004	-0.00020339435802696	0.769962935508434
71	74 (105,132,161)	0.999767	Y = 9.52e-001 X + 6.02e-003	0.00601752587500659	0.951841176243564
72	75 (153)	0.998562	Y = 8.51e-001 X + 2.93e-002	0.0293280006245227	0.851370454782979
73	76 (127,168,184)	1.000000	Y = 5.92e-001 X	0	0.591994703352968
74	77 (141)	0.999044	Y = 5.67e-001 X + 2.27e-003	0.0022655616756212	0.566504329119374
75	78 (179)	0.999848	Y = 6.73e-001 X + 1.25e-003	0.00125319296049942	0.672623789082976
76	79 (137)	0.998386	Y = 4.75e-001 X + 2.13e-004	0.000212648412502237	0.475430368865089



Project Name: GC24\_Mar\_2009 Current Time: 15:17:34  
Sample Set Name: GC24\_cc\_081109 Current Date: 09/11/2009  
Processing Method: CSGB\_LL1X\_081109 Calibration ID: 26326  
Run Time: 60 Minutes Calibration Date(s): 08/11/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.998696	Y = 1.48e+000 X - 2.08e-005	-2.08120131819922E-5	1.479913827085
78	82 (138,163,164)	0.999282	Y = 8.19e-001 X + 3.34e-002	0.0334154715570687	0.819483518529027
79	83 (158,160,186)	0.999556	Y = 9.23e-001 X + 2.55e-003	0.00254591693091666	0.922922939018704
80	84 (126,129)	0.999298	Y = 3.14e+000 X - 2.14e-004	-0.00021358983264790	3.14414563343974
81	85 (166,178)	0.999480	Y = 4.30e-001 X - 5.05e-004	-0.00050455471466709	0.429758573861329
82	87 (175,159)	0.999931	Y = 4.73e-001 X + 4.52e-004	0.0004519080976087	0.472812268980781
83	88 (182,187)	0.998920	Y = 7.89e-001 X + 4.95e-002	0.0494523153828403	0.788972343735158
84	89 (128,162)	0.997648	Y = 1.10e+000 X + 2.06e-003	0.00205939837433126	1.09908350022731
85	90 (183)	0.999519	Y = 7.75e-001 X + 5.81e-003	0.00581013934655417	0.774820179713237
86	91 (167)	0.999857	Y = 7.30e-001 X - 1.64e-004	-0.00016438804258090	0.729806830278397
87	92 (185)	0.999372	Y = 1.12e+000 X + 5.30e-003	0.00529945150046296	1.11614502579024
88	93 (174,181)	0.999291	Y = 7.81e-001 X + 2.24e-002	0.0224045795353773	0.780518860653611
89	94 (177)	0.999549	Y = 7.02e-001 X + 2.78e-003	0.00278482255196844	0.702381159185907
90	95 (156,171)	0.999320	Y = 7.60e-001 X + 2.81e-003	0.00281201919812191	0.760161984269358
91	96 (157,202)	0.999621	Y = 5.30e+000 X + 8.61e-004	0.000861207906853012	5.29762774467856
92	98 (173)	0.999015	Y = 8.76e-001 X - 4.92e-005	-4.91924787146408E-5	0.87609026046385
93	99 (201)	0.999993	Y = 7.12e-001 X - 4.82e-004	-0.00048161381275635	0.712161974033171
94	100 (172,204)	0.999489	Y = 7.16e-001 X + 3.28e-004	0.000327797519089845	0.716087090641823
95	101 (192,197)	0.995992	Y = 7.63e-001 X + 1.98e-004	0.000198352885638464	0.762770721157208
96	102 (180)	0.998853	Y = 9.08e-001 X + 8.61e-002	0.0860903591141868	0.907814680851912
97	103 (193)	0.999819	Y = 7.66e-001 X + 9.65e-004	0.000965194315897588	0.766425840573351
98	104 (191)	0.996408	Y = 7.56e-001 X - 9.62e-004	-0.00096219656744037	0.756269460965951
99	105 (200,169)	0.999207	Y = 8.27e-001 X - 1.40e-003	-0.00140251792482809	0.827264508128271
100	106 (170)	0.999765	Y = 1.44e+000 X + 2.19e-002	0.0219323160724991	1.44374145544274
101	107 (190)	0.999697	Y = 1.24e+000 X - 4.65e-003	-0.0046504466336485	1.24061229994555
102	108 (198)	0.999519	Y = 1.14e+000 X - 3.46e-004	-0.00034613057646637	1.1420918800696
103	109 (199)	0.999580	Y = 5.48e-001 X + 9.69e-003	0.00968688484646085	0.54827562588412
104	110 (196,203)	0.999704	Y = 6.05e-001 X + 1.36e-002	0.0135957885238733	0.605373129015651
105	111 (189)	0.999911	Y = 1.22e+000 X - 1.78e-004	-0.00017820437388588	1.22364019324077
106	112 (195)	0.999751	Y = 1.66e+000 X - 4.89e-003	-0.00489467024951451	1.66431055622408
107	113 (208)	0.996340	Y = 6.15e-001 X + 5.10e-004	0.000509772629234212	0.615320805112756
108	114 (207)	0.999514	Y = 1.17e+000 X + 5.89e-004	0.000589321084392108	1.16603943746947
109	115 (194)	0.999762	Y = 1.35e+000 X + 1.21e-002	0.0120573709493725	1.35223375052419
110	116 (205)	0.999763	Y = 9.98e-001 X - 5.33e-004	-0.00053284801212402	0.997941138816265
111	117 (206)	0.999854	Y = 1.30e+000 X + 3.71e-004	0.000371302153932662	1.3021720323857
112	118 (209)	0.999434	Y = 9.66e-001 X - 4.02e-006	-4.01961764620942E-6	0.965803898360105
113	I.S. (OCN)	1.000000	Y = 9.93e+003 X	0	9931.59929649423

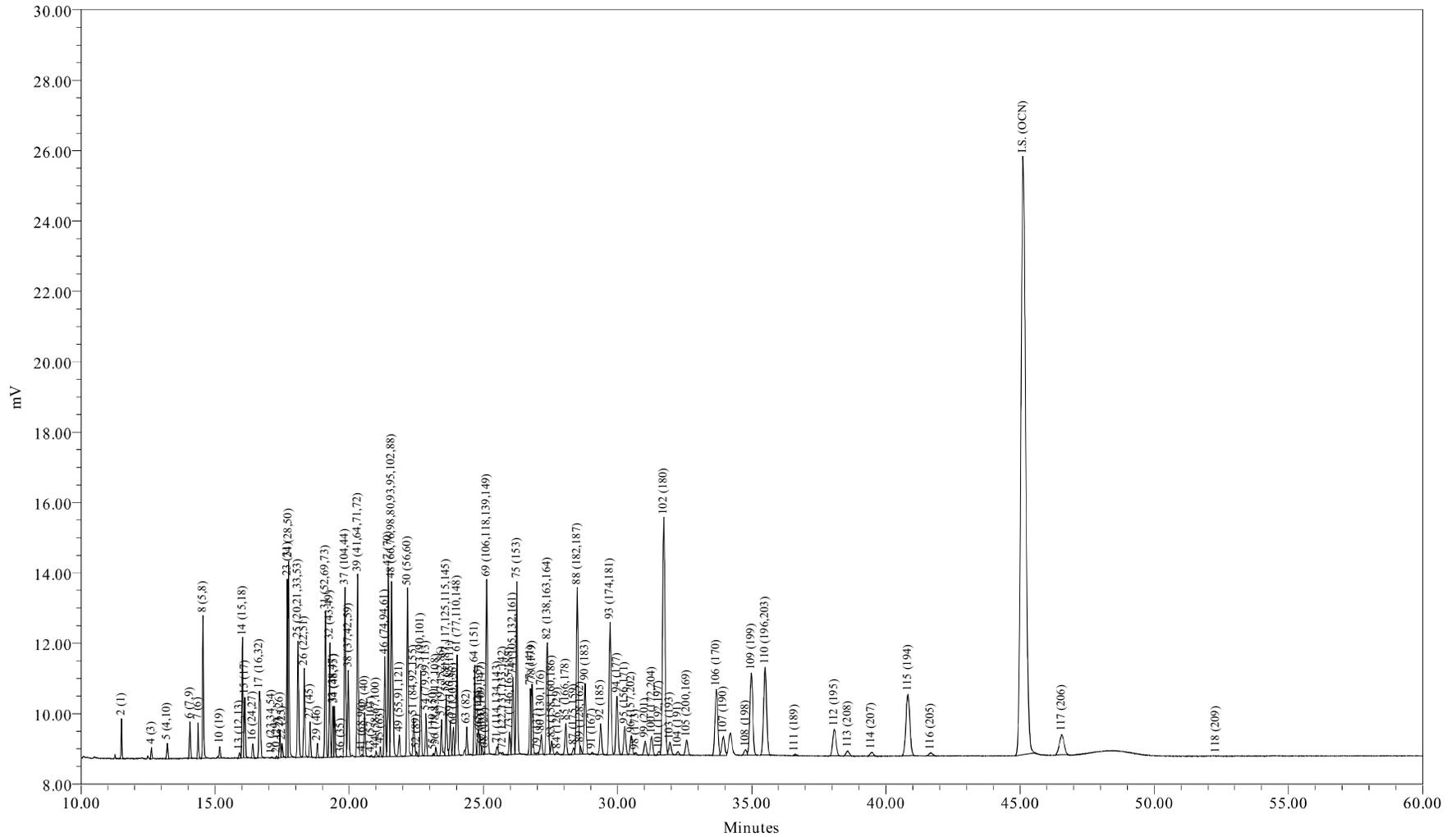
# Standards Raw Data



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: CCCS0823E  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 8/24/2009 9:40:09 AM EDT

Sample Amount (L): 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-150-25

Sample Name: CCCS0823E

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/24/2009 09:40:09  
 Lab Sample ID: CCCS0823E  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-150-25

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 110 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.66	15.91
Di	12.54	15.76
Tri	17.93	19.60
Tetra	21.23	20.54
Penta	8.62	7.40
Hexa	7.92	6.23
Hepta	13.28	9.48
Octa	7.13	4.68
Nona	0.67	0.41
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.3931	38.2	31.2
A1242	23+24/31+28	5.5202	28.5	23.3
A1254SED	61/100	1.4802	7.65	
A1254BIO	69+75+82/149+153+138	5.8507		24.7
A1260	102/180	3.8162	19.7	16.1
A1268	115/194	1.1404	5.89	4.81

Ortho Cl / biphenyl Residue = 1.59

Meta + Para Cl / biphenyl Residue = 2.12

Total Cl / biphenyl Residue = 3.70

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/24/2009 09:40:09  
 Lab Sample ID: CCCS0823E  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-150-25

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.51	188.7	2027	7.39	39.2			
3	12.52	188.7		-	-			
4	12.62	188.7	617	4.35	23.1			
5	13.21	223.1	1335	2.12	9.50			
6	14.06	223.1	3117	0.689	3.09			
7	14.36	223.1	2521	1.16	5.20			
8	14.55	223.1	10595	9.03	40.5			
9	15.10	223.1		-	-			
10	15.17	257.5	844	0.246	0.956			
11	15.64	257.5		-	-			
12	15.71	223.1		-	-			
13	15.91	223.1	517	0.164	0.736			
14	16.02	249.0	9694	2.65	10.6			
15	16.11	257.5	5048	2.72	10.6			
16	16.40	257.5	1128	0.201	0.781			
17	16.65	257.5	8688	2.74	10.6			
19	17.12	267.9	105	0.0278	0.104			
20	17.30	257.5	196	0.0327	0.127			
21	17.42	257.5	2220	0.540	2.10			
22	17.50	257.5	1248	0.229	0.889			
23	17.69	257.5	13189	2.63	10.2			
24	17.74	257.5	16577	2.89	11.2			
25	18.09	259.5	11743	2.69	10.4			
26	18.32	258.7	7719	1.86	7.18			
27	18.54	292.0	2955	0.641	2.20			
28	18.69	257.5		-	-			
29	18.81	292.0	1160	0.295	1.01			
30	18.95	257.5		-	-			
31	19.11	292.0	12393	3.62	12.4			
32	19.27	292.0	10193	1.49	5.09			
33	19.39	292.0	4340	0.440	1.51			
34	19.45	292.0	4346	0.635	2.17			
35	19.59	292.0		-	-			
36	19.68	257.5	80	0.0274	0.106			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.84	292.0	14986	2.77	9.49			
38	19.97	272.4	8867	2.03	7.44			
39	20.31	292.0	17101	2.47	8.46			
41	20.48	326.4	248	0.0614	0.188			
42	20.57	292.0	3986	0.707	2.42			
43	20.82	298.9	187	0.0330	0.111			
44	21.00	298.9	600	0.0755	0.252			
45	21.16	292.0	893	0.113	0.385			
46	21.32	292.0	9084	0.886	3.03			
47	21.45	292.0	17314	2.13	7.31			
48	21.57	293.5	23227	4.28	14.6			
49	21.86	324.7	2217	0.366	1.13			
50	22.17	292.0	15723	1.90	6.52			
51	22.40	326.4	4580	1.49	4.56			
52	22.51	326.4	388	0.0668	0.205			
53	22.66	326.4	8269	1.21	3.71			
54	22.86	326.4	4072	0.387	1.19			
55	23.14	326.4	177	0.0120	0.0368			
56	23.22	326.4	727	0.132	0.404			
57	23.44	326.4	3586	0.408	1.25			
58	23.61	326.4	6146	0.810	2.48			
59	23.76	326.4	3446	0.368	1.13			
60	23.88	360.9	2643	0.374	1.04			
61	24.01	326.4	10205	1.48	4.53			
62	24.30	360.9	-	-	-			
63	24.38	326.4	2901	0.356	1.09			
64	24.68	360.9	8311	1.11	3.08			
65	24.81	350.5	2345	0.195	0.555			
66	24.87	360.9	1919	0.395	1.09			
67	24.94	336.8	577	0.0812	0.241			
68	25.05	326.4	162	0.0210	0.0644			
69	25.12	337.5	20306	2.44	7.23			
70	25.24	360.9	-	-	-			
71	25.51	347.8	1012	0.120	0.345			
72	25.71	336.8	185	0.0173	0.0515			
73	25.98	360.9	2226	0.248	0.686			
74	26.10	347.8	8948	0.798	2.29			
75	26.25	360.9	18455	1.82	5.04			
76	26.36	360.9	-	-	-			
77	26.75	360.9	6889	1.04	2.87			
78	26.81	395.3	7503	0.952	2.41			
79	27.02	360.9	234	0.0417	0.116			
80	27.16	360.9	2742	0.159	0.439			
82	27.38	360.9	15621	1.59	4.41			
83	27.55	360.9	1673	0.152	0.422			
84	27.75	360.9	341	0.00935	0.0259			
85	28.07	395.3	3888	0.775	1.96			
87	28.36	395.3	798	0.144	0.363			
88	28.50	395.3	22253	2.35	5.95			
89	28.61	360.9	777	0.0586	0.162			
90	28.79	395.3	9801	1.07	2.72			
91	29.05	360.9	235	0.0278	0.0769			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.36	394.3	4253	0.321	0.815			
93	29.72	394.3	18864	2.04	5.17			
94	29.98	394.3	8960	1.09	2.76			
95	30.26	382.2	4371	0.488	1.28			
96	30.51	429.8	2973	0.0478	0.111			
98	30.66	395.3	296	0.0289	0.0732			
99	31.02	429.8	2180	0.263	0.611			
100	31.27	395.3	2937	0.350	0.887			
101	31.53	429.8	513	0.0573	0.133			
102	31.73	395.3	41501	3.82	9.65			
103	31.95	395.3	2335	0.259	0.656			
104	32.25	395.3	539	0.0622	0.157			
105	32.57	429.8	2644	0.275	0.640			
106	33.68	395.3	13238	0.769	1.95			
107	33.94	395.3	3992	0.279	0.706			
108	34.77	429.8	1224	0.0920	0.214			
109	34.98	429.8	18002	2.79	6.49			
110	35.50	429.8	19716	2.76	6.43			
111	36.60	395.3	317	0.0223	0.0565			
112	38.07	429.8	6885	0.357	0.830			
113	38.58	464.2	1284	0.178	0.383			
114	39.45	464.2	963	0.0701	0.151			
115	40.82	429.8	18166	1.14	2.65			
116	41.67	429.8	826	0.0714	0.166			
117	46.55	464.2	7493	0.492	1.06			
118	52.27	498.6	43	0.00382	0.00766			

Total Concentration = 110 ng/mL

Total Nanomoles = 0.391

Average Molecular Weight = 281.7

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 212503.3

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/24/2009 09:40:09  
 Lab Sample ID: CCCS0823E  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-150-25

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2552	2	6.711	10.019
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003	0.2798	4	3.949	5.895
5	13.21	2:2	004 010	0.2928	2-2; 26	1.924	2.429
6	14.06	2:1	007 009	0.3117	24; 25	0.625	0.790
7	14.36	2:1	006	0.3183	2-3	1.054	1.330
8	14.55	2:1	005 008	0.3225	23; 2-4	8.196	10.348
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3363	26-2	0.223	0.244
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013	0.3527	34; 3-4	0.149	0.188
14	16.02	2:0 3:2	015 018	0.3551	4-4; 25-2	2.402	2.717
15	16.11	3:2	017	0.3571	24-2	2.473	2.705
16	16.40	3:2	024 027	0.3636	236; 26-3	0.183	0.200
17	16.65	3:2	016 032	0.3691	23-2; 26-4	2.489	2.722
19	17.12	3:1 4:4	023 034 054	0.3795	235; 35-2; 26-26	0.025	0.027
20	17.30	3:1	029	0.3835	245	0.030	0.033
21	17.42	3:1	026	0.3862	25-3	0.491	0.537
22	17.50	3:1	025	0.3879	24-3	0.208	0.227
23	17.69	3:1	031	0.3922	25-4	2.387	2.611
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	2.624	2.871
25	18.09	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	2.439	2.647
26	18.32	3:1 4:3	022 051	0.4061	23-4; 24-26	1.686	1.836
27	18.54	4:3	045	0.4110	236-2	0.582	0.562
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4170	23-26	0.268	0.259
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	3.287	3.171
32	19.27	4:2	043 049	0.4272	235-2; 24-25	1.348	1.301
33	19.39	4:2	038 047	0.4298	345; 24-24	0.400	0.386
34	19.45	4:2	048 075	0.4312	245-2; 246-4	0.576	0.556
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035	0.4363	34-3	0.025	0.027
37	19.84	5:4 4:2	104 044	0.4398	246-26; 23-25	2.516	2.427
38	19.97	3:0 4:2	037 042 059	0.4427	34-4; 23-24; 236-3	1.839	1.902
39	20.31	4:2	041 064 071 072	0.4502	234-2; 236-4; 26-34; 25-35	2.244	2.164

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096	0.4540	24-35; 236-26	0.056	0.048
42	20.57	4:2	040	0.4560	23-23	0.642	0.619
43	20.82	4:1 5:3	057 103	0.4615	235-3; 246-25	0.030	0.028
44	21.00	4:1 5:3	058 067 100	0.4655	23-35; 245-3; 246-24	0.069	0.065
45	21.16	4:1	063	0.4691	235-4	0.102	0.099
46	21.32	4:1 5:3	074 094 061	0.4726	245-4; 235-26; 2345	0.804	0.776
47	21.45	4:1	070	0.4755	25-34	1.937	1.869
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088	0.4782	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.882	3.726
49	21.86	4:1 5:3	055 091 121	0.4846	234-3; 236-24; 246-35	0.332	0.288
50	22.17	4:1	056 060	0.4915	23-34; 234-4	1.727	1.666
51	22.40	5:3 6:4	084 092 155	0.4966	236-23; 235-25; 246-246	1.350	1.165
52	22.51	5:3	089	0.4990	234-26	0.061	0.052
53	22.66	5:2	090 101	0.5023	235-24; 245-25	1.100	0.949
54	22.86	5:2	079 099 113	0.5068	34-35; 245-24; 236-35	0.352	0.303
55	23.14	5:2 6:4	119 150	0.5130	246-34; 236-246	0.011	0.009
56	23.22	5:2	078 083 112 108	0.5147	345-3; 235-23; 2356-3; 2346-3	0.120	0.103
57	23.44	5:2 6:4	097 152 086	0.5196	245-23; 2356-26; 2345-2	0.370	0.319
58	23.61	5:2	081 087 117 125 115 145	0.5234	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.735	0.635
59	23.76	5:2	116 085 111	0.5267	23456; 234-24; 235-35	0.334	0.288
60	23.88	6:4	120 136	0.5294	245-35; 236-236	0.339	0.265
61	24.01	5:2	077 110 148	0.5323	34-34; 236-34; 235-246	1.344	1.160
62	24.30	6:3	154		245-246	-	-
63	24.38	5:2	082	0.5405	234-23	0.323	0.279
64	24.68	6:3	151	0.5471	2356-25	1.008	0.787
65	24.81	5:1 6:3	124 135	0.5500	345-25; 235-236	0.177	0.142
66	24.87	6:3	144	0.5513	2346-25	0.358	0.280
67	24.94	5:1 6:3	107 109 147	0.5529	234-35; 235-34; 2356-24	0.074	0.062
68	25.05	5:1	123	0.5553	345-24	0.019	0.016
69	25.12	5:1 6:3	106 118 139 149	0.5569	2345-3; 245-34; 2346-24; 236-245	2.216	1.849
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143	0.5655	2345-4; 2356-23; 2345-26	0.109	0.088
72	25.71	5:1 6:3	122 131 133 142	0.5699	345-23; 2346-23; 235-235; 23456-2	0.016	0.013
73	25.98	6:2	146 165 188	0.5759	235-245; 2356-35; 2356-246	0.225	0.175
74	26.10	5:1 6:3	105 132 161	0.5786	234-34; 234-236; 2346-35	0.724	0.587
75	26.25	6:2	153	0.5819	245-245	1.652	1.290
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.75	6:2	141	0.5930	2345-25	0.941	0.734
78	26.81	7:4	179	0.5943	2356-236	0.865	0.616
79	27.02	6:2	137	0.5990	2345-24	0.038	0.030
80	27.16	6:2 7:4	130 176	0.6021	234-235; 2346-236	0.144	0.112
82	27.38	6:2	138 163 164	0.6070	234-245; 2356-34; 236-345	1.443	1.127
83	27.55	6:2	158 160 186	0.6107	2346-34; 23456-3; 23456-26	0.138	0.108
84	27.75	6:2	126 129	0.6152	345-34; 2345-23	0.008	0.007
85	28.07	7:3	166 178	0.6223	23456-4; 2356-235	0.704	0.501
87	28.36	7:3	175 159	0.6287	2346-235; 2345-35	0.130	0.093
88	28.50	7:3	182 187	0.6318	2345-246; 2356-245	2.134	1.520
89	28.61	6:2	128 162	0.6342	234-234; 235-345	0.053	0.042
90	28.79	7:3	183	0.6382	2346-245	0.976	0.695
91	29.05	6:1	167	0.6440	245-345	0.025	0.020
92	29.36	7:3	185	0.6509	23456-25	0.292	0.208
93	29.72	7:3	174 181	0.6588	2345-236; 23456-24	1.851	1.322
94	29.98	7:3	177	0.6646	2356-234	0.987	0.705
95	30.26	6:1 7:3	156 171	0.6708	2345-34; 2346-234	0.443	0.327
96	30.51	8:4	157 202	0.6763	234-345; 2356-2356	0.043	0.028
98	30.66	7:3	173	0.6797	23456-23	0.026	0.019
99	31.02	8:4	201	0.6877	2346-2356	0.238	0.156
100	31.27	7:2	172 204	0.6932	2345-235; 23456-246	0.318	0.227
101	31.53	8:4	192 197	0.6990	23456-35; 2346-2346	0.052	0.034
102	31.73	7:2	180	0.7034	2345-245	3.464	2.469
103	31.95	7:2	193	0.7083	2356-345	0.235	0.168
104	32.25	7:2	191	0.7149	2346-345	0.057	0.040
105	32.57	8:4	200 169	0.7220	23456-236; 345-345	0.250	0.164
106	33.68	7:2	170	0.7466	2345-234	0.698	0.498

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.94	7:2	<b>190</b>	0.7524	23456-34	0.253	0.180
108	34.77	8:3	<b>198</b>	0.7708	23456-235	0.083	0.055
109	34.98	8:3	<b>199</b>	0.7754	2345-2356	2.534	1.661
110	35.50	8:3	<b>196 203</b>	0.7870	2345-2346; 23456-245	2.509	1.644
111	36.60	7:1	<b>189</b>	0.8114	2345-345	0.020	0.014
112	38.07	8:3	<b>195</b>	0.8439	23456-234	0.324	0.212
113	38.58	9:4	<b>208</b>	0.8552	23456-2356	0.161	0.098
114	39.45	9:4	<b>207</b>	0.8745	23456-2346	0.064	0.039
115	40.82	8:2	<b>194</b>	0.9049	2345-2345	1.035	0.679
116	41.67	8:2	<b>205</b>	0.9237	23456-345	0.065	0.042
117	46.55	9:3	<b>206</b>	1.032	23456-2345	0.447	0.271
118	52.27	10:4	<b>209</b>	1.159	23456-23456	0.003	0.002

Concentration = 110 ng/mL

Total Nanomoles = 0.391

Average Molecular Weight = 281.7

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

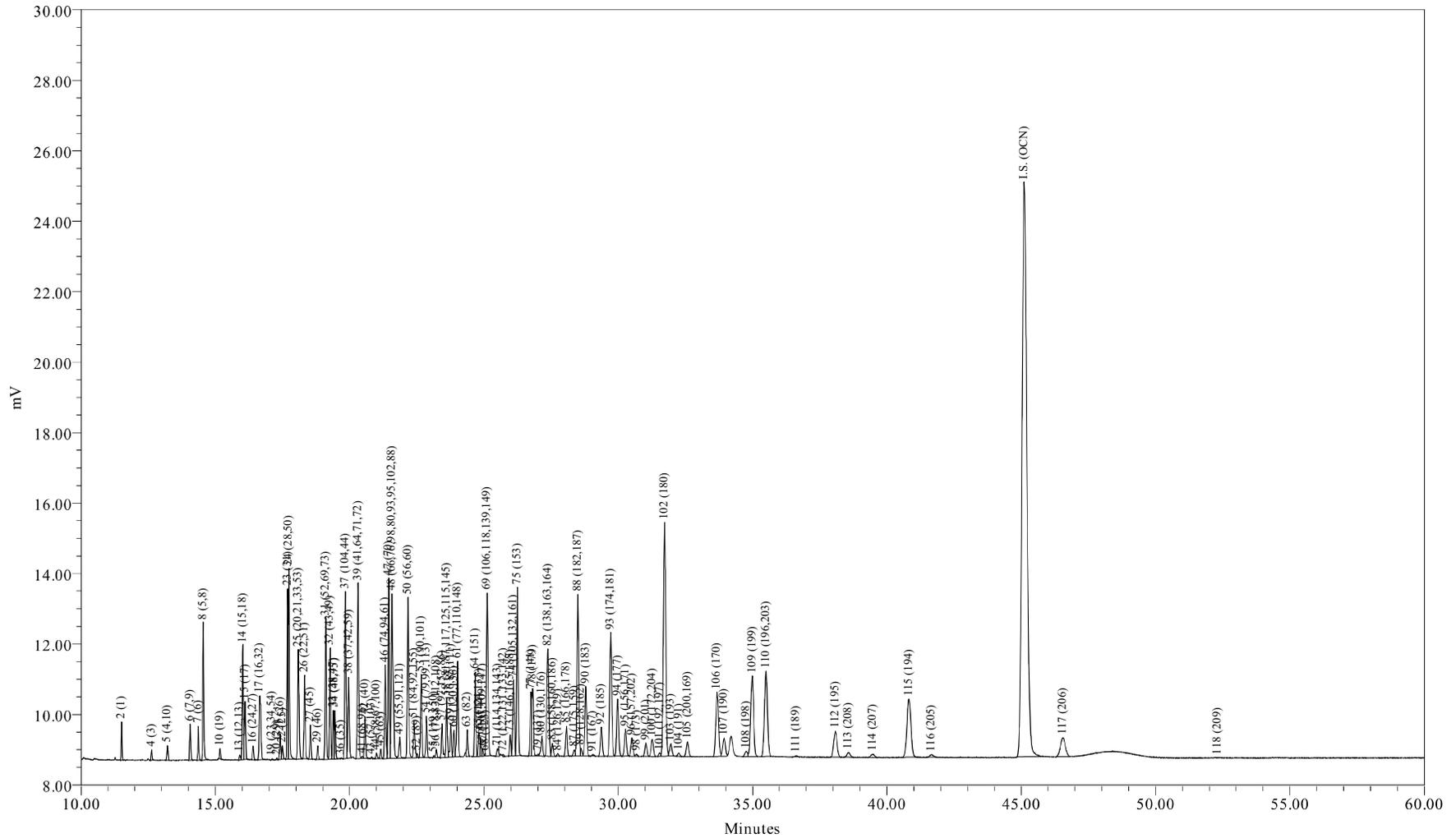
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: CCCS0824A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 8/24/2009 3:07:26 PM EDT

Sample Amount (L): 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-151-5

Sample Name: CCCS0824A

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/24/2009 15:07:26  
 Lab Sample ID: CCCS0824A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-151-5

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 110 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.99	16.37
Di	12.54	15.72
Tri	17.87	19.48
Tetra	21.28	20.54
Penta	8.58	7.34
Hexa	7.80	6.13
Hepta	13.22	9.41
Octa	7.09	4.64
Nona	0.64	0.39
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.4186	38.3	31.2
A1242	23+24/31+28	5.5249	28.5	23.3
A1254SED	61/100	1.4628	7.55	
A1254BIO	69+75+82/149+153+138	5.8450		24.6
A1260	102/180	3.8151	19.7	16.1
A1268	115/194	1.1469	5.92	4.83

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.11

Total Cl / biphenyl Residue = 3.68

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/24/2009 15:07:26  
 Lab Sample ID: CCCS0824A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-151-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.51	188.7	1954	7.42	39.3			
3	12.52	188.7		-	-			
4	12.62	188.7	635	4.66	24.7			
5	13.21	223.1	1242	2.05	9.19			
6	14.06	223.1	3070	0.707	3.17			
7	14.37	223.1	2398	1.15	5.15			
8	14.55	223.1	10219	9.06	40.6			
9	15.10	223.1		-	-			
10	15.17	257.5	684	0.207	0.803			
11	15.64	257.5		-	-			
12	15.71	223.1		-	-			
13	15.91	223.1	492	0.163	0.729			
14	16.02	249.0	9248	2.63	10.5			
15	16.11	257.5	4912	2.76	10.7			
16	16.41	257.5	1072	0.199	0.773			
17	16.65	257.5	8370	2.75	10.7			
19	17.11	267.9	103	0.0283	0.105			
20	17.29	257.5	129	0.0222	0.0863			
21	17.41	257.5	2051	0.520	2.02			
22	17.50	257.5	1100	0.210	0.815			
23	17.69	257.5	12642	2.62	10.2			
24	17.74	257.5	15991	2.90	11.3			
25	18.09	259.5	11230	2.67	10.3			
26	18.32	258.7	7354	1.84	7.12			
27	18.54	292.0	2868	0.648	2.22			
28	18.69	257.5		-	-			
29	18.81	292.0	1143	0.303	1.04			
30	18.95	257.5		-	-			
31	19.11	292.0	11984	3.64	12.5			
32	19.27	292.0	9787	1.48	5.08			
33	19.39	292.0	4109	0.434	1.48			
34	19.45	292.0	4273	0.649	2.22			
35	19.59	292.0		-	-			
36	19.68	257.5	60	0.0214	0.0830			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.84	292.0	14378	2.77	9.48			
38	19.97	272.4	8362	1.99	7.30			
39	20.31	292.0	16393	2.47	8.44			
41	20.48	326.4	212	0.0545	0.167			
42	20.57	292.0	3794	0.700	2.40			
43	20.82	298.9	144	0.0266	0.0888			
44	21.00	298.9	575	0.0752	0.252			
45	21.16	292.0	864	0.113	0.388			
46	21.32	292.0	8763	0.889	3.05			
47	21.45	292.0	16682	2.14	7.33			
48	21.57	293.5	22328	4.28	14.6			
49	21.86	324.7	2137	0.367	1.13			
50	22.17	292.0	15031	1.89	6.48			
51	22.40	326.4	4381	1.48	4.53			
52	22.51	326.4	361	0.0646	0.198			
53	22.66	326.4	7933	1.21	3.71			
54	22.86	326.4	3888	0.385	1.18			
55	23.13	326.4	200	0.0141	0.0433			
56	23.23	326.4	679	0.128	0.392			
57	23.44	326.4	3480	0.412	1.26			
58	23.61	326.4	5630	0.772	2.36			
59	23.76	326.4	3599	0.400	1.22			
60	23.88	360.9	2488	0.366	1.02			
61	24.02	326.4	9693	1.46	4.48			
62	24.30	360.9	-	-	-			
63	24.38	326.4	2600	0.332	1.02			
64	24.68	360.9	8038	1.12	3.10			
65	24.81	350.5	2301	0.199	0.567			
66	24.87	360.9	1752	0.375	1.04			
67	24.94	336.8	579	0.0849	0.252			
68	25.05	326.4	132	0.0177	0.0543			
69	25.12	337.5	19465	2.43	7.21			
70	25.24	360.9	-	-	-			
71	25.51	347.8	1039	0.128	0.368			
72	25.71	336.8	183	0.0179	0.0531			
73	25.98	360.9	2072	0.240	0.665			
74	26.10	347.8	8501	0.789	2.27			
75	26.25	360.9	17684	1.81	5.03			
76	26.36	360.9	-	-	-			
77	26.75	360.9	5997	0.939	2.60			
78	26.81	395.3	7784	1.03	2.60			
79	27.02	360.9	193	0.0357	0.0990			
80	27.16	360.9	2600	0.156	0.434			
82	27.38	360.9	15061	1.60	4.42			
83	27.55	360.9	1564	0.148	0.410			
84	27.75	360.9	282	0.00804	0.0223			
85	28.07	395.3	3666	0.761	1.92			
87	28.37	395.3	663	0.124	0.313			
88	28.50	395.3	21282	2.34	5.92			
89	28.61	360.9	812	0.0639	0.177			
90	28.79	395.3	9280	1.06	2.68			
91	29.05	360.9	214	0.0264	0.0731			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.37	394.3	3985	0.313	0.794			
93	29.72	394.3	18048	2.03	5.15			
94	29.98	394.3	8385	1.06	2.69			
95	30.27	382.2	3982	0.463	1.21			
96	30.51	429.8	2754	0.0461	0.107			
98	30.68	395.3	274	0.0279	0.0706			
99	31.03	429.8	2037	0.255	0.594			
100	31.26	395.3	2805	0.348	0.881			
101	31.54	429.8	439	0.0510	0.119			
102	31.72	395.3	39868	3.82	9.65			
103	31.96	395.3	2092	0.242	0.612			
104	32.26	395.3	516	0.0620	0.157			
105	32.58	429.8	2701	0.292	0.680			
106	33.68	395.3	12632	0.764	1.93			
107	33.94	395.3	3505	0.255	0.646			
108	34.76	429.8	940	0.0736	0.171			
109	34.99	429.8	17195	2.77	6.46			
110	35.50	429.8	18775	2.74	6.37			
111	36.62	395.3	246	0.0180	0.0456			
112	38.08	429.8	6419	0.346	0.806			
113	38.57	464.2	1203	0.173	0.373			
114	39.48	464.2	886	0.0672	0.145			
115	40.82	429.8	17554	1.15	2.67			
116	41.65	429.8	796	0.0715	0.166			
117	46.55	464.2	6821	0.466	1.00			
118	52.30	498.6	10	0.000887	0.00178			

Total Concentration = 110 ng/mL

Total Nanomoles = 0.391

Average Molecular Weight = 281.1

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 204197.4

Northeast Analytical, Inc.  
2190 Technology Drive  
Schenectady, NY 12308  
(518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/24/2009 15:07:26  
 Lab Sample ID: CCCS0824A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-151-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2552	2	6.748	10.050
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003	0.2798	4	4.240	6.315
5	13.21	2:2	004 010	0.2928	2-2; 26	1.865	2.349
6	14.06	2:1	007 009	0.3117	24; 25	0.643	0.810
7	14.37	2:1	006	0.3186	2-3	1.045	1.316
8	14.55	2:1	005 008	0.3225	23; 2-4	8.244	10.385
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3363	26-2	0.188	0.205
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013	0.3527	34; 3-4	0.148	0.186
14	16.02	2:0 3:2	015 018	0.3551	4-4; 25-2	2.389	2.697
15	16.11	3:2	017	0.3571	24-2	2.510	2.740
16	16.41	3:2	024 027	0.3638	236; 26-3	0.181	0.198
17	16.65	3:2	016 032	0.3691	23-2; 26-4	2.500	2.729
19	17.11	3:1 4:4	023 034 054	0.3793	235; 35-2; 26-26	0.026	0.027
20	17.29	3:1	029	0.3833	245	0.020	0.022
21	17.41	3:1	026	0.3859	25-3	0.473	0.516
22	17.50	3:1	025	0.3879	24-3	0.191	0.208
23	17.69	3:1	031	0.3922	25-4	2.385	2.603
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	2.640	2.882
25	18.09	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	2.431	2.633
26	18.32	3:1 4:3	022 051	0.4061	23-4; 24-26	1.675	1.820
27	18.54	4:3	045	0.4110	236-2	0.589	0.567
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4170	23-26	0.275	0.265
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	3.315	3.191
32	19.27	4:2	043 049	0.4272	235-2; 24-25	1.350	1.299
33	19.39	4:2	038 047	0.4298	345; 24-24	0.394	0.380
34	19.45	4:2	048 075	0.4312	245-2; 246-4	0.591	0.569
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035	0.4363	34-3	0.019	0.021
37	19.84	5:4 4:2	104 044	0.4398	246-26; 23-25	2.517	2.422
38	19.97	3:0 4:2	037 042 059	0.4427	34-4; 23-24; 236-3	1.808	1.866
39	20.31	4:2	041 064 071 072	0.4502	234-2; 236-4; 26-34; 25-35	2.243	2.158

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096	0.4540	24-35; 236-26	0.050	0.043
42	20.57	4:2	040	0.4560	23-23	0.637	0.613
43	20.82	4:1 5:3	057 103	0.4615	235-3; 246-25	0.024	0.023
44	21.00	4:1 5:3	058 067 100	0.4655	23-35; 245-3; 246-24	0.068	0.064
45	21.16	4:1	063	0.4691	235-4	0.103	0.099
46	21.32	4:1 5:3	074 094 061	0.4726	245-4; 235-26; 2345	0.809	0.779
47	21.45	4:1	070	0.4755	25-34	1.946	1.873
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088	0.4782	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.891	3.726
49	21.86	4:1 5:3	055 091 121	0.4846	234-3; 236-24; 246-35	0.334	0.289
50	22.17	4:1	056 060	0.4915	23-34; 234-4	1.722	1.657
51	22.40	5:3 6:4	084 092 155	0.4966	236-23; 235-25; 246-246	1.346	1.159
52	22.51	5:3	089	0.4990	234-26	0.059	0.051
53	22.66	5:2	090 101	0.5023	235-24; 245-25	1.101	0.948
54	22.86	5:2	079 099 113	0.5068	34-35; 245-24; 236-35	0.350	0.301
55	23.13	5:2 6:4	119 150	0.5127	246-34; 236-246	0.013	0.011
56	23.23	5:2	078 083 112 108	0.5150	345-3; 235-23; 2356-3; 2346-3	0.116	0.100
57	23.44	5:2 6:4	097 152 086	0.5196	245-23; 2356-26; 2345-2	0.374	0.322
58	23.61	5:2	081 087 117 125 115 145	0.5234	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.702	0.604
59	23.76	5:2	116 085 111	0.5267	23456; 234-24; 235-35	0.364	0.313
60	23.88	6:4	120 136	0.5294	245-35; 236-236	0.333	0.260
61	24.02	5:2	077 110 148	0.5325	34-34; 236-34; 235-246	1.331	1.146
62	24.30	6:3	154		245-246	-	-
63	24.38	5:2	082	0.5405	234-23	0.302	0.260
64	24.68	6:3	151	0.5471	2356-25	1.017	0.792
65	24.81	5:1 6:3	124 135	0.5500	345-25; 235-236	0.181	0.145
66	24.87	6:3	144	0.5513	2346-25	0.341	0.265
67	24.94	5:1 6:3	107 109 147	0.5529	234-35; 235-34; 2356-24	0.077	0.064
68	25.05	5:1	123	0.5553	345-24	0.016	0.014
69	25.12	5:1 6:3	106 118 139 149	0.5569	2345-3; 245-34; 2346-24; 236-245	2.214	1.844
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143	0.5655	2345-4; 2356-23; 2345-26	0.116	0.094
72	25.71	5:1 6:3	122 131 133 142	0.5699	345-23; 2346-23; 235-235; 23456-2	0.016	0.014
73	25.98	6:2	146 165 188	0.5759	235-245; 2356-35; 2356-246	0.218	0.170
74	26.10	5:1 6:3	105 132 161	0.5786	234-34; 234-236; 2346-35	0.718	0.580
75	26.25	6:2	153	0.5819	245-245	1.651	1.286
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.75	6:2	141	0.5930	2345-25	0.854	0.665
78	26.81	7:4	179	0.5943	2356-236	0.935	0.665
79	27.02	6:2	137	0.5990	2345-24	0.033	0.025
80	27.16	6:2 7:4	130 176	0.6021	234-235; 2346-236	0.142	0.111
82	27.38	6:2	138 163 164	0.6070	234-245; 2356-34; 236-345	1.451	1.130
83	27.55	6:2	158 160 186	0.6107	2346-34; 23456-3; 23456-26	0.135	0.105
84	27.75	6:2	126 129	0.6152	345-34; 2345-23	0.007	0.006
85	28.07	7:3	166 178	0.6223	23456-4; 2356-235	0.692	0.492
87	28.37	7:3	175 159	0.6289	2346-235; 2345-35	0.113	0.080
88	28.50	7:3	182 187	0.6318	2345-246; 2356-245	2.127	1.513
89	28.61	6:2	128 162	0.6342	234-234; 235-345	0.058	0.045
90	28.79	7:3	183	0.6382	2346-245	0.963	0.685
91	29.05	6:1	167	0.6440	245-345	0.024	0.019
92	29.37	7:3	185	0.6511	23456-25	0.285	0.203
93	29.72	7:3	174 181	0.6588	2345-236; 23456-24	1.846	1.316
94	29.98	7:3	177	0.6646	2356-234	0.963	0.686
95	30.27	6:1 7:3	156 171	0.6710	2345-34; 2346-234	0.421	0.310
96	30.51	8:4	157 202	0.6763	234-345; 2356-2356	0.042	0.027
98	30.68	7:3	173	0.6801	23456-23	0.025	0.018
99	31.03	8:4	201	0.6879	2346-2356	0.232	0.152
100	31.26	7:2	172 204	0.6930	2345-235; 23456-246	0.317	0.225
101	31.54	8:4	192 197	0.6992	23456-35; 2346-2346	0.046	0.030
102	31.72	7:2	180	0.7032	2345-245	3.470	2.467
103	31.96	7:2	193	0.7085	2356-345	0.220	0.156
104	32.26	7:2	191	0.7151	2346-345	0.056	0.040
105	32.58	8:4	200 169	0.7222	23456-236; 345-345	0.266	0.174
106	33.68	7:2	170	0.7466	2345-234	0.695	0.494

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.94	7:2	<b>190</b>	0.7524	23456-34	0.232	0.165
108	34.76	8:3	<b>198</b>	0.7706	23456-235	0.067	0.044
109	34.99	8:3	<b>199</b>	0.7757	2345-2356	2.524	1.650
110	35.50	8:3	<b>196 203</b>	0.7870	2345-2346; 23456-245	2.491	1.629
111	36.62	7:1	<b>189</b>	0.8118	2345-345	0.016	0.012
112	38.08	8:3	<b>195</b>	0.8442	23456-234	0.315	0.206
113	38.57	9:4	<b>208</b>	0.8550	23456-2356	0.158	0.095
114	39.48	9:4	<b>207</b>	0.8752	23456-2346	0.061	0.037
115	40.82	8:2	<b>194</b>	0.9049	2345-2345	1.043	0.682
116	41.65	8:2	<b>205</b>	0.9233	23456-345	0.065	0.043
117	46.55	9:3	<b>206</b>	1.032	23456-2345	0.424	0.257
118	52.30	10:4	<b>209</b>	1.159	23456-23456	0.001	0.000

Concentration = 110 ng/mL

Total Nanomoles = 0.391

Average Molecular Weight = 281.1

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

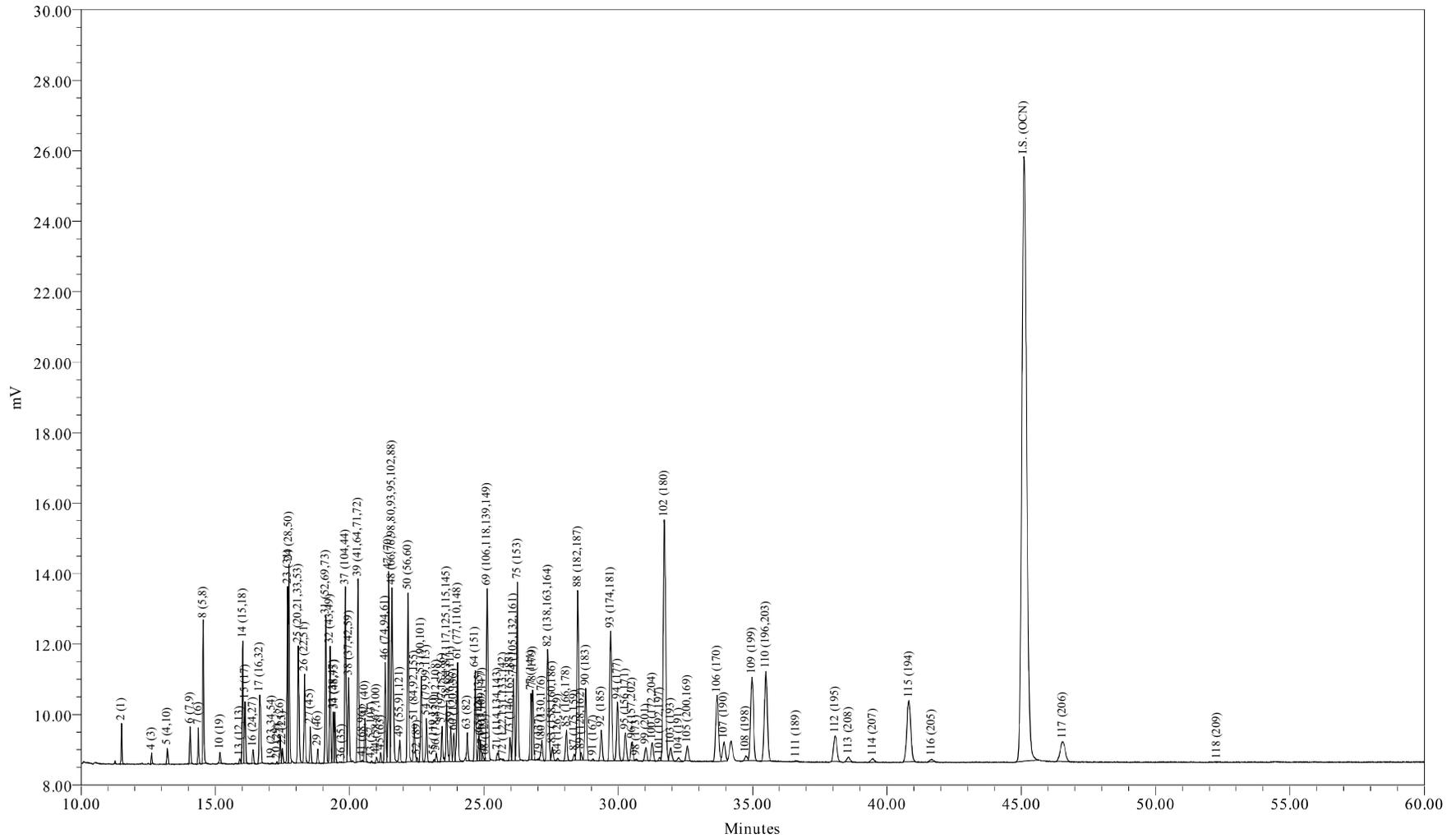
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: CCCS0826E  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 8/27/2009 3:51:12 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID:

Sample Name: CCCS0826E

1 of 1

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/27/2009 15:51:12  
 Lab Sample ID: CCCS0826E  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-153-26

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 110 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.73	15.99
Di	12.66	15.88
Tri	18.06	19.70
Tetra	21.21	20.49
Penta	8.60	7.36
Hexa	7.90	6.21
Hepta	13.20	9.41
Octa	7.00	4.58
Nona	0.63	0.38
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.4963	38.5	31.5
A1242	23+24/31+28	5.5435	28.5	23.3
A1254SED	61/100	1.4898	7.66	
A1254BIO	69+75+82/149+153+138	5.8269		24.5
A1260	102/180	3.7861	19.5	15.9
A1268	115/194	1.1448	5.88	4.81

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.11

Total Cl / biphenyl Residue = 3.69

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/27/2009 15:51:12  
 Lab Sample ID: CCCS0826E  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-153-26

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.51	188.7	2084	7.50	39.7			
3	12.52	188.7		-	-			
4	12.62	188.7	612	4.25	22.5			
5	13.21	223.1	1290	2.02	9.05			
6	14.06	223.1	3185	0.695	3.11			
7	14.36	223.1	2629	1.19	5.35			
8	14.55	223.1	10891	9.15	41.0			
9	15.10	223.1		-	-			
10	15.17	257.5	911	0.262	1.02			
11	15.64	257.5		-	-			
12	15.71	223.1		-	-			
13	15.91	223.1	487	0.152	0.683			
14	16.02	249.0	9701	2.61	10.5			
15	16.11	257.5	5238	2.79	10.8			
16	16.41	257.5	1059	0.186	0.723			
17	16.65	257.5	8879	2.76	10.7			
19	17.11	267.9	75	0.0196	0.0732			
20	17.30	257.5	138	0.0226	0.0876			
21	17.41	257.5	2183	0.524	2.03			
22	17.50	257.5	1318	0.238	0.926			
23	17.69	257.5	13327	2.62	10.2			
24	17.74	257.5	16996	2.92	11.4			
25	18.09	259.5	11811	2.66	10.3			
26	18.32	258.7	7820	1.86	7.17			
27	18.54	292.0	3002	0.643	2.20			
28	18.69	257.5		-	-			
29	18.81	292.0	1155	0.290	0.993			
30	18.95	257.5		-	-			
31	19.11	292.0	12527	3.61	12.4			
32	19.27	292.0	10284	1.48	5.06			
33	19.39	292.0	4345	0.435	1.49			
34	19.45	292.0	4393	0.633	2.17			
35	19.59	292.0		-	-			
36	19.70	257.5	57	0.0191	0.0743			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.84	292.0	15140	2.76	9.46			
38	19.97	272.4	8940	2.01	7.40			
39	20.31	292.0	17192	2.45	8.39			
41	20.47	326.4	219	0.0534	0.164			
42	20.57	292.0	3958	0.692	2.37			
43	20.82	298.9	143	0.0250	0.0835			
44	21.00	298.9	601	0.0746	0.249			
45	21.15	292.0	841	0.104	0.357			
46	21.32	292.0	9130	0.878	3.01			
47	21.45	292.0	17484	2.13	7.28			
48	21.57	293.5	23502	4.27	14.5			
49	21.86	324.7	2307	0.376	1.16			
50	22.17	292.0	15724	1.88	6.43			
51	22.40	326.4	4584	1.47	4.50			
52	22.51	326.4	308	0.0519	0.159			
53	22.66	326.4	8292	1.20	3.67			
54	22.86	326.4	4033	0.378	1.16			
55	23.14	326.4	199	0.0133	0.0408			
56	23.23	326.4	718	0.128	0.393			
57	23.44	326.4	3546	0.397	1.22			
58	23.61	326.4	6236	0.810	2.48			
59	23.76	326.4	3456	0.364	1.11			
60	23.88	360.9	2648	0.370	1.02			
61	24.02	326.4	10414	1.49	4.56			
62	24.30	360.9		-	-			
63	24.38	326.4	2767	0.335	1.03			
64	24.68	360.9	8432	1.11	3.08			
65	24.81	350.5	2359	0.193	0.551			
66	24.87	360.9	2012	0.408	1.13			
67	24.94	336.8	636	0.0883	0.262			
68	25.05	326.4	170	0.0217	0.0665			
69	25.12	337.5	20606	2.44	7.24			
70	25.24	360.9		-	-			
71	25.50	347.8	1045	0.122	0.351			
72	25.70	336.8	176	0.0163	0.0484			
73	25.97	360.9	2210	0.242	0.672			
74	26.10	347.8	8926	0.785	2.26			
75	26.24	360.9	18635	1.81	5.02			
76	26.36	360.9		-	-			
77	26.75	360.9	6801	1.01	2.80			
78	26.81	395.3	7630	0.955	2.42			
79	27.06	360.9	249	0.0437	0.121			
80	27.15	360.9	2695	0.154	0.426			
82	27.38	360.9	15665	1.57	4.36			
83	27.55	360.9	1630	0.146	0.405			
84	27.74	360.9	216	0.00587	0.0163			
85	28.07	395.3	3843	0.756	1.91			
87	28.36	395.3	747	0.132	0.335			
88	28.50	395.3	22239	2.32	5.86			
89	28.61	360.9	861	0.0642	0.178			
90	28.79	395.3	9686	1.05	2.65			
91	29.07	360.9	179	0.0209	0.0578			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.36	394.3	4191	0.312	0.791			
93	29.72	394.3	18896	2.01	5.11			
94	29.97	394.3	8917	1.07	2.71			
95	30.26	382.2	4360	0.480	1.26			
96	30.51	429.8	3034	0.0482	0.112			
98	30.66	395.3	308	0.0297	0.0752			
99	31.02	429.8	2254	0.268	0.623			
100	31.26	395.3	2912	0.343	0.867			
101	31.54	429.8	451	0.0496	0.115			
102	31.72	395.3	41758	3.79	9.58			
103	31.95	395.3	2434	0.267	0.675			
104	32.25	395.3	692	0.0785	0.198			
105	32.57	429.8	2614	0.268	0.624			
106	33.68	395.3	13561	0.777	1.97			
107	33.94	395.3	3887	0.268	0.678			
108	34.75	429.8	860	0.0639	0.149			
109	34.97	429.8	17629	2.70	6.27			
110	35.49	429.8	19616	2.71	6.31			
111	36.62	395.3	184	0.0128	0.0324			
112	38.07	429.8	6758	0.346	0.804			
113	38.58	464.2	1310	0.179	0.385			
114	39.48	464.2	798	0.0572	0.123			
115	40.82	429.8	18491	1.14	2.66			
116	41.67	429.8	843	0.0718	0.167			
117	46.54	464.2	7094	0.459	0.990			
118	52.28	498.6	10	0.000874	0.00175			

Total Concentration = 110 ng/mL

Total Nanomoles = 0.389

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.10 minutes

Internal Standard Peak Area = 215476.7

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/27/2009 15:51:12  
 Lab Sample ID: CCCS0826E  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-153-26

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2552	2	6.845	10.202
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003	0.2798	4	3.883	5.786
5	13.21	2:2	004 010	0.2929	2-2; 26	1.843	2.323
6	14.06	2:1	007 009	0.3118	24; 25	0.634	0.800
7	14.36	2:1	006	0.3184	2-3	1.090	1.374
8	14.55	2:1	005 008	0.3226	23; 2-4	8.360	10.538
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3364	26-2	0.239	0.262
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013	0.3528	34; 3-4	0.139	0.175
14	16.02	2:0 3:2	015 018	0.3552	4-4; 25-2	2.384	2.693
15	16.11	3:2	017	0.3572	24-2	2.547	2.781
16	16.41	3:2	024 027	0.3639	236; 26-3	0.170	0.186
17	16.65	3:2	016 032	0.3692	23-2; 26-4	2.523	2.756
19	17.11	3:1 4:4	023 034 054	0.3794	235; 35-2; 26-26	0.018	0.019
20	17.30	3:1	029	0.3836	245	0.021	0.023
21	17.41	3:1	026	0.3860	25-3	0.478	0.523
22	17.50	3:1	025	0.3880	24-3	0.218	0.238
23	17.69	3:1	031	0.3922	25-4	2.392	2.613
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	2.670	2.916
25	18.09	3:1 4:3	020 021 033 053	0.4011	23-3; 234; 34-2; 25-26	2.433	2.637
26	18.32	3:1 4:3	022 051	0.4062	23-4; 24-26	1.695	1.842
27	18.54	4:3	045	0.4111	236-2	0.587	0.565
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4171	23-26	0.265	0.255
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4237	25-25; 246-3; 26-35	3.296	3.175
32	19.27	4:2	043 049	0.4273	235-2; 24-25	1.350	1.300
33	19.39	4:2	038 047	0.4299	345; 24-24	0.397	0.382
34	19.45	4:2	048 075	0.4313	245-2; 246-4	0.578	0.556
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.70	3:0	035	0.4368	34-3	0.017	0.019
37	19.84	5:4 4:2	104 044	0.4399	246-26; 23-25	2.521	2.428
38	19.97	3:0 4:2	037 042 059	0.4428	34-4; 23-24; 236-3	1.839	1.899
39	20.31	4:2	041 064 071 072	0.4503	234-2; 236-4; 26-34; 25-35	2.237	2.155

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096	0.4539	24-35; 236-26	0.049	0.042
42	20.57	4:2	040	0.4561	23-23	0.632	0.609
43	20.82	4:1 5:3	057 103	0.4616	235-3; 246-25	0.023	0.021
44	21.00	4:1 5:3	058 067 100	0.4656	23-35; 245-3; 246-24	0.068	0.064
45	21.15	4:1	063	0.4690	235-4	0.095	0.092
46	21.32	4:1 5:3	074 094 061	0.4727	245-4; 235-26; 2345	0.802	0.772
47	21.45	4:1	070	0.4756	25-34	1.941	1.869
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088	0.4783	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.897	3.734
49	21.86	4:1 5:3	055 091 121	0.4847	234-3; 236-24; 246-35	0.343	0.297
50	22.17	4:1	056 060	0.4916	23-34; 234-4	1.713	1.650
51	22.40	5:3 6:4	084 092 155	0.4967	236-23; 235-25; 246-246	1.340	1.155
52	22.51	5:3	089	0.4991	234-26	0.047	0.041
53	22.66	5:2	090 101	0.5024	235-24; 245-25	1.094	0.943
54	22.86	5:2	079 099 113	0.5069	34-35; 245-24; 236-35	0.345	0.298
55	23.14	5:2 6:4	119 150	0.5131	246-34; 236-246	0.012	0.010
56	23.23	5:2	078 083 112 108	0.5151	345-3; 235-23; 2356-3; 2346-3	0.117	0.101
57	23.44	5:2 6:4	097 152 086	0.5197	245-23; 2356-26; 2345-2	0.363	0.313
58	23.61	5:2	081 087 117 125 115 145	0.5235	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.740	0.638
59	23.76	5:2	116 085 111	0.5268	23456; 234-24; 235-35	0.332	0.286
60	23.88	6:4	120 136	0.5295	245-35; 236-236	0.337	0.263
61	24.02	5:2	077 110 148	0.5326	34-34; 236-34; 235-246	1.360	1.172
62	24.30	6:3	154		245-246	-	-
63	24.38	5:2	082	0.5406	234-23	0.306	0.263
64	24.68	6:3	151	0.5472	2356-25	1.015	0.791
65	24.81	5:1 6:3	124 135	0.5501	345-25; 235-236	0.176	0.141
66	24.87	6:3	144	0.5514	2346-25	0.373	0.290
67	24.94	5:1 6:3	107 109 147	0.5530	234-35; 235-34; 2356-24	0.081	0.067
68	25.05	5:1	123	0.5554	345-24	0.020	0.017
69	25.12	5:1 6:3	106 118 139 149	0.5570	2345-3; 245-34; 2346-24; 236-245	2.230	1.859
70	25.24	6:3	140		234-246	-	-
71	25.50	5:1 6:3	114 134 143	0.5654	2345-4; 2356-23; 2345-26	0.111	0.090
72	25.70	5:1 6:3	122 131 133 142	0.5698	345-23; 2346-23; 235-235; 23456-2	0.015	0.012
73	25.97	6:2	146 165 188	0.5758	235-245; 2356-35; 2356-246	0.221	0.173
74	26.10	5:1 6:3	105 132 161	0.5787	234-34; 234-236; 2346-35	0.717	0.580
75	26.24	6:2	153	0.5818	245-245	1.655	1.290
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.75	6:2	141	0.5931	2345-25	0.921	0.718
78	26.81	7:4	179	0.5945	2356-236	0.872	0.621
79	27.06	6:2	137	0.6000	2345-24	0.040	0.031
80	27.15	6:2 7:4	130 176	0.6020	234-235; 2346-236	0.140	0.109
82	27.38	6:2	138 163 164	0.6071	234-245; 2356-34; 236-345	1.436	1.119
83	27.55	6:2	158 160 186	0.6109	2346-34; 23456-3; 23456-26	0.134	0.104
84	27.74	6:2	126 129	0.6151	345-34; 2345-23	0.005	0.004
85	28.07	7:3	166 178	0.6224	23456-4; 2356-235	0.690	0.491
87	28.36	7:3	175 159	0.6288	2346-235; 2345-35	0.121	0.086
88	28.50	7:3	182 187	0.6319	2345-246; 2356-245	2.114	1.504
89	28.61	6:2	128 162	0.6344	234-234; 235-345	0.059	0.046
90	28.79	7:3	183	0.6384	2346-245	0.956	0.680
91	29.07	6:1	167	0.6446	245-345	0.019	0.015
92	29.36	7:3	185	0.6510	23456-25	0.285	0.203
93	29.72	7:3	174 181	0.6590	2345-236; 23456-24	1.839	1.312
94	29.97	7:3	177	0.6645	2356-234	0.975	0.695
95	30.26	6:1 7:3	156 171	0.6710	2345-34; 2346-234	0.438	0.323
96	30.51	8:4	157 202	0.6765	234-345; 2356-2356	0.044	0.029
98	30.66	7:3	173	0.6798	23456-23	0.027	0.019
99	31.02	8:4	201	0.6878	2346-2356	0.244	0.160
100	31.26	7:2	172 204	0.6931	2345-235; 23456-246	0.313	0.223
101	31.54	8:4	192 197	0.6993	23456-35; 2346-2346	0.045	0.030
102	31.72	7:2	180	0.7033	2345-245	3.457	2.460
103	31.95	7:2	193	0.7084	2356-345	0.244	0.173
104	32.25	7:2	191	0.7151	2346-345	0.072	0.051
105	32.57	8:4	200 169	0.7222	23456-236; 345-345	0.245	0.160
106	33.68	7:2	170	0.7468	2345-234	0.710	0.505

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.94	7:2	<b>190</b>	0.7525	23456-34	0.245	0.174
108	34.75	8:3	<b>198</b>	0.7705	23456-235	0.058	0.038
109	34.97	8:3	<b>199</b>	0.7754	2345-2356	2.461	1.610
110	35.49	8:3	<b>196 203</b>	0.7869	2345-2346; 23456-245	2.476	1.620
111	36.62	7:1	<b>189</b>	0.8120	2345-345	0.012	0.008
112	38.07	8:3	<b>195</b>	0.8441	23456-234	0.316	0.206
113	38.58	9:4	<b>208</b>	0.8554	23456-2356	0.163	0.099
114	39.48	9:4	<b>207</b>	0.8754	23456-2346	0.052	0.032
115	40.82	8:2	<b>194</b>	0.9051	2345-2345	1.045	0.684
116	41.67	8:2	<b>205</b>	0.9239	23456-345	0.066	0.043
117	46.54	9:3	<b>206</b>	1.032	23456-2345	0.419	0.254
118	52.28	10:4	<b>209</b>	1.159	23456-23456	0.001	0.000

Concentration = 110 ng/mL

Total Nanomoles = 0.389

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

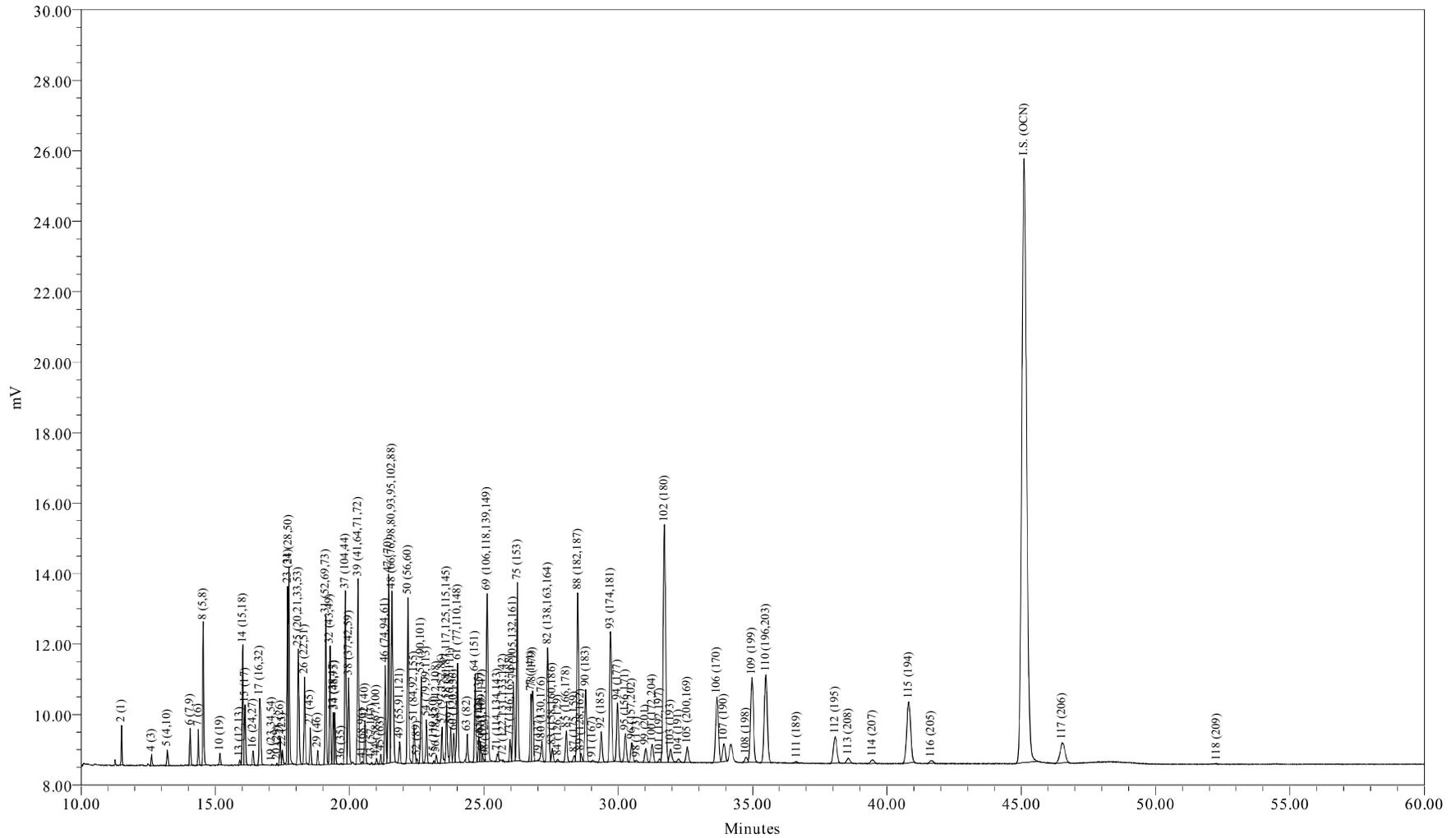
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Sample Name: CCCS0827A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 8/28/2009 6:48:08 AM EDT

Sample Amount (L): 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-10

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 06:48:08  
 Lab Sample ID: CCCS0827A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-154-10

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 110 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.60	17.20
Di	12.51	15.62
Tri	17.93	19.47
Tetra	20.98	20.17
Penta	8.52	7.27
Hexa	7.73	6.05
Hepta	13.09	9.28
Octa	7.01	4.57
Nona	0.63	0.38
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.2327	37.9	30.9
A1242	23+24/31+28	5.4681	28.7	23.4
A1254SED	61/100	1.4661	7.69	
A1254BIO	69+75+82/149+153+138	5.8018		24.8
A1260	102/180	3.7923	19.9	16.2
A1268	115/194	1.1166	5.85	4.77

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 2.09

Total Cl / biphenyl Residue = 3.65

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 06:48:08  
 Lab Sample ID: CCCS0827A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-154-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.51	188.7	2007	7.23	38.3			
3	12.52	188.7		-	-			
4	12.62	188.7	794	5.53	29.3			
5	13.21	223.1	1385	2.17	9.73			
6	14.06	223.1	3135	0.685	3.07			
7	14.36	223.1	2466	1.12	5.02			
8	14.55	223.1	10678	8.99	40.3			
9	15.10	223.1		-	-			
10	15.17	257.5	935	0.270	1.05			
11	15.64	257.5		-	-			
12	15.71	223.1		-	-			
13	15.91	223.1	513	0.161	0.721			
14	16.02	249.0	9721	2.62	10.5			
15	16.11	257.5	5265	2.81	10.9			
16	16.40	257.5	1125	0.198	0.770			
17	16.65	257.5	8857	2.76	10.7			
19	17.10	267.9	82	0.0214	0.0799			
20	17.30	257.5	173	0.0285	0.111			
21	17.41	257.5	2219	0.533	2.07			
22	17.50	257.5	1273	0.231	0.896			
23	17.69	257.5	12968	2.55	9.91			
24	17.74	257.5	16920	2.92	11.3			
25	18.09	259.5	11818	2.67	10.3			
26	18.32	258.7	7637	1.82	7.02			
27	18.54	292.0	3049	0.654	2.24			
28	18.69	257.5		-	-			
29	18.81	292.0	1177	0.296	1.01			
30	18.95	257.5		-	-			
31	19.11	292.0	12474	3.60	12.3			
32	19.27	292.0	10202	1.47	5.03			
33	19.39	292.0	4325	0.433	1.48			
34	19.45	292.0	4472	0.645	2.21			
35	19.59	292.0		-	-			
36	19.68	257.5	75	0.0252	0.0979			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.84	292.0	15092	2.76	9.44			
38	19.96	272.4	8977	2.03	7.44			
39	20.31	292.0	17164	2.45	8.39			
41	20.47	326.4	207	0.0507	0.155			
42	20.57	292.0	3901	0.683	2.34			
43	20.81	298.9	166	0.0291	0.0972			
44	21.00	298.9	577	0.0716	0.240			
45	21.16	292.0	900	0.112	0.384			
46	21.32	292.0	9105	0.877	3.00			
47	21.45	292.0	17281	2.10	7.20			
48	21.57	293.5	22740	4.13	14.1			
49	21.86	324.7	2038	0.333	1.02			
50	22.17	292.0	15760	1.88	6.45			
51	22.40	326.4	4630	1.48	4.55			
52	22.51	326.4	405	0.0688	0.211			
53	22.66	326.4	8361	1.21	3.71			
54	22.85	326.4	4010	0.377	1.15			
55	23.13	326.4	217	0.0145	0.0445			
56	23.23	326.4	728	0.130	0.399			
57	23.44	326.4	3629	0.407	1.25			
58	23.61	326.4	6203	0.807	2.47			
59	23.76	326.4	3449	0.363	1.11			
60	23.88	360.9	2613	0.365	1.01			
61	24.01	326.4	10234	1.47	4.49			
62	24.30	360.9	-	-	-			
63	24.38	326.4	2820	0.342	1.05			
64	24.67	360.9	8404	1.11	3.07			
65	24.81	350.5	2340	0.192	0.547			
66	24.87	360.9	1958	0.398	1.10			
67	24.94	336.8	566	0.0786	0.233			
68	25.05	326.4	150	0.0192	0.0587			
69	25.12	337.5	20492	2.43	7.21			
70	25.24	360.9	-	-	-			
71	25.50	347.8	1019	0.119	0.343			
72	25.71	336.8	175	0.0162	0.0480			
73	25.98	360.9	2174	0.239	0.662			
74	26.10	347.8	8838	0.778	2.24			
75	26.24	360.9	18405	1.79	4.97			
76	26.36	360.9	-	-	-			
77	26.75	360.9	6363	0.945	2.62			
78	26.81	395.3	7904	0.991	2.51			
79	27.04	360.9	101	0.0175	0.0484			
80	27.16	360.9	2594	0.148	0.411			
82	27.38	360.9	15681	1.58	4.37			
83	27.55	360.9	1641	0.148	0.409			
84	27.75	360.9	236	0.00641	0.0178			
85	28.07	395.3	3949	0.778	1.97			
87	28.36	395.3	721	0.128	0.324			
88	28.49	395.3	22192	2.31	5.85			
89	28.60	360.9	894	0.0669	0.185			
90	28.79	395.3	9750	1.06	2.67			
91	29.04	360.9	222	0.0259	0.0719			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.36	394.3	4230	0.316	0.800			
93	29.71	394.3	18782	2.00	5.08			
94	29.97	394.3	8702	1.04	2.65			
95	30.26	382.2	4220	0.465	1.22			
96	30.51	429.8	2939	0.0467	0.109			
98	30.67	395.3	242	0.0234	0.0592			
99	31.02	429.8	2225	0.265	0.616			
100	31.27	395.3	2909	0.343	0.867			
101	31.53	429.8	442	0.0487	0.113			
102	31.72	395.3	41756	3.79	9.59			
103	31.95	395.3	2331	0.256	0.647			
104	32.24	395.3	536	0.0612	0.155			
105	32.57	429.8	2739	0.281	0.655			
106	33.67	395.3	13142	0.754	1.91			
107	33.93	395.3	3419	0.237	0.599			
108	34.75	429.8	902	0.0670	0.156			
109	34.97	429.8	17825	2.73	6.35			
110	35.49	429.8	19965	2.76	6.43			
111	36.64	395.3	295	0.0206	0.0520			
112	38.08	429.8	6569	0.337	0.783			
113	38.56	464.2	1159	0.158	0.341			
114	39.47	464.2	992	0.0714	0.154			
115	40.81	429.8	18009	1.12	2.60			
116	41.65	429.8	721	0.0616	0.143			
117	46.52	464.2	7119	0.462	0.995			
118	52.28	498.6	22	0.00197	0.00394			

Total Concentration = 110 ng/mL

Total Nanomoles = 0.393

Average Molecular Weight = 279.9

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 215119.4

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 06:48:08  
 Lab Sample ID: CCCS0827A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-154-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2552	2	6.570	9.746
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003	0.2798	4	5.026	7.456
5	13.21	2:2	004 010	0.2928	2-2; 26	1.972	2.475
6	14.06	2:1	007 009	0.3117	24; 25	0.622	0.780
7	14.36	2:1	006	0.3183	2-3	1.018	1.277
8	14.55	2:1	005 008	0.3225	23; 2-4	8.164	10.244
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3363	26-2	0.245	0.266
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013	0.3527	34; 3-4	0.146	0.183
14	16.02	2:0 3:2	015 018	0.3551	4-4; 25-2	2.381	2.676
15	16.11	3:2	017	0.3571	24-2	2.551	2.773
16	16.40	3:2	024 027	0.3636	236; 26-3	0.180	0.196
17	16.65	3:2	016 032	0.3691	23-2; 26-4	2.508	2.726
19	17.10	3:1 4:4	023 034 054	0.3791	235; 35-2; 26-26	0.019	0.020
20	17.30	3:1	029	0.3835	245	0.026	0.028
21	17.41	3:1	026	0.3859	25-3	0.485	0.527
22	17.50	3:1	025	0.3879	24-3	0.210	0.228
23	17.69	3:1	031	0.3922	25-4	2.319	2.521
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	2.648	2.879
25	18.09	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	2.425	2.616
26	18.32	3:1 4:3	022 051	0.4061	23-4; 24-26	1.649	1.784
27	18.54	4:3	045	0.4110	236-2	0.594	0.569
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4170	23-26	0.269	0.258
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	3.270	3.135
32	19.27	4:2	043 049	0.4272	235-2; 24-25	1.334	1.279
33	19.39	4:2	038 047	0.4298	345; 24-24	0.393	0.377
34	19.45	4:2	048 075	0.4312	245-2; 246-4	0.586	0.562
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035	0.4363	34-3	0.023	0.025
37	19.84	5:4 4:2	104 044	0.4398	246-26; 23-25	2.504	2.400
38	19.96	3:0 4:2	037 042 059	0.4425	34-4; 23-24; 236-3	1.840	1.891
39	20.31	4:2	041 064 071 072	0.4502	234-2; 236-4; 26-34; 25-35	2.226	2.134

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096	0.4538	24-35; 236-26	0.046	0.039
42	20.57	4:2	040	0.4560	23-23	0.621	0.595
43	20.81	4:1 5:3	057 103	0.4613	235-3; 246-25	0.026	0.025
44	21.00	4:1 5:3	058 067 100	0.4655	23-35; 245-3; 246-24	0.065	0.061
45	21.16	4:1	063	0.4691	235-4	0.102	0.098
46	21.32	4:1 5:3	074 094 061	0.4726	245-4; 235-26; 2345	0.797	0.764
47	21.45	4:1	070	0.4755	25-34	1.911	1.832
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088	0.4782	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.755	3.581
49	21.86	4:1 5:3	055 091 121	0.4846	234-3; 236-24; 246-35	0.302	0.261
50	22.17	4:1	056 060	0.4915	23-34; 234-4	1.711	1.641
51	22.40	5:3 6:4	084 092 155	0.4966	236-23; 235-25; 246-246	1.349	1.157
52	22.51	5:3	089	0.4990	234-26	0.062	0.054
53	22.66	5:2	090 101	0.5023	235-24; 245-25	1.099	0.943
54	22.85	5:2	079 099 113	0.5065	34-35; 245-24; 236-35	0.342	0.294
55	23.13	5:2 6:4	119 150	0.5127	246-34; 236-246	0.013	0.011
56	23.23	5:2	078 083 112 108	0.5150	345-3; 235-23; 2356-3; 2346-3	0.118	0.102
57	23.44	5:2 6:4	097 152 086	0.5196	245-23; 2356-26; 2345-2	0.370	0.317
58	23.61	5:2	081 087 117 125 115 145	0.5234	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.733	0.629
59	23.76	5:2	116 085 111	0.5267	23456; 234-24; 235-35	0.330	0.283
60	23.88	6:4	120 136	0.5294	245-35; 236-236	0.332	0.257
61	24.01	5:2	077 110 148	0.5323	34-34; 236-34; 235-246	1.332	1.142
62	24.30	6:3	154		245-246	-	-
63	24.38	5:2	082	0.5405	234-23	0.311	0.266
64	24.67	6:3	151	0.5469	2356-25	1.008	0.782
65	24.81	5:1 6:3	124 135	0.5500	345-25; 235-236	0.174	0.139
66	24.87	6:3	144	0.5513	2346-25	0.361	0.280
67	24.94	5:1 6:3	107 109 147	0.5529	234-35; 235-34; 2356-24	0.071	0.059
68	25.05	5:1	123	0.5553	345-24	0.017	0.015
69	25.12	5:1 6:3	106 118 139 149	0.5569	2345-3; 245-34; 2346-24; 236-245	2.210	1.833
70	25.24	6:3	140		234-246	-	-
71	25.50	5:1 6:3	114 134 143	0.5653	2345-4; 2356-23; 2345-26	0.108	0.087
72	25.71	5:1 6:3	122 131 133 142	0.5699	345-23; 2346-23; 235-235; 23456-2	0.015	0.012
73	25.98	6:2	146 165 188	0.5759	235-245; 2356-35; 2356-246	0.217	0.168
74	26.10	5:1 6:3	105 132 161	0.5786	234-34; 234-236; 2346-35	0.707	0.569
75	26.24	6:2	153	0.5817	245-245	1.628	1.263
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.75	6:2	141	0.5930	2345-25	0.859	0.666
78	26.81	7:4	179	0.5943	2356-236	0.900	0.638
79	27.04	6:2	137	0.5994	2345-24	0.016	0.012
80	27.16	6:2 7:4	130 176	0.6021	234-235; 2346-236	0.135	0.104
82	27.38	6:2	138 163 164	0.6070	234-245; 2356-34; 236-345	1.432	1.111
83	27.55	6:2	158 160 186	0.6107	2346-34; 23456-3; 23456-26	0.134	0.104
84	27.75	6:2	126 129	0.6152	345-34; 2345-23	0.006	0.005
85	28.07	7:3	166 178	0.6223	23456-4; 2356-235	0.706	0.500
87	28.36	7:3	175 159	0.6287	2346-235; 2345-35	0.116	0.082
88	28.49	7:3	182 187	0.6316	2345-246; 2356-245	2.102	1.489
89	28.60	6:2	128 162	0.6340	234-234; 235-345	0.061	0.047
90	28.79	7:3	183	0.6382	2346-245	0.959	0.679
91	29.04	6:1	167	0.6438	245-345	0.024	0.018
92	29.36	7:3	185	0.6509	23456-25	0.287	0.203
93	29.71	7:3	174 181	0.6586	2345-236; 23456-24	1.821	1.293
94	29.97	7:3	177	0.6644	2356-234	0.948	0.673
95	30.26	6:1 7:3	156 171	0.6708	2345-34; 2346-234	0.423	0.310
96	30.51	8:4	157 202	0.6763	234-345; 2356-2356	0.042	0.028
98	30.67	7:3	173	0.6799	23456-23	0.021	0.015
99	31.02	8:4	201	0.6877	2346-2356	0.240	0.157
100	31.27	7:2	172 204	0.6932	2345-235; 23456-246	0.311	0.221
101	31.53	8:4	192 197	0.6990	23456-35; 2346-2346	0.044	0.029
102	31.72	7:2	180	0.7032	2345-245	3.445	2.439
103	31.95	7:2	193	0.7083	2356-345	0.232	0.165
104	32.24	7:2	191	0.7147	2346-345	0.056	0.039
105	32.57	8:4	200 169	0.7220	23456-236; 345-345	0.256	0.167
106	33.67	7:2	170	0.7464	2345-234	0.685	0.485

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.93	7:2	<b>190</b>	0.7522	23456-34	0.215	0.152
108	34.75	8:3	<b>198</b>	0.7703	23456-235	0.061	0.040
109	34.97	8:3	<b>199</b>	0.7752	2345-2356	2.480	1.615
110	35.49	8:3	<b>196 203</b>	0.7867	2345-2346; 23456-245	2.511	1.636
111	36.64	7:1	<b>189</b>	0.8122	2345-345	0.019	0.013
112	38.08	8:3	<b>195</b>	0.8442	23456-234	0.306	0.199
113	38.56	9:4	<b>208</b>	0.8548	23456-2356	0.144	0.087
114	39.47	9:4	<i>207</i>	0.8750	23456-2346	0.065	0.039
115	40.81	8:2	<b>194</b>	0.9047	2345-2345	1.014	0.661
116	41.65	8:2	<b>205</b>	0.9233	23456-345	0.056	0.036
117	46.52	9:3	<b>206</b>	1.031	23456-2345	0.419	0.253
118	52.28	10:4	<i>209</i>	1.159	23456-23456	0.002	0.001

Concentration = 110 ng/mL

Total Nanomoles = 0.393

Average Molecular Weight = 279.9

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

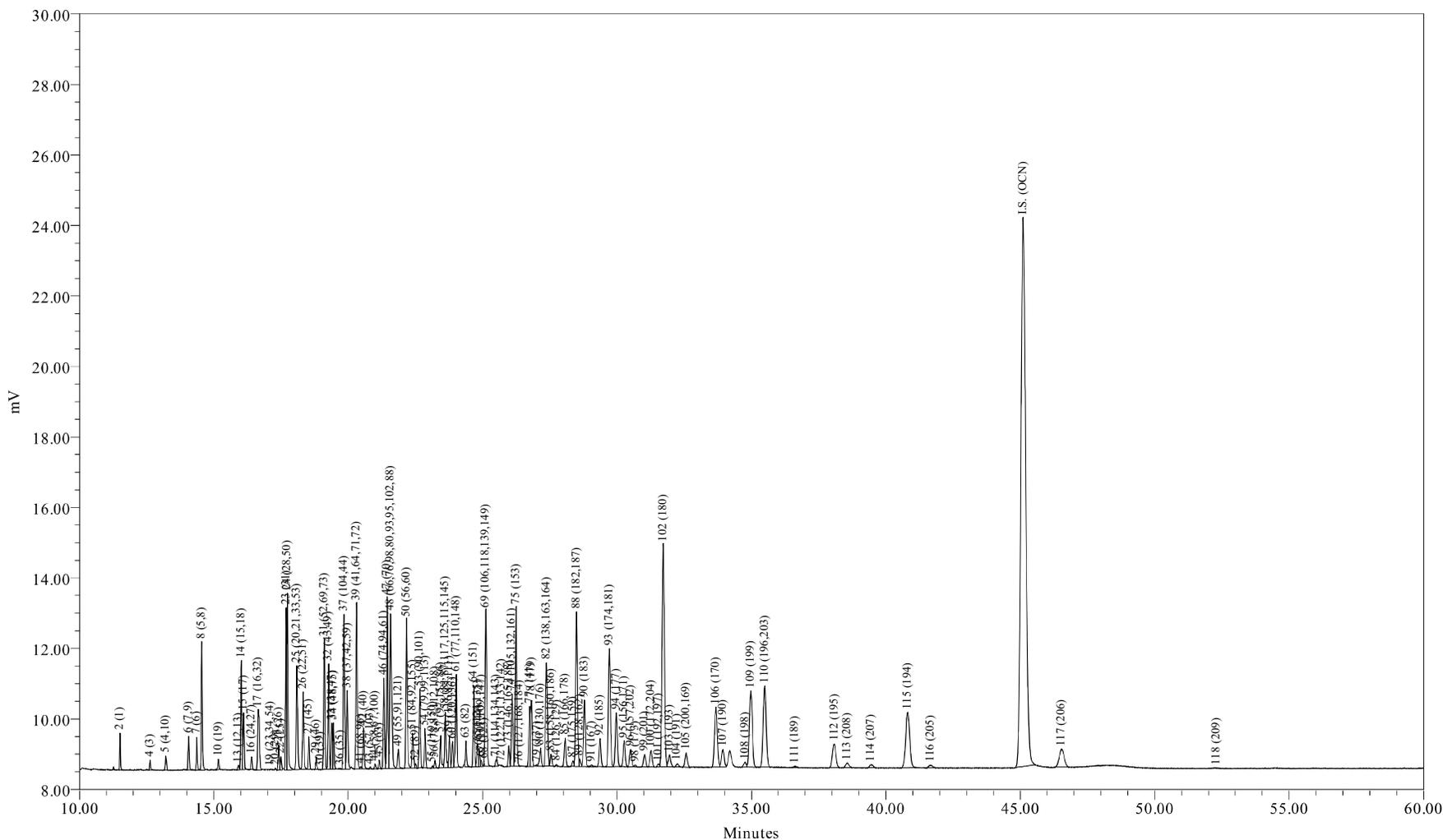
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Sample Name: CCCS0827B  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 8/28/2009 10:04:21 AM EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-154-13

Sample Name: CCCS0827B

1 of 1

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 10:04:21  
 Lab Sample ID: CCCS0827B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-154-13

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 111 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.94	16.28
Di	12.57	15.75
Tri	18.26	19.88
Tetra	21.17	20.42
Penta	8.52	7.28
Hexa	7.70	6.04
Hepta	13.11	9.32
Octa	7.12	4.65
Nona	0.62	0.38
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.5157	38.4	31.5
A1242	23+24/31+28	5.6178	28.7	23.5
A1254SED	61/100	1.4786	7.56	
A1254BIO	69+75+82/149+153+138	5.8187		24.4
A1260	102/180	3.7994	19.4	15.9
A1268	115/194	1.1379	5.82	4.76

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.10

Total Cl / biphenyl Residue = 3.68

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 10:04:21  
 Lab Sample ID: CCCS0827B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-154-13

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.51	188.7	1888	7.52	39.8			
3	12.52	188.7		-	-			
4	12.62	188.7	597	4.59	24.3			
5	13.21	223.1	1187	2.06	9.22			
6	14.06	223.1	2887	0.697	3.12			
7	14.36	223.1	2383	1.20	5.37			
8	14.55	223.1	9853	9.17	41.1			
9	15.10	223.1		-	-			
10	15.17	257.5	904	0.289	1.12			
11	15.64	257.5		-	-			
12	15.71	223.1		-	-			
13	15.92	223.1	454	0.157	0.705			
14	16.02	249.0	8752	2.61	10.5			
15	16.11	257.5	4947	2.92	11.3			
16	16.40	257.5	978	0.190	0.739			
17	16.65	257.5	8063	2.78	10.8			
19	17.11	267.9	39	0.0112	0.0417			
20	17.29	257.5	106	0.0190	0.0740			
21	17.41	257.5	2069	0.550	2.13			
22	17.50	257.5	1181	0.237	0.918			
23	17.69	257.5	12229	2.66	10.3			
24	17.74	257.5	15528	2.96	11.5			
25	18.09	259.5	10944	2.73	10.5			
26	18.32	258.7	7312	1.92	7.42			
27	18.54	292.0	2823	0.669	2.29			
28	18.69	257.5		-	-			
29	18.81	292.0	1081	0.300	1.03			
30	18.95	257.5	10	0.00385	0.0149			
31	19.10	292.0	11411	3.64	12.5			
32	19.27	292.0	9372	1.49	5.11			
33	19.39	292.0	4059	0.450	1.54			
34	19.45	292.0	4065	0.648	2.22			
35	19.59	292.0		-	-			
36	19.70	257.5	109	0.0405	0.157			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.84	292.0	13778	2.78	9.53			
38	19.96	272.4	8236	2.05	7.54			
39	20.31	292.0	15672	2.47	8.47			
41	20.46	326.4	209	0.0564	0.173			
42	20.57	292.0	3654	0.707	2.42			
43	20.82	298.9	149	0.0288	0.0963			
44	21.00	298.9	497	0.0681	0.228			
45	21.16	292.0	760	0.104	0.357			
46	21.32	292.0	8256	0.879	3.01			
47	21.45	292.0	15820	2.13	7.29			
48	21.57	293.5	21341	4.29	14.6			
49	21.86	324.7	2014	0.363	1.12			
50	22.17	292.0	14221	1.88	6.43			
51	22.40	326.4	4186	1.48	4.54			
52	22.50	326.4	345	0.0646	0.198			
53	22.66	326.4	7575	1.21	3.71			
54	22.85	326.4	3637	0.378	1.16			
55	23.14	326.4	191	0.0141	0.0433			
56	23.23	326.4	670	0.133	0.406			
57	23.44	326.4	3244	0.402	1.23			
58	23.61	326.4	5650	0.813	2.49			
59	23.76	326.4	3091	0.360	1.10			
60	23.88	360.9	2396	0.370	1.03			
61	24.01	326.4	9341	1.48	4.53			
62	24.30	360.9	-	-	-			
63	24.38	326.4	2503	0.335	1.03			
64	24.67	360.9	7624	1.11	3.08			
65	24.81	350.5	2220	0.201	0.574			
66	24.87	360.9	1647	0.369	1.02			
67	24.94	336.8	517	0.0793	0.235			
68	25.05	326.4	135	0.0190	0.0583			
69	25.12	337.5	18561	2.43	7.21			
70	25.24	360.9	-	-	-			
71	25.50	347.8	891	0.115	0.331			
72	25.69	336.8	123	0.0126	0.0373			
73	25.97	360.9	1973	0.240	0.664			
74	26.10	347.8	8089	0.787	2.26			
75	26.24	360.9	16954	1.83	5.06			
76	26.37	360.9	13	0.00199	0.00552			
77	26.75	360.9	5736	0.942	2.61			
78	26.81	395.3	7409	1.03	2.60			
79	27.02	360.9	190	0.0369	0.102			
80	27.16	360.9	2399	0.151	0.419			
82	27.38	360.9	14039	1.56	4.32			
83	27.54	360.9	1351	0.134	0.371			
84	27.75	360.9	195	0.00585	0.0162			
85	28.07	395.3	3500	0.762	1.93			
87	28.36	395.3	622	0.122	0.308			
88	28.50	395.3	20202	2.33	5.89			
89	28.61	360.9	811	0.0670	0.186			
90	28.79	395.3	8946	1.07	2.71			
91	29.06	360.9	211	0.0272	0.0754			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.37	394.3	3735	0.308	0.780			
93	29.72	394.3	17152	2.02	5.13			
94	29.97	394.3	8027	1.06	2.70			
95	30.27	382.2	3798	0.463	1.21			
96	30.51	429.8	2618	0.0460	0.107			
98	30.67	395.3	220	0.0235	0.0594			
99	31.03	429.8	1925	0.253	0.589			
100	31.27	395.3	2543	0.331	0.838			
101	31.54	429.8	421	0.0513	0.119			
102	31.72	395.3	37861	3.80	9.61			
103	31.96	395.3	2132	0.258	0.654			
104	32.23	395.3	464	0.0586	0.148			
105	32.57	429.8	2568	0.292	0.678			
106	33.68	395.3	12128	0.769	1.95			
107	33.94	395.3	3500	0.267	0.676			
108	34.77	429.8	917	0.0753	0.175			
109	34.97	429.8	16640	2.82	6.55			
110	35.50	429.8	18232	2.79	6.49			
111	36.61	395.3	224	0.0173	0.0437			
112	38.09	429.8	6047	0.342	0.796			
113	38.56	464.2	1098	0.166	0.357			
114	39.45	464.2	740	0.0588	0.127			
115	40.81	429.8	16608	1.14	2.65			
116	41.67	429.8	801	0.0755	0.176			
117	46.53	464.2	6447	0.462	0.995			
118	52.29	498.6	1	0.0000791	0.000159			

Total Concentration = 111 ng/mL

Total Nanomoles = 0.394

Average Molecular Weight = 280.8

Number of Calibrated Peaks Found = 104

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 194700.7

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/28/2009 10:04:21  
 Lab Sample ID: CCCS0827B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-154-13

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2552	2	6.788	10.101
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003	0.2798	4	4.149	6.175
5	13.21	2:2	004 010	0.2928	2-2; 26	1.857	2.338
6	14.06	2:1	007 009	0.3117	24; 25	0.629	0.792
7	14.36	2:1	006	0.3183	2-3	1.082	1.362
8	14.55	2:1	005 008	0.3225	23; 2-4	8.279	10.420
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3363	26-2	0.261	0.284
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.92	2:0	012 013	0.3529	34; 3-4	0.142	0.179
14	16.02	2:0 3:2	015 018	0.3551	4-4; 25-2	2.354	2.655
15	16.11	3:2	017	0.3571	24-2	2.634	2.873
16	16.40	3:2	024 027	0.3636	236; 26-3	0.172	0.188
17	16.65	3:2	016 032	0.3691	23-2; 26-4	2.508	2.736
19	17.11	3:1 4:4	023 034 054	0.3793	235; 35-2; 26-26	0.010	0.011
20	17.29	3:1	029	0.3833	245	0.017	0.019
21	17.41	3:1	026	0.3859	25-3	0.496	0.541
22	17.50	3:1	025	0.3879	24-3	0.214	0.233
23	17.69	3:1	031	0.3922	25-4	2.403	2.621
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	2.671	2.912
25	18.09	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	2.468	2.671
26	18.32	3:1 4:3	022 051	0.4061	23-4; 24-26	1.735	1.883
27	18.54	4:3	045	0.4110	236-2	0.604	0.581
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4170	23-26	0.271	0.261
30	18.95	3:0	039	0.4201	35-4	0.003	0.004
31	19.10	4:2	052 069 073	0.4234	25-25; 246-3; 26-35	3.287	3.161
32	19.27	4:2	043 049	0.4272	235-2; 24-25	1.346	1.295
33	19.39	4:2	038 047	0.4298	345; 24-24	0.406	0.391
34	19.45	4:2	048 075	0.4312	245-2; 246-4	0.585	0.563
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.70	3:0	035	0.4367	34-3	0.037	0.040
37	19.84	5:4 4:2	104 044	0.4398	246-26; 23-25	2.512	2.416
38	19.96	3:0 4:2	037 042 059	0.4425	34-4; 23-24; 236-3	1.855	1.912
39	20.31	4:2	041 064 071 072	0.4502	234-2; 236-4; 26-34; 25-35	2.233	2.147

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.46	5:4	068 096	0.4536	24-35; 236-26	0.051	0.044
42	20.57	4:2	040	0.4560	23-23	0.639	0.614
43	20.82	4:1 5:3	057 103	0.4615	235-3; 246-25	0.026	0.024
44	21.00	4:1 5:3	058 067 100	0.4655	23-35; 245-3; 246-24	0.062	0.058
45	21.16	4:1	063	0.4691	235-4	0.094	0.091
46	21.32	4:1 5:3	074 094 061	0.4726	245-4; 235-26; 2345	0.794	0.763
47	21.45	4:1	070	0.4755	25-34	1.922	1.848
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088	0.4782	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.874	3.706
49	21.86	4:1 5:3	055 091 121	0.4846	234-3; 236-24; 246-35	0.328	0.284
50	22.17	4:1	056 060	0.4915	23-34; 234-4	1.696	1.631
51	22.40	5:3 6:4	084 092 155	0.4966	236-23; 235-25; 246-246	1.340	1.153
52	22.50	5:3	089	0.4988	234-26	0.058	0.050
53	22.66	5:2	090 101	0.5023	235-24; 245-25	1.094	0.942
54	22.85	5:2	079 099 113	0.5065	34-35; 245-24; 236-35	0.341	0.293
55	23.14	5:2 6:4	119 150	0.5130	246-34; 236-246	0.013	0.011
56	23.23	5:2	078 083 112 108	0.5150	345-3; 235-23; 2356-3; 2346-3	0.120	0.103
57	23.44	5:2 6:4	097 152 086	0.5196	245-23; 2356-26; 2345-2	0.363	0.313
58	23.61	5:2	081 087 117 125 115 145	0.5234	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.734	0.631
59	23.76	5:2	116 085 111	0.5267	23456; 234-24; 235-35	0.325	0.280
60	23.88	6:4	120 136	0.5294	245-35; 236-236	0.334	0.260
61	24.01	5:2	077 110 148	0.5323	34-34; 236-34; 235-246	1.335	1.149
62	24.30	6:3	154		245-246	-	-
63	24.38	5:2	082	0.5405	234-23	0.303	0.260
64	24.67	6:3	151	0.5469	2356-25	1.004	0.781
65	24.81	5:1 6:3	124 135	0.5500	345-25; 235-236	0.182	0.146
66	24.87	6:3	144	0.5513	2346-25	0.334	0.259
67	24.94	5:1 6:3	107 109 147	0.5529	234-35; 235-34; 2356-24	0.072	0.060
68	25.05	5:1	123	0.5553	345-24	0.017	0.015
69	25.12	5:1 6:3	106 118 139 149	0.5569	2345-3; 245-34; 2346-24; 236-245	2.199	1.830
70	25.24	6:3	140		234-246	-	-
71	25.50	5:1 6:3	114 134 143	0.5653	2345-4; 2356-23; 2345-26	0.104	0.084
72	25.69	5:1 6:3	122 131 133 142	0.5695	345-23; 2346-23; 235-235; 23456-2	0.011	0.009
73	25.97	6:2	146 165 188	0.5757	235-245; 2356-35; 2356-246	0.216	0.168
74	26.10	5:1 6:3	105 132 161	0.5786	234-34; 234-236; 2346-35	0.711	0.574
75	26.24	6:2	153	0.5817	245-245	1.648	1.283
76	26.37	6:2	127 168 184	0.5846	345-35; 246-345; 2346-246	0.002	0.001
77	26.75	6:2	141	0.5930	2345-25	0.850	0.662
78	26.81	7:4	179	0.5943	2356-236	0.927	0.659
79	27.02	6:2	137	0.5990	2345-24	0.033	0.026
80	27.16	6:2 7:4	130 176	0.6021	234-235; 2346-236	0.137	0.106
82	27.38	6:2	138 163 164	0.6070	234-245; 2356-34; 236-345	1.408	1.095
83	27.54	6:2	158 160 186	0.6105	2346-34; 23456-3; 23456-26	0.121	0.094
84	27.75	6:2	126 129	0.6152	345-34; 2345-23	0.005	0.004
85	28.07	7:3	166 178	0.6223	23456-4; 2356-235	0.688	0.489
87	28.36	7:3	175 159	0.6287	2346-235; 2345-35	0.110	0.078
88	28.50	7:3	182 187	0.6318	2345-246; 2356-245	2.103	1.494
89	28.61	6:2	128 162	0.6342	234-234; 235-345	0.061	0.047
90	28.79	7:3	183	0.6382	2346-245	0.967	0.687
91	29.06	6:1	167	0.6442	245-345	0.025	0.019
92	29.37	7:3	185	0.6511	23456-25	0.278	0.198
93	29.72	7:3	174 181	0.6588	2345-236; 23456-24	1.827	1.301
94	29.97	7:3	177	0.6644	2356-234	0.960	0.684
95	30.27	6:1 7:3	156 171	0.6710	2345-34; 2346-234	0.418	0.307
96	30.51	8:4	157 202	0.6763	234-345; 2356-2356	0.042	0.027
98	30.67	7:3	173	0.6799	23456-23	0.021	0.015
99	31.03	8:4	201	0.6879	2346-2356	0.229	0.149
100	31.27	7:2	172 204	0.6932	2345-235; 23456-246	0.299	0.212
101	31.54	8:4	192 197	0.6992	23456-35; 2346-2346	0.046	0.030
102	31.72	7:2	180	0.7032	2345-245	3.432	2.438
103	31.96	7:2	193	0.7085	2356-345	0.233	0.166
104	32.23	7:2	191	0.7145	2346-345	0.053	0.038
105	32.57	8:4	200 169	0.7220	23456-236; 345-345	0.263	0.172
106	33.68	7:2	170	0.7466	2345-234	0.695	0.494

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.94	7:2	<b>190</b>	0.7524	23456-34	0.241	0.171
108	34.77	8:3	<b>198</b>	0.7708	23456-235	0.068	0.044
109	34.97	8:3	<b>199</b>	0.7752	2345-2356	2.544	1.662
110	35.50	8:3	<b>196 203</b>	0.7870	2345-2346; 23456-245	2.520	1.646
111	36.61	7:1	<b>189</b>	0.8116	2345-345	0.016	0.011
112	38.09	8:3	<b>195</b>	0.8444	23456-234	0.309	0.202
113	38.56	9:4	<b>208</b>	0.8548	23456-2356	0.150	0.091
114	39.45	9:4	<b>207</b>	0.8745	23456-2346	0.053	0.032
115	40.81	8:2	<b>194</b>	0.9047	2345-2345	1.028	0.671
116	41.67	8:2	<b>205</b>	0.9237	23456-345	0.068	0.045
117	46.53	9:3	<b>206</b>	1.031	23456-2345	0.417	0.252
118	52.29	10:4	<b>209</b>	1.159	23456-23456	0.000	0.000

Concentration = 111 ng/mL

Total Nanomoles = 0.394

Average Molecular Weight = 280.8

Number of Calibrated Peaks Found = 104

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Sample Name: CCCS0823E Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 08/24/2009 09:40:09 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 08/24/2009 11:55:18  
Sample Set Name: GC24\_082309d User Name: Keith Friedman  
Processing Method: CSGB\_LL1X\_081109 Current Time: 15:17:43  
Run Time: 60 Minutes Current Date: 09/11/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-150-25

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.51	2027	7.393	7.393
2	4 (3)	12.62	617	4.350	4.350
3	5 (4,10)	13.21	1335	2.119	2.119
4	6 (7,9)	14.06	3117	0.689	0.689
5	7 (6)	14.36	2521	1.161	1.161
6	8 (5,8)	14.55	10595	9.028	9.028
7	10 (19)	15.17	844	0.246	0.246
8	13 (12,13)	15.91	517	0.164	0.164
9	14 (15,18)	16.02	9694	2.646	2.646
10	15 (17)	16.11	5048	2.724	2.724
11	16 (24,27)	16.40	1128	0.201	0.201
12	17 (16,32)	16.65	8688	2.741	2.741
13	19 (23,34,54)	17.12	105	0.028	0.028
14	20 (29)	17.30	196	0.033	0.033
15	21 (26)	17.42	2220	0.540	0.540
16	22 (25)	17.50	1248	0.229	0.229
17	23 (31)	17.69	13189	2.629	2.629
18	24 (28,50)	17.74	16577	2.891	2.891
19	25 (20,21,33,53)	18.09	11743	2.686	2.686
20	26 (22,51)	18.32	7719	1.858	1.858
21	27 (45)	18.54	2955	0.641	0.641
22	29 (46)	18.81	1160	0.295	0.295
23	31 (52,69,73)	19.11	12393	3.621	3.621
24	32 (43,49)	19.27	10193	1.485	1.485
25	33 (38,47)	19.39	4340	0.440	0.440
26	34 (48,75)	19.45	4346	0.635	0.635
27	36 (35)	19.68	80	0.027	0.027
28	37 (104,44)	19.84	14986	2.771	2.771
29	38 (37,42,59)	19.97	8867	2.026	2.026
30	39 (41,64,71,72)	20.31	17101	2.471	2.471
31	41 (68,96)	20.48	248	0.061	0.061
32	42 (40)	20.57	3986	0.707	0.707
33	43 (57,103)	20.82	187	0.033	0.033

34	44 (58,67,100)	21.00	600	0.075	0.075
35	45 (63)	21.16	893	0.113	0.113
36	46 (74,94,61)	21.32	9084	0.886	0.886
37	47 (70)	21.45	17314	2.134	2.134
38	48 (66,76,98,80,93,95,	21.57	23227	4.276	4.276
39	49 (55,91,121)	21.86	2217	0.366	0.366
40	50 (56,60)	22.17	15723	1.903	1.903
41	51 (84,92,155)	22.40	4580	1.487	1.487
42	52 (89)	22.51	388	0.067	0.067
43	53 (90,101)	22.66	8269	1.212	1.212
44	54 (79,99,113)	22.86	4072	0.387	0.387
45	55 (119,150)	23.14	177	0.012	0.012
46	56 (78,83,112,108)	23.22	727	0.132	0.132
47	57 (97,152,86)	23.44	3586	0.408	0.408
48	58 (81,87,117,125,115	23.61	6146	0.810	0.810
49	59 (116,85,111)	23.76	3446	0.368	0.368
50	60 (120,136)	23.88	2643	0.374	0.374
51	61 (77,110,148)	24.01	10205	1.480	1.480
52	63 (82)	24.38	2901	0.356	0.356
53	64 (151)	24.68	8311	1.111	1.111
54	65 (124,135)	24.81	2345	0.195	0.195
55	66 (144)	24.87	1919	0.395	0.395
56	67 (107,109,147)	24.94	577	0.081	0.081
57	68 (123)	25.05	162	0.021	0.021
58	69 (106,118,139,149)	25.12	20306	2.441	2.441
59	71 (114,134,143)	25.51	1012	0.120	0.120
60	72 (122,131,133,142)	25.71	185	0.017	0.017
61	73 (146,165,188)	25.98	2226	0.248	0.248
62	74 (105,132,161)	26.10	8948	0.798	0.798
63	75 (153)	26.25	18455	1.820	1.820
64	77 (141)	26.75	6889	1.036	1.036
65	78 (179)	26.81	7503	0.952	0.952
66	79 (137)	27.02	234	0.042	0.042
67	80 (130,176)	27.16	2742	0.159	0.159
68	82 (138,163,164)	27.38	15621	1.590	1.590
69	83 (158,160,186)	27.55	1673	0.152	0.152
70	84 (126,129)	27.75	341	0.009	0.009
71	85 (166,178)	28.07	3888	0.775	0.775
72	87 (175,159)	28.36	798	0.144	0.144
73	88 (182,187)	28.50	22253	2.350	2.350
74	89 (128,162)	28.61	777	0.059	0.059
75	90 (183)	28.79	9801	1.075	1.075
76	91 (167)	29.05	235	0.028	0.028
77	92 (185)	29.36	4253	0.321	0.321
78	93 (174,181)	29.72	18864	2.039	2.039
79	94 (177)	29.98	8960	1.087	1.087
80	95 (156,171)	30.26	4371	0.488	0.488
81	96 (157,202)	30.51	2973	0.048	0.048
82	98 (173)	30.66	296	0.029	0.029
83	99 (201)	31.02	2180	0.263	0.263
84	100 (172,204)	31.27	2937	0.350	0.350

85	101 (192,197)	31.53	513	0.057	0.057
86	102 (180)	31.73	41501	3.816	3.816
87	103 (193)	31.95	2335	0.259	0.259
88	104 (191)	32.25	539	0.062	0.062
89	105 (200,169)	32.57	2644	0.275	0.275
90	106 (170)	33.68	13238	0.769	0.769
91	107 (190)	33.94	3992	0.279	0.279
92	108 (198)	34.77	1224	0.092	0.092
93	109 (199)	34.98	18002	2.791	2.791
94	110 (196,203)	35.50	19716	2.764	2.764
95	111 (189)	36.60	317	0.022	0.022
96	112 (195)	38.07	6885	0.357	0.357
97	113 (208)	38.58	1284	0.178	0.178
98	114 (207)	39.45	963	0.070	0.070
99	115 (194)	40.82	18166	1.140	1.140
100	116 (205)	41.67	826	0.071	0.071
101	117 (206)	46.55	7493	0.492	0.492
102	118 (209)	52.27	43	0.004	0.004
103	Sum			110.162	110.162



Sample Name: CCCS0824A Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 08/24/2009 15:07:26 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 08/24/2009 17:11:57  
Sample Set Name: GC24\_082409B User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_081109 Current Time: 15:17:43  
Run Time: 60 Minutes Current Date: 09/11/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-151-5

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.51	1954	7.419	7.419
2	4 (3)	12.62	635	4.662	4.662
3	5 (4,10)	13.21	1242	2.050	2.050
4	6 (7,9)	14.06	3070	0.707	0.707
5	7 (6)	14.37	2398	1.149	1.149
6	8 (5,8)	14.55	10219	9.063	9.063
7	10 (19)	15.17	684	0.207	0.207
8	13 (12,13)	15.91	492	0.163	0.163
9	14 (15,18)	16.02	9248	2.627	2.627
10	15 (17)	16.11	4912	2.759	2.759
11	16 (24,27)	16.41	1072	0.199	0.199
12	17 (16,32)	16.65	8370	2.749	2.749
13	19 (23,34,54)	17.11	103	0.028	0.028
14	20 (29)	17.29	129	0.022	0.022
15	21 (26)	17.41	2051	0.520	0.520
16	22 (25)	17.50	1100	0.210	0.210
17	23 (31)	17.69	12642	2.622	2.622
18	24 (28,50)	17.74	15991	2.902	2.902
19	25 (20,21,33,53)	18.09	11230	2.673	2.673
20	26 (22,51)	18.32	7354	1.842	1.842
21	27 (45)	18.54	2868	0.648	0.648
22	29 (46)	18.81	1143	0.303	0.303
23	31 (52,69,73)	19.11	11984	3.644	3.644
24	32 (43,49)	19.27	9787	1.484	1.484
25	33 (38,47)	19.39	4109	0.434	0.434
26	34 (48,75)	19.45	4273	0.649	0.649
27	36 (35)	19.68	60	0.021	0.021
28	37 (104,44)	19.84	14378	2.767	2.767
29	38 (37,42,59)	19.97	8362	1.988	1.988
30	39 (41,64,71,72)	20.31	16393	2.465	2.465
31	41 (68,96)	20.48	212	0.054	0.054
32	42 (40)	20.57	3794	0.700	0.700
33	43 (57,103)	20.82	144	0.027	0.027

34	44 (58,67,100)	21.00	575	0.075	0.075
35	45 (63)	21.16	864	0.113	0.113
36	46 (74,94,61)	21.32	8763	0.889	0.889
37	47 (70)	21.45	16682	2.140	2.140
38	48 (66,76,98,80,93,95,	21.57	22328	4.278	4.278
39	49 (55,91,121)	21.86	2137	0.367	0.367
40	50 (56,60)	22.17	15031	1.893	1.893
41	51 (84,92,155)	22.40	4381	1.480	1.480
42	52 (89)	22.51	361	0.065	0.065
43	53 (90,101)	22.66	7933	1.210	1.210
44	54 (79,99,113)	22.86	3888	0.385	0.385
45	55 (119,150)	23.13	200	0.014	0.014
46	56 (78,83,112,108)	23.23	679	0.128	0.128
47	57 (97,152,86)	23.44	3480	0.412	0.412
48	58 (81,87,117,125,115	23.61	5630	0.772	0.772
49	59 (116,85,111)	23.76	3599	0.400	0.400
50	60 (120,136)	23.88	2488	0.366	0.366
51	61 (77,110,148)	24.02	9693	1.463	1.463
52	63 (82)	24.38	2600	0.332	0.332
53	64 (151)	24.68	8038	1.118	1.118
54	65 (124,135)	24.81	2301	0.199	0.199
55	66 (144)	24.87	1752	0.375	0.375
56	67 (107,109,147)	24.94	579	0.085	0.085
57	68 (123)	25.05	132	0.018	0.018
58	69 (106,118,139,149)	25.12	19465	2.435	2.435
59	71 (114,134,143)	25.51	1039	0.128	0.128
60	72 (122,131,133,142)	25.71	183	0.018	0.018
61	73 (146,165,188)	25.98	2072	0.240	0.240
62	74 (105,132,161)	26.10	8501	0.789	0.789
63	75 (153)	26.25	17684	1.815	1.815
64	77 (141)	26.75	5997	0.939	0.939
65	78 (179)	26.81	7784	1.028	1.028
66	79 (137)	27.02	193	0.036	0.036
67	80 (130,176)	27.16	2600	0.156	0.156
68	82 (138,163,164)	27.38	15061	1.595	1.595
69	83 (158,160,186)	27.55	1564	0.148	0.148
70	84 (126,129)	27.75	282	0.008	0.008
71	85 (166,178)	28.07	3666	0.761	0.761
72	87 (175,159)	28.37	663	0.124	0.124
73	88 (182,187)	28.50	21282	2.339	2.339
74	89 (128,162)	28.61	812	0.064	0.064
75	90 (183)	28.79	9280	1.059	1.059
76	91 (167)	29.05	214	0.026	0.026
77	92 (185)	29.37	3985	0.313	0.313
78	93 (174,181)	29.72	18048	2.030	2.030
79	94 (177)	29.98	8385	1.059	1.059
80	95 (156,171)	30.27	3982	0.463	0.463
81	96 (157,202)	30.51	2754	0.046	0.046
82	98 (173)	30.68	274	0.028	0.028
83	99 (201)	31.03	2037	0.255	0.255
84	100 (172,204)	31.26	2805	0.348	0.348

85	101 (192,197)	31.54	439	0.051	0.051
86	102 (180)	31.72	39868	3.815	3.815
87	103 (193)	31.96	2092	0.242	0.242
88	104 (191)	32.26	516	0.062	0.062
89	105 (200,169)	32.58	2701	0.292	0.292
90	106 (170)	33.68	12632	0.764	0.764
91	107 (190)	33.94	3505	0.255	0.255
92	108 (198)	34.76	940	0.074	0.074
93	109 (199)	34.99	17195	2.775	2.775
94	110 (196,203)	35.50	18775	2.739	2.739
95	111 (189)	36.62	246	0.018	0.018
96	112 (195)	38.08	6419	0.346	0.346
97	113 (208)	38.57	1203	0.173	0.173
98	114 (207)	39.48	886	0.067	0.067
99	115 (194)	40.82	17554	1.147	1.147
100	116 (205)	41.65	796	0.072	0.072
101	117 (206)	46.55	6821	0.466	0.466
102	118 (209)	52.30	10	0.001	0.001
103	Sum			109.941	109.941



Sample Name: CCCS0826E Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 08/27/2009 15:51:12 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 09/01/2009 23:41:34  
Sample Set Name: GC24\_082609c User Name: Inga Hotaling  
Processing Method: CSGB\_LL1X\_081109 Current Time: 15:17:44  
Run Time: 60 Minutes Current Date: 09/11/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-153-26

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.51	2084	7.496	7.496
2	4 (3)	12.62	612	4.252	4.252
3	5 (4,10)	13.21	1290	2.018	2.018
4	6 (7,9)	14.06	3185	0.695	0.695
5	7 (6)	14.36	2629	1.194	1.194
6	8 (5,8)	14.55	10891	9.155	9.155
7	10 (19)	15.17	911	0.262	0.262
8	13 (12,13)	15.91	487	0.152	0.152
9	14 (15,18)	16.02	9701	2.611	2.611
10	15 (17)	16.11	5238	2.789	2.789
11	16 (24,27)	16.41	1059	0.186	0.186
12	17 (16,32)	16.65	8879	2.763	2.763
13	19 (23,34,54)	17.11	75	0.020	0.020
14	20 (29)	17.30	138	0.023	0.023
15	21 (26)	17.41	2183	0.524	0.524
16	22 (25)	17.50	1318	0.238	0.238
17	23 (31)	17.69	13327	2.620	2.620
18	24 (28,50)	17.74	16996	2.924	2.924
19	25 (20,21,33,53)	18.09	11811	2.664	2.664
20	26 (22,51)	18.32	7820	1.856	1.856
21	27 (45)	18.54	3002	0.643	0.643
22	29 (46)	18.81	1155	0.290	0.290
23	31 (52,69,73)	19.11	12527	3.610	3.610
24	32 (43,49)	19.27	10284	1.478	1.478
25	33 (38,47)	19.39	4345	0.435	0.435
26	34 (48,75)	19.45	4393	0.633	0.633
27	36 (35)	19.70	57	0.019	0.019
28	37 (104,44)	19.84	15140	2.761	2.761
29	38 (37,42,59)	19.97	8940	2.014	2.014
30	39 (41,64,71,72)	20.31	17192	2.450	2.450
31	41 (68,96)	20.47	219	0.053	0.053
32	42 (40)	20.57	3958	0.692	0.692
33	43 (57,103)	20.82	143	0.025	0.025

34	44 (58,67,100)	21.00	601	0.075	0.075
35	45 (63)	21.15	841	0.104	0.104
36	46 (74,94,61)	21.32	9130	0.878	0.878
37	47 (70)	21.45	17484	2.125	2.125
38	48 (66,76,98,80,93,95,	21.57	23502	4.267	4.267
39	49 (55,91,121)	21.86	2307	0.376	0.376
40	50 (56,60)	22.17	15724	1.876	1.876
41	51 (84,92,155)	22.40	4584	1.468	1.468
42	52 (89)	22.51	308	0.052	0.052
43	53 (90,101)	22.66	8292	1.198	1.198
44	54 (79,99,113)	22.86	4033	0.378	0.378
45	55 (119,150)	23.14	199	0.013	0.013
46	56 (78,83,112,108)	23.23	718	0.128	0.128
47	57 (97,152,86)	23.44	3546	0.397	0.397
48	58 (81,87,117,125,115	23.61	6236	0.810	0.810
49	59 (116,85,111)	23.76	3456	0.364	0.364
50	60 (120,136)	23.88	2648	0.370	0.370
51	61 (77,110,148)	24.02	10414	1.490	1.490
52	63 (82)	24.38	2767	0.335	0.335
53	64 (151)	24.68	8432	1.111	1.111
54	65 (124,135)	24.81	2359	0.193	0.193
55	66 (144)	24.87	2012	0.408	0.408
56	67 (107,109,147)	24.94	636	0.088	0.088
57	68 (123)	25.05	170	0.022	0.022
58	69 (106,118,139,149)	25.12	20606	2.443	2.443
59	71 (114,134,143)	25.50	1045	0.122	0.122
60	72 (122,131,133,142)	25.70	176	0.016	0.016
61	73 (146,165,188)	25.97	2210	0.242	0.242
62	74 (105,132,161)	26.10	8926	0.785	0.785
63	75 (153)	26.24	18635	1.812	1.812
64	77 (141)	26.75	6801	1.009	1.009
65	78 (179)	26.81	7630	0.955	0.955
66	79 (137)	27.06	249	0.044	0.044
67	80 (130,176)	27.15	2695	0.154	0.154
68	82 (138,163,164)	27.38	15665	1.572	1.572
69	83 (158,160,186)	27.55	1630	0.146	0.146
70	84 (126,129)	27.74	216	0.006	0.006
71	85 (166,178)	28.07	3843	0.756	0.756
72	87 (175,159)	28.36	747	0.132	0.132
73	88 (182,187)	28.50	22239	2.315	2.315
74	89 (128,162)	28.61	861	0.064	0.064
75	90 (183)	28.79	9686	1.047	1.047
76	91 (167)	29.07	179	0.021	0.021
77	92 (185)	29.36	4191	0.312	0.312
78	93 (174,181)	29.72	18896	2.014	2.014
79	94 (177)	29.97	8917	1.067	1.067
80	95 (156,171)	30.26	4360	0.480	0.480
81	96 (157,202)	30.51	3034	0.048	0.048
82	98 (173)	30.66	308	0.030	0.030
83	99 (201)	31.02	2254	0.268	0.268
84	100 (172,204)	31.26	2912	0.343	0.343

85	101 (192,197)	31.54	451	0.050	0.050
86	102 (180)	31.72	41758	3.786	3.786
87	103 (193)	31.95	2434	0.267	0.267
88	104 (191)	32.25	692	0.078	0.078
89	105 (200,169)	32.57	2614	0.268	0.268
90	106 (170)	33.68	13561	0.777	0.777
91	107 (190)	33.94	3887	0.268	0.268
92	108 (198)	34.75	860	0.064	0.064
93	109 (199)	34.97	17629	2.695	2.695
94	110 (196,203)	35.49	19616	2.711	2.711
95	111 (189)	36.62	184	0.013	0.013
96	112 (195)	38.07	6758	0.346	0.346
97	113 (208)	38.58	1310	0.179	0.179
98	114 (207)	39.48	798	0.057	0.057
99	115 (194)	40.82	18491	1.145	1.145
100	116 (205)	41.67	843	0.072	0.072
101	117 (206)	46.54	7094	0.459	0.459
102	118 (209)	52.28	10	0.001	0.001
103	Sum			109.511	109.511



Sample Name: CCCS0827A Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 08/28/2009 06:48:08 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 08/31/2009 18:24:43  
Sample Set Name: GC24\_082709 User Name: Brittney Ivey  
Processing Method: CSGB\_LL1X\_081109 Current Time: 15:17:44  
Run Time: 60 Minutes Current Date: 09/11/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-154-10

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.51	2007	7.233	7.233
2	4 (3)	12.62	794	5.533	5.533
3	5 (4,10)	13.21	1385	2.171	2.171
4	6 (7,9)	14.06	3135	0.685	0.685
5	7 (6)	14.36	2466	1.121	1.121
6	8 (5,8)	14.55	10678	8.988	8.988
7	10 (19)	15.17	935	0.270	0.270
8	13 (12,13)	15.91	513	0.161	0.161
9	14 (15,18)	16.02	9721	2.621	2.621
10	15 (17)	16.11	5265	2.808	2.808
11	16 (24,27)	16.40	1125	0.198	0.198
12	17 (16,32)	16.65	8857	2.761	2.761
13	19 (23,34,54)	17.10	82	0.021	0.021
14	20 (29)	17.30	173	0.028	0.028
15	21 (26)	17.41	2219	0.533	0.533
16	22 (25)	17.50	1273	0.231	0.231
17	23 (31)	17.69	12968	2.553	2.553
18	24 (28,50)	17.74	16920	2.915	2.915
19	25 (20,21,33,53)	18.09	11818	2.670	2.670
20	26 (22,51)	18.32	7637	1.815	1.815
21	27 (45)	18.54	3049	0.654	0.654
22	29 (46)	18.81	1177	0.296	0.296
23	31 (52,69,73)	19.11	12474	3.600	3.600
24	32 (43,49)	19.27	10202	1.468	1.468
25	33 (38,47)	19.39	4325	0.433	0.433
26	34 (48,75)	19.45	4472	0.645	0.645
27	36 (35)	19.68	75	0.025	0.025
28	37 (104,44)	19.84	15092	2.757	2.757
29	38 (37,42,59)	19.96	8977	2.026	2.026
30	39 (41,64,71,72)	20.31	17164	2.450	2.450
31	41 (68,96)	20.47	207	0.051	0.051
32	42 (40)	20.57	3901	0.683	0.683
33	43 (57,103)	20.81	166	0.029	0.029

34	44 (58,67,100)	21.00	577	0.072	0.072
35	45 (63)	21.16	900	0.112	0.112
36	46 (74,94,61)	21.32	9105	0.877	0.877
37	47 (70)	21.45	17281	2.104	2.104
38	48 (66,76,98,80,93,95,	21.57	22740	4.134	4.134
39	49 (55,91,121)	21.86	2038	0.333	0.333
40	50 (56,60)	22.17	15760	1.884	1.884
41	51 (84,92,155)	22.40	4630	1.485	1.485
42	52 (89)	22.51	405	0.069	0.069
43	53 (90,101)	22.66	8361	1.210	1.210
44	54 (79,99,113)	22.85	4010	0.377	0.377
45	55 (119,150)	23.13	217	0.015	0.015
46	56 (78,83,112,108)	23.23	728	0.130	0.130
47	57 (97,152,86)	23.44	3629	0.407	0.407
48	58 (81,87,117,125,115	23.61	6203	0.807	0.807
49	59 (116,85,111)	23.76	3449	0.363	0.363
50	60 (120,136)	23.88	2613	0.365	0.365
51	61 (77,110,148)	24.01	10234	1.466	1.466
52	63 (82)	24.38	2820	0.342	0.342
53	64 (151)	24.67	8404	1.109	1.109
54	65 (124,135)	24.81	2340	0.192	0.192
55	66 (144)	24.87	1958	0.398	0.398
56	67 (107,109,147)	24.94	566	0.079	0.079
57	68 (123)	25.05	150	0.019	0.019
58	69 (106,118,139,149)	25.12	20492	2.433	2.433
59	71 (114,134,143)	25.50	1019	0.119	0.119
60	72 (122,131,133,142)	25.71	175	0.016	0.016
61	73 (146,165,188)	25.98	2174	0.239	0.239
62	74 (105,132,161)	26.10	8838	0.778	0.778
63	75 (153)	26.24	18405	1.793	1.793
64	77 (141)	26.75	6363	0.945	0.945
65	78 (179)	26.81	7904	0.991	0.991
66	79 (137)	27.04	101	0.017	0.017
67	80 (130,176)	27.16	2594	0.148	0.148
68	82 (138,163,164)	27.38	15681	1.576	1.576
69	83 (158,160,186)	27.55	1641	0.148	0.148
70	84 (126,129)	27.75	236	0.006	0.006
71	85 (166,178)	28.07	3949	0.778	0.778
72	87 (175,159)	28.36	721	0.128	0.128
73	88 (182,187)	28.49	22192	2.314	2.314
74	89 (128,162)	28.60	894	0.067	0.067
75	90 (183)	28.79	9750	1.056	1.056
76	91 (167)	29.04	222	0.026	0.026
77	92 (185)	29.36	4230	0.316	0.316
78	93 (174,181)	29.71	18782	2.005	2.005
79	94 (177)	29.97	8702	1.043	1.043
80	95 (156,171)	30.26	4220	0.465	0.465
81	96 (157,202)	30.51	2939	0.047	0.047
82	98 (173)	30.67	242	0.023	0.023
83	99 (201)	31.02	2225	0.265	0.265
84	100 (172,204)	31.27	2909	0.343	0.343

85	101 (192,197)	31.53	442	0.049	0.049
86	102 (180)	31.72	41756	3.792	3.792
87	103 (193)	31.95	2331	0.256	0.256
88	104 (191)	32.24	536	0.061	0.061
89	105 (200,169)	32.57	2739	0.281	0.281
90	106 (170)	33.67	13142	0.754	0.754
91	107 (190)	33.93	3419	0.237	0.237
92	108 (198)	34.75	902	0.067	0.067
93	109 (199)	34.97	17825	2.730	2.730
94	110 (196,203)	35.49	19965	2.765	2.765
95	111 (189)	36.64	295	0.021	0.021
96	112 (195)	38.08	6569	0.337	0.337
97	113 (208)	38.56	1159	0.158	0.158
98	114 (207)	39.47	992	0.071	0.071
99	115 (194)	40.81	18009	1.117	1.117
100	116 (205)	41.65	721	0.062	0.062
101	117 (206)	46.52	7119	0.462	0.462
102	118 (209)	52.28	22	0.002	0.002
103	Sum			110.089	110.089



Sample Name: CCCS0827B Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 08/28/2009 10:04:21 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 08/28/2009 18:37:02  
Sample Set Name: GC24\_082709 User Name: Brittney Ivey  
Processing Method: CSGB\_LL1X\_081109 Current Time: 15:17:45  
Run Time: 60 Minutes Current Date: 09/11/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-154-13

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.51	1888	7.516	7.516
2	4 (3)	12.62	597	4.594	4.594
3	5 (4,10)	13.21	1187	2.056	2.056
4	6 (7,9)	14.06	2887	0.697	0.697
5	7 (6)	14.36	2383	1.198	1.198
6	8 (5,8)	14.55	9853	9.166	9.166
7	10 (19)	15.17	904	0.289	0.289
8	13 (12,13)	15.92	454	0.157	0.157
9	14 (15,18)	16.02	8752	2.607	2.607
10	15 (17)	16.11	4947	2.917	2.917
11	16 (24,27)	16.40	978	0.190	0.190
12	17 (16,32)	16.65	8063	2.777	2.777
13	19 (23,34,54)	17.11	39	0.011	0.011
14	20 (29)	17.29	106	0.019	0.019
15	21 (26)	17.41	2069	0.550	0.550
16	22 (25)	17.50	1181	0.237	0.237
17	23 (31)	17.69	12229	2.661	2.661
18	24 (28,50)	17.74	15528	2.957	2.957
19	25 (20,21,33,53)	18.09	10944	2.733	2.733
20	26 (22,51)	18.32	7312	1.921	1.921
21	27 (45)	18.54	2823	0.669	0.669
22	29 (46)	18.81	1081	0.300	0.300
23	30 (39)	18.95	10	0.004	0.004
24	31 (52,69,73)	19.10	11411	3.639	3.639
25	32 (43,49)	19.27	9372	1.491	1.491
26	33 (38,47)	19.39	4059	0.450	0.450
27	34 (48,75)	19.45	4065	0.648	0.648
28	36 (35)	19.70	109	0.041	0.041
29	37 (104,44)	19.84	13778	2.781	2.781
30	38 (37,42,59)	19.96	8236	2.054	2.054
31	39 (41,64,71,72)	20.31	15672	2.472	2.472
32	41 (68,96)	20.46	209	0.056	0.056
33	42 (40)	20.57	3654	0.707	0.707

34	43 (57,103)	20.82	149	0.029	0.029
35	44 (58,67,100)	21.00	497	0.068	0.068
36	45 (63)	21.16	760	0.104	0.104
37	46 (74,94,61)	21.32	8256	0.879	0.879
38	47 (70)	21.45	15820	2.128	2.128
39	48 (66,76,98,80,93,95,	21.57	21341	4.289	4.289
40	49 (55,91,121)	21.86	2014	0.363	0.363
41	50 (56,60)	22.17	14221	1.878	1.878
42	51 (84,92,155)	22.40	4186	1.483	1.483
43	52 (89)	22.50	345	0.065	0.065
44	53 (90,101)	22.66	7575	1.212	1.212
45	54 (79,99,113)	22.85	3637	0.378	0.378
46	55 (119,150)	23.14	191	0.014	0.014
47	56 (78,83,112,108)	23.23	670	0.133	0.133
48	57 (97,152,86)	23.44	3244	0.402	0.402
49	58 (81,87,117,125,115	23.61	5650	0.813	0.813
50	59 (116,85,111)	23.76	3091	0.360	0.360
51	60 (120,136)	23.88	2396	0.370	0.370
52	61 (77,110,148)	24.01	9341	1.479	1.479
53	63 (82)	24.38	2503	0.335	0.335
54	64 (151)	24.67	7624	1.112	1.112
55	65 (124,135)	24.81	2220	0.201	0.201
56	66 (144)	24.87	1647	0.369	0.369
57	67 (107,109,147)	24.94	517	0.079	0.079
58	68 (123)	25.05	135	0.019	0.019
59	69 (106,118,139,149)	25.12	18561	2.435	2.435
60	71 (114,134,143)	25.50	891	0.115	0.115
61	72 (122,131,133,142)	25.69	123	0.013	0.013
62	73 (146,165,188)	25.97	1973	0.240	0.240
63	74 (105,132,161)	26.10	8089	0.787	0.787
64	75 (153)	26.24	16954	1.825	1.825
65	76 (127,168,184)	26.37	13	0.002	0.002
66	77 (141)	26.75	5736	0.942	0.942
67	78 (179)	26.81	7409	1.027	1.027
68	79 (137)	27.02	190	0.037	0.037
69	80 (130,176)	27.16	2399	0.151	0.151
70	82 (138,163,164)	27.38	14039	1.559	1.559
71	83 (158,160,186)	27.54	1351	0.134	0.134
72	84 (126,129)	27.75	195	0.006	0.006
73	85 (166,178)	28.07	3500	0.762	0.762
74	87 (175,159)	28.36	622	0.122	0.122
75	88 (182,187)	28.50	20202	2.328	2.328
76	89 (128,162)	28.61	811	0.067	0.067
77	90 (183)	28.79	8946	1.071	1.071
78	91 (167)	29.06	211	0.027	0.027
79	92 (185)	29.37	3735	0.308	0.308
80	93 (174,181)	29.72	17152	2.023	2.023
81	94 (177)	29.97	8027	1.063	1.063
82	95 (156,171)	30.27	3798	0.463	0.463
83	96 (157,202)	30.51	2618	0.046	0.046
84	98 (173)	30.67	220	0.023	0.023

85	99 (201)	31.03	1925	0.253	0.253
86	100 (172,204)	31.27	2543	0.331	0.331
87	101 (192,197)	31.54	421	0.051	0.051
88	102 (180)	31.72	37861	3.799	3.799
89	103 (193)	31.96	2132	0.258	0.258
90	104 (191)	32.23	464	0.059	0.059
91	105 (200,169)	32.57	2568	0.292	0.292
92	106 (170)	33.68	12128	0.769	0.769
93	107 (190)	33.94	3500	0.267	0.267
94	108 (198)	34.77	917	0.075	0.075
95	109 (199)	34.97	16640	2.816	2.816
96	110 (196,203)	35.50	18232	2.790	2.790
97	111 (189)	36.61	224	0.017	0.017
98	112 (195)	38.09	6047	0.342	0.342
99	113 (208)	38.56	1098	0.166	0.166
100	114 (207)	39.45	740	0.059	0.059
101	115 (194)	40.81	16608	1.138	1.138
102	116 (205)	41.67	801	0.075	0.075
103	117 (206)	46.53	6447	0.462	0.462
104	118 (209)	52.29	1	0.000	0.000
105	Sum			110.719	110.719

# QC Sample Raw Data

PCB SAMPLE ANALYSIS DATA SHEET

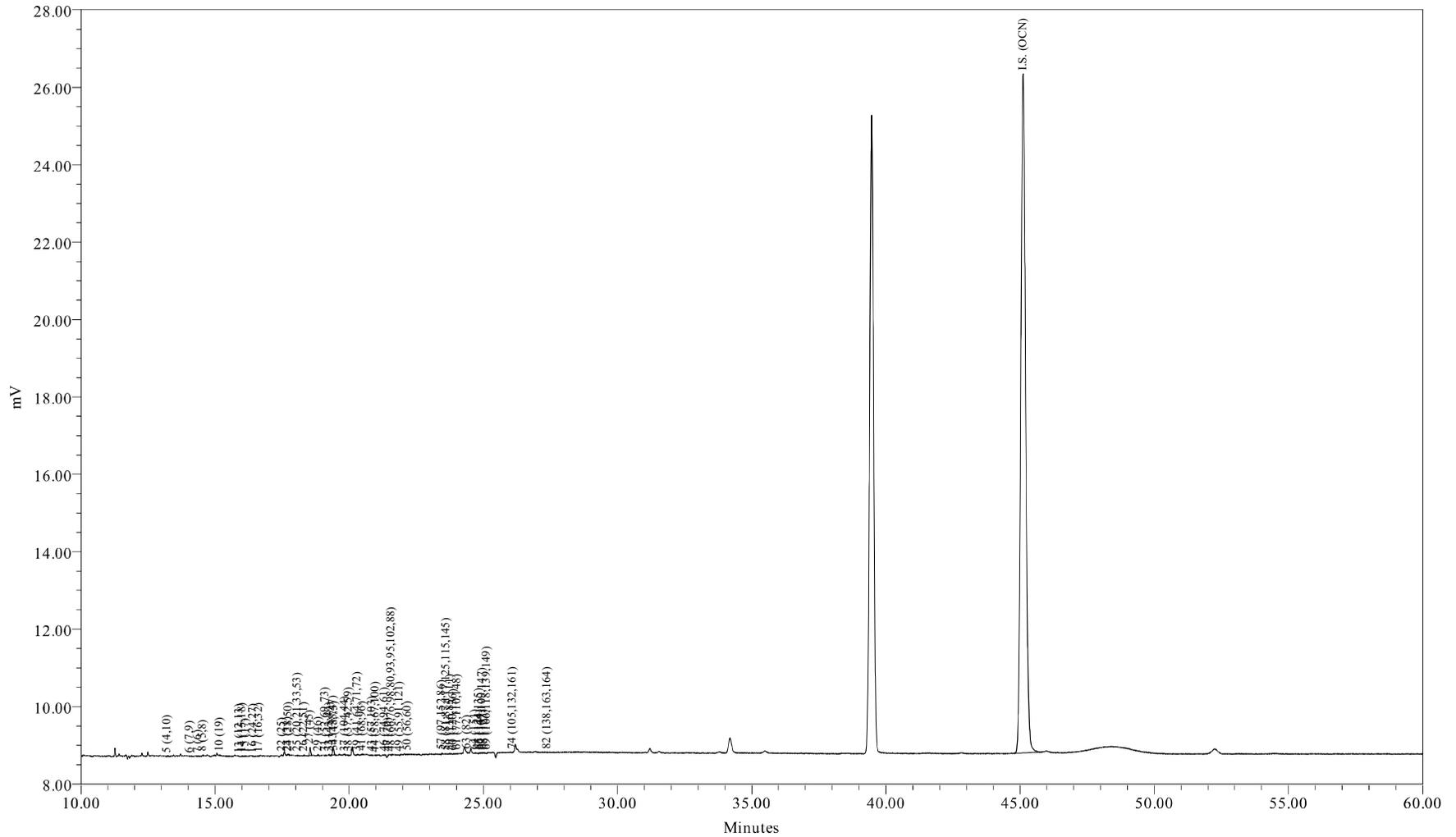
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09080314
ELAP ID No:	11078	LRF ID:	CEBLK-10
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-10(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM14526B
% Moisture:	100	Lab File ID:	GC24-151-1
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	08/24/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	08/24/2009 10:45
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm		

OCN (I.S.) Peak Area: 220921

Percent Recovery (50 - 150 %): 123

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

Visual Aroclor ID: No Aroclor Pattern Detected



Sample Name: AM14526B  
Sample ID: METHOD BLANK  
Date Acquired: 8/24/2009 10:45:37 AM EDT

Sample Amount (L): 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-151-1

Sample Name: AM14526B

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/24/2009 10:45:37  
 Lab Sample ID: AM14526B  
 LRF ID: CEBLK-10  
 Lab File ID: GC24-151-1

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <9.10 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	0.00	0.00
Tri	0.00	0.00
Tetra	100.00	100.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.75

Meta + Para Cl / biphenyl Residue = 1.25

Total Cl / biphenyl Residue = 4.00

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/24/2009 10:45:37  
 Lab Sample ID: AM14526B  
 LRF ID: CEBLK-10  
 Lab File ID: GC24-151-1

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				0.529	2.19	U
3	12.52	188.7				6.63	1000	U
4	12.62	188.7				0.355	1.28	U
5	13.22	223.1	1			0.134	0.621	U
6	14.06	223.1	1			0.0721	0.219	U
7	14.37	223.1	2			0.158	0.347	U
8	14.55	223.1	30			0.542	2.56	U
9	15.10	223.1				0.294	25.0	U
10	15.18	257.5	6			0.0604	0.102	U
11	15.64	257.5				0.198	25.0	U
12	15.71	223.1				0.306	25.0	U
13	15.91	223.1	1			0.0559	0.0975	U
14	16.01	249.0	38			0.128	0.676	U
15	16.13	257.5	20			0.143	0.676	U
16	16.42	257.5	10			0.0374	0.0475	U
17	16.65	257.5	16			0.166	0.713	U
19	17.11	267.9				0.128	25.0	U
20	17.29	257.5				0.0108	0.0194	U
21	17.42	257.5				0.0606	0.132	U
22	17.50	257.5	29			0.0426	0.0585	U
23	17.70	257.5	53			0.487	0.753	U
24	17.74	257.5	55			0.211	0.964	U
25	18.07	259.5	35			0.105	0.726	U
26	18.32	258.7	35			0.120	0.530	U
27	18.54	292.0	578	0.590	2.02	0.0367	0.163	
28	18.69	257.5				0.375	25.0	U
29	18.84	292.0	74			0.127	0.127	U
30	18.95	257.5				0.120	25.0	U
31	19.11	292.0	43			0.204	0.872	U
32	19.27	292.0	25			0.0978	0.420	U
33	19.40	292.0	583	0.201	0.690	0.0656	0.183	
34	19.44	292.0	16			0.0579	0.183	U
35	19.59	292.0				0.205	25.0	U
36	19.68	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0	25			0.160	0.786	U
38	19.97	272.4	6			0.115	0.475	U
39	20.31	292.0	38			0.121	0.749	U
41	20.49	326.4	61			0.115	25.0	U
42	20.58	292.0				0.0968	0.172	U
43	20.86	298.9	31			0.152	25.0	U
44	20.99	298.9	10			0.0225	0.0402	U
45	21.16	292.0				0.0299	0.0384	U
46	21.32	292.0	5			0.0821	0.347	U
47	21.46	292.0	2			0.164	0.621	U
48	21.57	293.5	4			0.243	1.32	U
49	21.87	324.7	1			0.0376	0.0932	U
50	22.18	292.0	1			0.359	0.640	U
51	22.41	326.4				0.0888	0.329	U
52	22.52	326.4				0.0384	0.0384	U
53	22.67	326.4				0.0691	0.329	U
54	22.86	326.4				0.101	0.135	U
55	23.14	326.4				0.00644	0.0102	U
56	23.24	326.4				0.0647	0.0647	U
57	23.45	326.4	64			0.0435	0.102	U
58	23.62	326.4	1			0.0841	0.212	U
59	23.77	326.4	6			0.0484	0.128	U
60	23.88	360.9	2			0.0772	0.137	U
61	24.02	326.4	7			0.0668	0.389	U
62	24.30	360.9				0.113	25.0	U
63	24.40	326.4	5			0.0201	0.0804	U
64	24.69	360.9	5			0.0518	0.311	U
65	24.83	350.5	4			0.0149	0.0530	U
66	24.88	360.9	1			0.0541	0.110	U
67	24.96	336.8	2			0.0348	0.0475	U
68	25.03	326.4	2			0.125	25.0	U
69	25.13	337.5	2			0.0938	0.731	U
70	25.24	360.9				0.0829	25.0	U
71	25.52	347.8				0.0348	0.0369	U
72	25.72	336.8				0.00638	0.0106	U
73	25.99	360.9				0.0320	0.0713	U
74	26.10	347.8	2			0.0721	0.248	U
75	26.26	360.9				0.109	0.538	U
76	26.36	360.9				0.107	25.0	U
77	26.76	360.9				0.0637	0.311	U
78	26.82	395.3				0.0470	0.267	U
79	27.03	360.9				0.0501	0.0501	U
80	27.17	360.9				0.0151	0.0475	U
82	27.39	360.9	1			0.108	0.493	U
83	27.56	360.9				0.0450	0.0457	U
84	27.75	360.9				0.00310	0.00473	U
85	28.08	395.3				0.0677	0.201	U
87	28.38	395.3				0.0156	0.0731	U
88	28.51	395.3				0.102	0.658	U
89	28.63	360.9				0.0199	0.0366	U
90	28.81	395.3				0.0679	0.311	U
91	29.06	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.0225	0.0859	U
93	29.73	394.3				0.102	0.585	U
94	29.99	394.3				0.0936	0.311	U
95	30.27	382.2				0.0871	0.144	U
96	30.53	429.8				0.00942	0.0121	U
98	30.69	395.3				0.0133	0.0139	U
99	31.05	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.53	429.8				0.217	0.217	U
102	31.73	395.3				0.150	1.11	U
103	31.97	395.3				0.0640	0.0768	U
104	32.26	395.3				0.0374	0.0438	U
105	32.59	429.8				0.0460	0.0786	U
106	33.70	395.3				0.0538	0.234	U
107	33.96	395.3				0.0213	0.0768	U
108	34.77	429.8				0.0324	0.0438	U
109	34.99	429.8				0.116	0.768	U
110	35.52	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = <9.10 ng/L 9.10 32.2 U

Total Nanomoles = 0.003

Average Molecular Weight = 292.0

Number of Calibrated Peaks Found = 46

Internal Standard Retention Time = 45.12 minutes

Internal Standard Peak Area = 220921.2

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/24/2009 10:45:37  
 Lab Sample ID: AM14526B  
 LRF ID: CEBLK-10  
 Lab File ID: GC24-151-1

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	2		-	-
3	12.52	1:0	002	3		-	-
4	12.62	1:0	003	4		-	-
5	13.22	2:2	004 010	2-2; 26		-	-
6	14.06	2:1	007 009	24; 25		-	-
7	14.37	2:1	006	2-3		-	-
8	14.55	2:1	005 008	23; 2-4		-	-
9	15.10	2:0	014	35		-	-
10	15.18	3:3	019	26-2		-	-
11	15.64	3:2	030	246		-	-
12	15.71	2:0	011	3-3		-	-
13	15.91	2:0	012 013	34; 3-4		-	-
14	16.01	2:0 3:2	015 018	4-4; 25-2		-	-
15	16.13	3:2	017	24-2		-	-
16	16.42	3:2	024 027	236; 26-3		-	-
17	16.65	3:2	016 032	23-2; 26-4		-	-
19	17.11	3:1 4:4	023 034 054	235; 35-2; 26-26		-	-
20	17.29	3:1	029	245		-	-
21	17.42	3:1	026	25-3		-	-
22	17.50	3:1	025	24-3		-	-
23	17.70	3:1	031	25-4		-	-
24	17.74	3:1 4:3	028 050	24-4; 246-2		-	-
25	18.07	3:1 4:3	020 021 033 053	23-3; 234; 34-2; 25-26		-	-
26	18.32	3:1 4:3	022 051	23-4; 24-26		-	-
27	18.54	4:3	045	0.4109 236-2		74.555	74.555
28	18.69	3:0	036	35-3		-	-
29	18.84	4:3	046	23-26		-	-
30	18.95	3:0	039	35-4		-	-
31	19.11	4:2	052 069 073	25-25; 246-3; 26-35		-	-
32	19.27	4:2	043 049	235-2; 24-25		-	-
33	19.40	4:2	038 047	0.4300 345; 24-24		25.445	25.445
34	19.44	4:2	048 075	245-2; 246-4		-	-
35	19.59	4:2	062 065	2346; 2356		-	-
36	19.68	3:0	035	34-3		-	-
37	19.84	5:4 4:2	104 044	246-26; 23-25		-	-
38	19.97	3:0 4:2	037 042 059	34-4; 23-24; 236-3		-	-
39	20.31	4:2	041 064 071 072	234-2; 236-4; 26-34; 25-35		-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.49	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.86	4:1 5:3	057 103		235-3; 246-25	-	-
44	20.99	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.32	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.87	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.18	4:1	056 060		23-34; 234-4	-	-
51	22.41	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.52	5:3	089		234-26	-	-
53	22.67	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.14	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.24	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.45	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.62	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.30	6:3	154		245-246	-	-
63	24.40	5:2	082		234-23	-	-
64	24.69	6:3	151		2356-25	-	-
65	24.83	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.88	6:3	144		2346-25	-	-
67	24.96	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.03	5:1	123		345-24	-	-
69	25.13	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.99	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.82	7:4	179		2356-236	-	-
79	27.03	6:2	137		2345-24	-	-
80	27.17	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.39	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = <9.10 ng/L

Total Nanomoles = 0.003

Average Molecular Weight = 292.0

Number of Calibrated Peaks Found = 46

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: ORGANIC FREE WATER  
Sample Wt(Dry)/Vol: 1000 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03.DOC  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

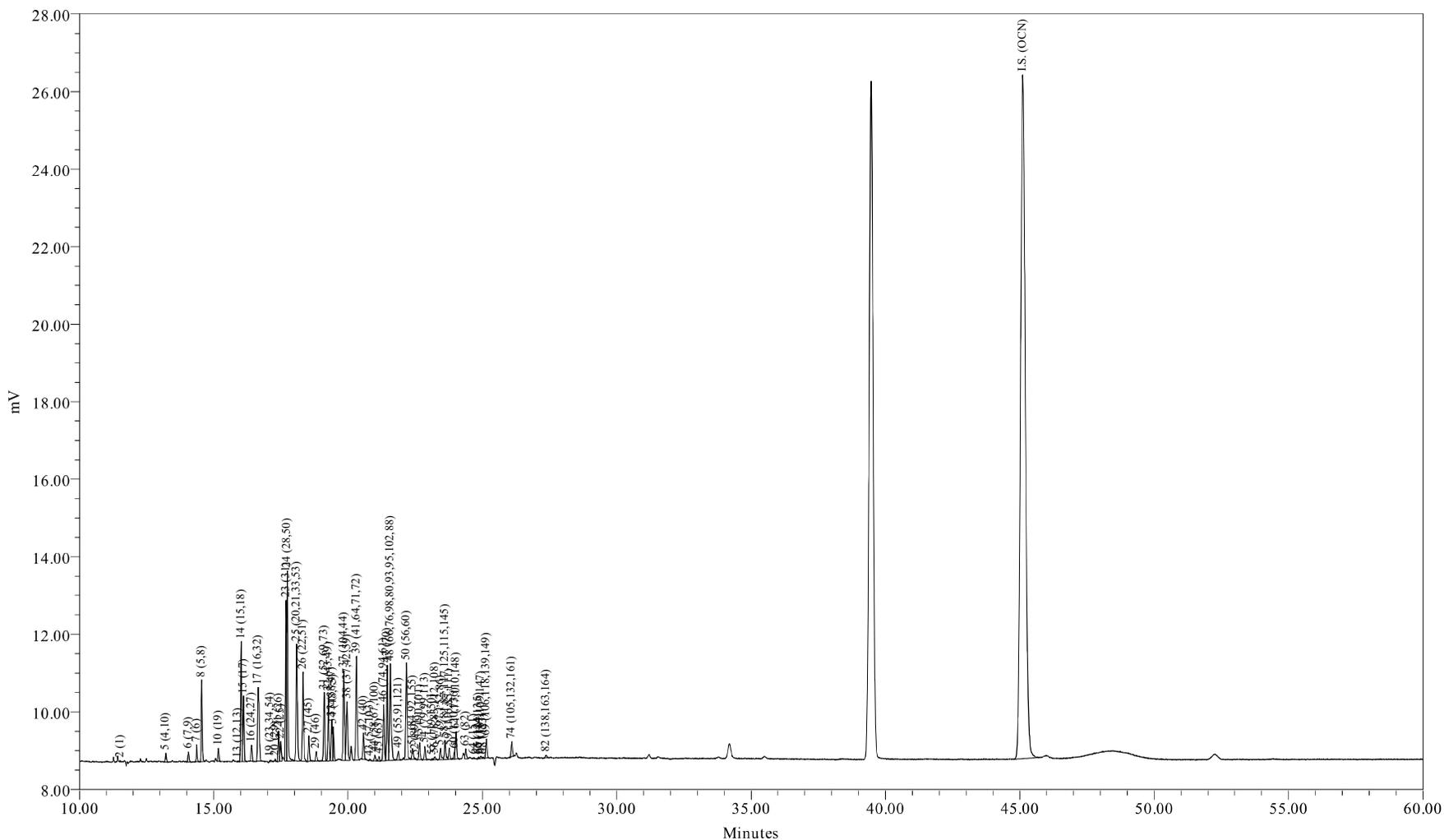
SDG No: 09080314  
LRF ID: LCS-10  
Client ID: LCS-10(LAB CONTROL SPIKE)  
Lab Sample ID: AM14526L  
Lab File ID: GC24-151-2  
Date Received: \_\_\_\_\_  
Date Extracted: 08/24/2009  
Date/Time Analyzed: 08/24/2009 11:51  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 221347

Percent Recovery (50 - 150 %): 123

SAMPLE TOTAL PCB CONCENTRATION: 185 ng/L

Visual Aroclor ID: PCB Added to Sample



Sample Name: AM14526L  
Sample ID: LAB CONTROL SPIKE  
Date Acquired: 8/24/2009 11:51:04 AM EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-151-2

Sample Name: AM14526L

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/24/2009 11:51:04  
 Lab Sample ID: AM14526L  
 LRF ID: LCS-10  
 Lab File ID: GC24-151-2

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 185 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.41	0.57
Di	17.63	20.59
Tri	46.13	47.03
Tetra	30.12	27.24
Penta	5.19	4.19
Hexa	0.52	0.39
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	0.7509	3.01	3.12
A1242	23+24/31+28	22.6034	90.5	93.9
A1254SED	61/100	1.6215	6.49	
A1254BIO	69+75+82/149+153+138	0.7230		3.00
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.45

Meta + Para Cl / biphenyl Residue = 1.70

Total Cl / biphenyl Residue = 3.15

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/24/2009 11:51:04  
 Lab Sample ID: AM14526L  
 LRF ID: LCS-10  
 Lab File ID: GC24-151-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.52	188.7	47	0.751	3.98	0.529	2.19	J
3	12.52	188.7				6.63	1000	U
4	12.62	188.7				0.355	1.28	U
5	13.21	223.1	595	4.51	20.2	0.134	0.621	
6	14.06	223.1	827	0.839	3.76	0.0721	0.219	
7	14.36	223.1	1028	2.24	10.0	0.158	0.347	
8	14.55	223.1	5521	22.3	99.8	0.542	2.56	
9	15.10	223.1				0.294	25.0	U
10	15.17	257.5	858	1.20	4.66	0.0604	0.102	
11	15.64	257.5				0.198	25.0	U
12	15.71	223.1				0.306	25.0	U
13	15.91	223.1	59	0.0937	0.420	0.0559	0.0975	J
14	16.02	249.0	8237	10.8	43.2	0.128	0.676	
15	16.11	257.5	4874	12.6	49.0	0.143	0.676	
16	16.41	257.5	1143	0.978	3.80	0.0374	0.0475	
17	16.65	257.5	8354	12.6	49.1	0.166	0.713	
19	17.11	267.9	161	0.203	0.759	0.128	25.0	J
20	17.29	257.5	198	0.158	0.615	0.0108	0.0194	
21	17.42	257.5	2164	2.53	9.82	0.0606	0.132	
22	17.50	257.5	1556	1.37	5.33	0.0426	0.0585	
23	17.69	257.5	10186	9.71	37.7	0.487	0.753	
24	17.74	257.5	15435	12.9	50.1	0.211	0.964	
25	18.09	259.5	10649	11.7	45.0	0.105	0.726	
26	18.32	258.7	7252	8.38	32.4	0.120	0.530	
27	18.54	292.0	2046	2.13	7.28	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.81	292.0	865	1.06	3.62	0.127	0.127	
30	18.95	257.5				0.120	25.0	U
31	19.11	292.0	5478	7.58	25.9	0.204	0.872	
32	19.27	292.0	5273	3.64	12.5	0.0978	0.420	
33	19.39	292.0	3413	1.64	5.61	0.0656	0.183	B
34	19.45	292.0	2555	1.78	6.11	0.0579	0.183	
35	19.59	292.0				0.205	25.0	U
36	19.68	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0	7344	6.28	21.5	0.160	0.786	
38	19.96	272.4	6187	6.77	24.9	0.115	0.475	
39	20.31	292.0	8811	6.05	20.7	0.121	0.749	
41	20.48	326.4				0.115	25.0	U
42	20.57	292.0	2013	1.71	5.87	0.0968	0.172	
43	20.81	298.9	120			0.152	25.0	U
44	21.00	298.9	552	0.333	1.11	0.0225	0.0402	
45	21.16	292.0	347	0.201	0.688	0.0299	0.0384	
46	21.32	292.0	4582	2.10	7.18	0.0821	0.347	
47	21.46	292.0	7803	4.51	15.5	0.164	0.621	
48	21.57	293.5	9767	8.41	28.7	0.243	1.32	
49	21.87	324.7	854	0.680	2.09	0.0376	0.0932	
50	22.17	292.0	8346	4.78	16.4	0.359	0.640	
51	22.40	326.4	1061	1.62	4.96	0.0888	0.329	
52	22.50	326.4	58	0.0424	0.130	0.0384	0.0384	
53	22.66	326.4	1428	0.942	2.88	0.0691	0.329	
54	22.86	326.4	1056	0.469	1.44	0.101	0.135	
55	23.14	326.4	109	0.0355	0.109	0.00644	0.0102	
56	23.24	326.4	285	0.247	0.756	0.0647	0.0647	
57	23.44	326.4	1140	0.602	1.85	0.0435	0.102	
58	23.61	326.4	1770	1.08	3.32	0.0841	0.212	
59	23.76	326.4	959	0.480	1.47	0.0484	0.128	
60	23.97	360.9	474	0.335	0.929	0.0772	0.137	
61	24.02	326.4	2454	1.62	4.97	0.0668	0.389	
62	24.30	360.9				0.113	25.0	U
63	24.38	326.4	961	0.561	1.72	0.0201	0.0804	
64	24.68	360.9	26			0.0518	0.311	U
65	24.85	350.5	113	0.0406	0.116	0.0149	0.0530	J
66	24.87	360.9	42			0.0541	0.110	U
67	24.94	336.8	240	0.158	0.469	0.0348	0.0475	
68	25.03	326.4	78			0.125	25.0	U
69	25.15	337.5	1652	0.723	2.14	0.0938	0.731	J
70	25.24	360.9				0.0829	25.0	U
71	25.52	347.8				0.0348	0.0369	U
72	25.72	336.8				0.00638	0.0106	U
73	25.99	360.9				0.0320	0.0713	U
74	26.09	347.8	1291	0.525	1.51	0.0721	0.248	
75	26.26	360.9				0.109	0.538	U
76	26.36	360.9				0.107	25.0	U
77	26.76	360.9				0.0637	0.311	U
78	26.82	395.3				0.0470	0.267	U
79	27.03	360.9				0.0501	0.0501	U
80	27.17	360.9				0.0151	0.0475	U
82	27.37	360.9	286			0.108	0.493	U
83	27.56	360.9				0.0450	0.0457	U
84	27.75	360.9				0.00310	0.00473	U
85	28.08	395.3				0.0677	0.201	U
87	28.38	395.3				0.0156	0.0731	U
88	28.51	395.3				0.102	0.658	U
89	28.63	360.9				0.0199	0.0366	U
90	28.81	395.3				0.0679	0.311	U
91	29.06	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.38	394.3				0.0225	0.0859	U
93	29.73	394.3				0.102	0.585	U
94	29.99	394.3				0.0936	0.311	U
95	30.27	382.2				0.0871	0.144	U
96	30.53	429.8				0.00942	0.0121	U
98	30.69	395.3				0.0133	0.0139	U
99	31.05	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.53	429.8				0.217	0.217	U
102	31.73	395.3				0.150	1.11	U
103	31.97	395.3				0.0640	0.0768	U
104	32.26	395.3				0.0374	0.0438	U
105	32.59	429.8				0.0460	0.0786	U
106	33.70	395.3				0.0538	0.234	U
107	33.96	395.3				0.0213	0.0768	U
108	34.77	429.8				0.0324	0.0438	U
109	34.99	429.8				0.116	0.768	U
110	35.52	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 185 ng/L

9.10 32.2

Total Nanomoles = 0.704

Average Molecular Weight = 262.7

Number of Calibrated Peaks Found = 57

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 221347.2

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090824-CNEA-01  
 Date Acquired: 08/24/2009 11:51:04  
 Lab Sample ID: AM14526L  
 LRF ID: LCS-10  
 Lab File ID: GC24-151-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.52	1:1	001	0.2554	2	0.406	0.565
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003		4	-	-
5	13.21	2:2	004 010	0.2928	2-2; 26	2.440	2.873
6	14.06	2:1	007 009	0.3117	24; 25	0.454	0.534
7	14.36	2:1	006	0.3183	2-3	1.209	1.424
8	14.55	2:1	005 008	0.3225	23; 2-4	12.034	14.172
9	15.10	2:0	014		35	-	-
10	15.17	3:3	019	0.3363	26-2	0.649	0.662
11	15.64	3:2	030		246	-	-
12	15.71	2:0	011		3-3	-	-
13	15.91	2:0	012 013	0.3527	34; 3-4	0.051	0.060
14	16.02	2:0 3:2	015 018	0.3551	4-4; 25-2	5.818	6.139
15	16.11	3:2	017	0.3571	24-2	6.821	6.960
16	16.41	3:2	024 027	0.3638	236; 26-3	0.529	0.540
17	16.65	3:2	016 032	0.3691	23-2; 26-4	6.838	6.977
19	17.11	3:1 4:4	023 034 054	0.3793	235; 35-2; 26-26	0.110	0.108
20	17.29	3:1	029	0.3833	245	0.086	0.087
21	17.42	3:1	026	0.3862	25-3	1.367	1.395
22	17.50	3:1	025	0.3879	24-3	0.741	0.757
23	17.69	3:1	031	0.3922	25-4	5.250	5.357
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	6.972	7.114
25	18.09	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	6.311	6.389
26	18.32	3:1 4:3	022 051	0.4061	23-4; 24-26	4.529	4.599
27	18.54	4:3	045	0.4110	236-2	1.149	1.034
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4170	23-26	0.572	0.515
30	18.95	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	4.097	3.686
32	19.27	4:2	043 049	0.4272	235-2; 24-25	1.967	1.770
33	19.39	4:2	038 047	0.4298	345; 24-24	0.886	0.797
34	19.45	4:2	048 075	0.4312	245-2; 246-4	0.965	0.868
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.68	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044	0.4398	246-26; 23-25	3.396	3.055
38	19.96	3:0 4:2	037 042 059	0.4425	34-4; 23-24; 236-3	3.663	3.533
39	20.31	4:2	041 064 071 072	0.4502	234-2; 236-4; 26-34; 25-35	3.272	2.944

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096		24-35; 236-26	-	-
42	20.57	4:2	040	0.4560	23-23	0.927	0.834
43	20.81	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.00	4:1 5:3	058 067 100	0.4655	23-35; 245-3; 246-24	0.180	0.158
45	21.16	4:1	063	0.4691	235-4	0.109	0.098
46	21.32	4:1 5:3	074 094 061	0.4726	245-4; 235-26; 2345	1.134	1.021
47	21.46	4:1	070	0.4757	25-34	2.440	2.195
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088	0.4782	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.547	4.071
49	21.87	4:1 5:3	055 091 121	0.4848	234-3; 236-24; 246-35	0.368	0.297
50	22.17	4:1	056 060	0.4915	23-34; 234-4	2.586	2.327
51	22.40	5:3 6:4	084 092 155	0.4966	236-23; 235-25; 246-246	0.875	0.704
52	22.50	5:3	089	0.4988	234-26	0.023	0.018
53	22.66	5:2	090 101	0.5023	235-24; 245-25	0.509	0.410
54	22.86	5:2	079 099 113	0.5068	34-35; 245-24; 236-35	0.254	0.204
55	23.14	5:2 6:4	119 150	0.5130	246-34; 236-246	0.019	0.015
56	23.24	5:2	078 083 112 108	0.5152	345-3; 235-23; 2356-3; 2346-3	0.133	0.107
57	23.44	5:2 6:4	097 152 086	0.5196	245-23; 2356-26; 2345-2	0.326	0.262
58	23.61	5:2	081 087 117 125 115 145	0.5234	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.586	0.472
59	23.76	5:2	116 085 111	0.5267	23456; 234-24; 235-35	0.259	0.209
60	23.97	6:4	120 136	0.5314	245-35; 236-236	0.181	0.132
61	24.02	5:2	077 110 148	0.5325	34-34; 236-34; 235-246	0.877	0.706
62	24.30	6:3	154		245-246	-	-
63	24.38	5:2	082	0.5405	234-23	0.303	0.244
64	24.68	6:3	151		2356-25	-	-
65	24.85	5:1 6:3	124 135	0.5509	345-25; 235-236	0.022	0.016
66	24.87	6:3	144		2346-25	-	-
67	24.94	5:1 6:3	107 109 147	0.5529	234-35; 235-34; 2356-24	0.085	0.067
68	25.03	5:1	123		345-24	-	-
69	25.15	5:1 6:3	106 118 139 149	0.5575	2345-3; 245-34; 2346-24; 236-245	0.391	0.304
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.99	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.09	5:1 6:3	105 132 161	0.5784	234-34; 234-236; 2346-35	0.284	0.215
75	26.26	6:2	153		245-245	-	-
76	26.36	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.82	7:4	179		2356-236	-	-
79	27.03	6:2	137		2345-24	-	-
80	27.17	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.37	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.56	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.75	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.38	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.63	6:2	128 162		234-234; 235-345	-	-
90	28.81	7:3	183		2346-245	-	-
91	29.06	6:1	167		245-345	-	-
92	29.38	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	29.99	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.69	7:3	173		23456-23	-	-
99	31.05	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.53	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.97	7:2	193		2356-345	-	-
104	32.26	7:2	191		2346-345	-	-
105	32.59	8:4	200 169		23456-236; 345-345	-	-
106	33.70	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>		23456-34	-	-
108	34.77	8:3	<b>198</b>		23456-235	-	-
109	34.99	8:3	<b>199</b>		2345-2356	-	-
110	35.52	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 185 ng/L

Total Nanomoles = 0.704

Average Molecular Weight = 262.7

Number of Calibrated Peaks Found = 57

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

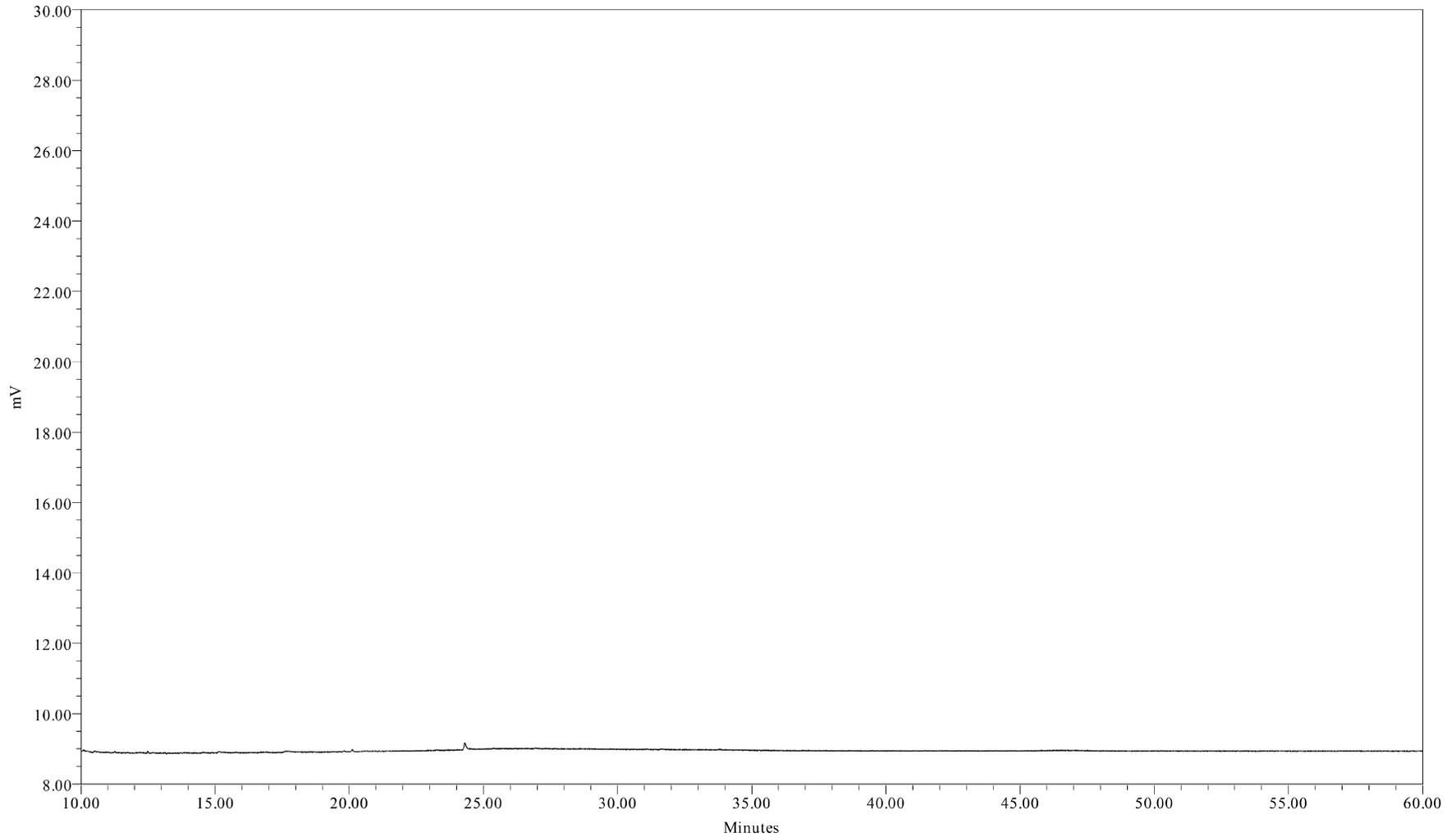
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: 090822B01  
Sample ID: HEXANE BLANK  
Date Acquired: 8/22/2009 7:13:09 AM EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_081109  
LIMS File ID: GC24-149-1

Sample Name: 090822B01

1 of 1

# MDL Studies

## Pooled Modified Green Bay Method MDL 1 Liter

Compiled May 2009

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL	
Water Column	PCBs (1 liter)	Total PCB (sum of congeners)	1336-36-3	Modified Green Bay Mass Balance Method (NEA 207_03)	ng/L	9.10	32.2	
		DB-1 Peak:	02	2051-60-7	NEA 207_03	ng/L	0.529	2.19
			03	2051-61-8	NEA 207_03	ng/L	6.63	1000
			04	2051-62-9	NEA 207_03	ng/L	0.355	1.28
			05	13029-08-8 33146-45-1	NEA 207_03	ng/L	0.134	0.621
			06	33284-50-3 34883-39-1	NEA 207_03	ng/L	0.0721	0.219
			07	25569-80-6	NEA 207_03	ng/L	0.158	0.347
			08	16605-91-7 34883-43-7	NEA 207_03	ng/L	0.542	2.56
			09	34883-41-5	NEA 207_03	ng/L	0.294	25.0
			10	38444-73-4	NEA 207_03	ng/L	0.0604	0.102
			11	35693-92-6	NEA 207_03	ng/L	0.198	25.0
			12	2050-67-1	NEA 207_03	ng/L	0.306	25.0
			13	2974-92-7 2974-90-5	NEA 207_03	ng/L	0.0559	0.0975
			14	2050-68-2 37680-65-2	NEA 207_03	ng/L	0.128	0.676
			15	37680-66-3	NEA 207_03	ng/L	0.143	0.676
			16	55702-45-9 38444-76-7	NEA 207_03	ng/L	0.0374	0.047
			17	38444-78-9 38444-77-8	NEA 207_03	ng/L	0.166	0.713
			19	55720-44-0 37680-68-5 15968-05-5	NEA 207_03	ng/L	0.128	25.0
			20	15862-07-4	NEA 207_03	ng/L	0.0108	0.0194
			21	38444-81-4	NEA 207_03	ng/L	0.0606	0.132
			22	55712-37-3	NEA 207_03	ng/L	0.0426	0.0585
			23	16606-02-3	NEA 207_03	ng/L	0.487	0.753
			24	7012-37-5 62796-65-0	NEA 207_03	ng/L	0.211	0.964
			25	38444-84-7 55702-46-0 38444-86-9 41464-41-9	NEA 207_03	ng/L	0.105	0.726
			26	38444-85-8 68194-04-7	NEA 207_03	ng/L	0.120	0.530
			27	70362-45-7	NEA 207_03	ng/L	0.0367	0.163
			28	38444-87-0	NEA 207_03	ng/L	0.375	25.0
			29	41464-47-5	NEA 207_03	ng/L	0.127	0.127
			30	38444-88-1	NEA 207_03	ng/L	0.120	25.0
			31	35693-99-3 60233-24-1 74338-23-1	NEA 207_03	ng/L	0.204	0.872
			32	70362-46-8 41464-40-8	NEA 207_03	ng/L	0.0978	0.420
			33	53555-66-1 2437-79-8	NEA 207_03	ng/L	0.0656	0.183
			34	70362-47-9 32598-12-2	NEA 207_03	ng/L	0.0579	0.183
			35	54230-22-7 33284-54-7	NEA 207_03	ng/L	0.205	25.0
			36	37680-69-6	NEA 207_03	ng/L	0.144	25.0
			37	56558-16-8 41464-39-5	NEA 207_03	ng/L	0.160	0.786
			38	38444-90-5 36559-22-5 74472-33-6	NEA 207_03	ng/L	0.115	0.475
			39	52663-59-9 52663-58-8 41464-46-4 41464-42-0	NEA 207_03	ng/L	0.121	0.749
			41	73575-52-7 73575-54-9	NEA 207_03	ng/L	0.115	25.0
			42	38444-93-8	NEA 207_03	ng/L	0.0968	0.172
			43	70424-67-8 60145-21-3	NEA 207_03	ng/L	0.152	25.0
			44	41464-49-7 73575-53-8 39485-83-1	NEA 207_03	ng/L	0.0225	0.0402

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		45	74472-34-7	NEA 207_03	ng/L	0.0299	0.0384
		46	32690-93-0 73575-55-0 33284-53-6	NEA 207_03	ng/L	0.0821	0.347
		47	32598-11-1	NEA 207_03	ng/L	0.164	0.621
		48	32598-10-0 70362-48-0 60233-25-2 33284-52-5 73575-56-1 38379-99-6 68194-06-9 55215-17-3	NEA 207_03	ng/L	0.243	1.32
		49	74338-24-2 68194-05-8 56558-18-0	NEA 207_03	ng/L	0.0376	0.093
		50	41464-43-1 33025-41-1	NEA 207_03	ng/L	0.359	0.640
		51	52663-60-2 52663-61-3 33979-03-2	NEA 207_03	ng/L	0.0888	0.329
		52	73575-57-2	NEA 207_03	ng/L	0.0384	0.0384
		53	68194-07-0 37680-73-2	NEA 207_03	ng/L	0.0691	0.329
		54	41464-48-6 38380-01-7 68194-10-5	NEA 207_03	ng/L	0.101	0.135
		55	56558-17-9 68194-08-1	NEA 207_03	ng/L	0.00644	0.0102
		56	70362-49-1 60145-20-2 74472-36-9 70362-41-3	NEA 207_03	ng/L	0.0647	0.0647
		57	41464-51-1 68194-09-2 55312-69-1	NEA 207_03	ng/L	0.0435	0.102
		58	70362-50-4 38380-02-8 68194-11-06 74472-39-2 39635-32-0 74472-38-1 74472-40-5	NEA 207_03	ng/L	0.0841	0.212
		59	18259-05-7 65510-45-4	NEA 207_03	ng/L	0.0484	0.128
		60	68194-12-7 38411-22-2	NEA 207_03	ng/L	0.0772	0.137
		61	32598-13-3 38380-03-9 74472-41-6	NEA 207_03	ng/L	0.0668	0.389
		62	60145-22-4	NEA 207_03	ng/L	0.113	25.0
		63	52663-62-4	NEA 207_03	ng/L	0.0201	0.0804
		64	52663-63-5	NEA 207_03	ng/L	0.0518	0.311
		65	70424-70-3 52744-13-5	NEA 207_03	ng/L	0.0149	0.0530
		66	68194-14-9	NEA 207_03	ng/L	0.0541	0.110
		67	70424-68-9 74472-35-8 68194-13-8	NEA 207_03	ng/L	0.0348	0.0475
		68	65510-44-3	NEA 207_03	ng/L	0.125	25.0
		69	70424-69-0 31508-00-6 56030-56-9 38380-04-0	NEA 207_03	ng/L	0.0938	0.731
		70	59291-64-4	NEA 207_03	ng/L	0.0829	25.0
		71	74472-37-0 52704-70-8 68194-15-0	NEA 207_03	ng/L	0.0348	0.0369
		72	76842-07-4 61798-70-7 35694-04-3 41411-61-4	NEA 207_03	ng/L	0.00638	0.0106
		73	51908-16-8 74472-46-1 74487-85-7	NEA 207_03	ng/L	0.0320	0.0713
		74	32598-14-4 38380-05-1 74472-43-8	NEA 207_03	ng/L	0.0721	0.248

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		75	35065-27-1	NEA 207_03	ng/L	0.109	0.538
		76	39635-33-1 59291-65-5 74472-48-3	NEA 207_03	ng/L	0.107	25.0
		77	52712-04-6	NEA 207_03	ng/L	0.064	0.311
		78	52663-64-6	NEA 207_03	ng/L	0.0470	0.267
		79	35694-06-5	NEA 207_03	ng/L	0.0501	0.0501
		80	52663-66-8 52663-65-7	NEA 207_03	ng/L	0.0151	0.0475
		82	35065-28-2 74472-44-9 74472-45-0	NEA 207_03	ng/L	0.108	0.493
		83	74472-42-7 41411-62-5 74472-49-4	NEA 207_03	ng/L	0.0450	0.0457
		84	57465-28-8 55215-18-4	NEA 207_03	ng/L	0.00310	0.00473
		85	41411-63-6 52663-67-9	NEA 207_03	ng/L	0.0677	0.201
		87	40186-70-7 39635-35-3	NEA 207_03	ng/L	0.0156	0.0731
		88	60145-23-5 52663-68-0	NEA 207_03	ng/L	0.102	0.658
		89	38380-07-3 39635-34-2	NEA 207_03	ng/L	0.0199	0.0366
		90	52663-69-1	NEA 207_03	ng/L	0.0679	0.311
		91	52663-72-6	NEA 207_03	ng/L	0.0348	0.0348
		92	52712-05-7	NEA 207_03	ng/L	0.0225	0.0859
		93	38411-25-5 74472-47-2	NEA 207_03	ng/L	0.102	0.585
		94	52663-70-4	NEA 207_03	ng/L	0.0936	0.311
		95	38380-08-4 52663-71-5	NEA 207_03	ng/L	0.0871	0.144
		96	69782-90-7 2136-99-4	NEA 207_03	ng/L	0.00942	0.0121
		98	68194-16-1	NEA 207_03	ng/L	0.0133	0.0139
		99	40186-71-8	NEA 207_03	ng/L	0.0863	0.0863
		100	52663-74-8 74472-52-9	NEA 207_03	ng/L	0.127	0.127
		101	74472-51-8 33091-17-7	NEA 207_03	ng/L	0.217	0.217
		102	35065-29-3	NEA 207_03	ng/L	0.150	1.11
		103	69782-91-8	NEA 207_03	ng/L	0.0640	0.0768
		104	74472-50-7	NEA 207_03	ng/L	0.0374	0.0438
		105	52663-73-7 32774-16-6	NEA 207_03	ng/L	0.0460	0.0786
		106	35065-30-6	NEA 207_03	ng/L	0.0538	0.234
		107	41411-64-7	NEA 207_03	ng/L	0.0213	0.0768
		108	68194-17-2	NEA 207_03	ng/L	0.0324	0.0438
		109	52663-75-9	NEA 207_03	ng/L	0.116	0.768
		110	42740-50-1 52663-76-0	NEA 207_03	ng/L	0.184	0.786
		111	39635-31-9	NEA 207_03	ng/L	0.0231	0.0231
		112	52663-78-2	NEA 207_03	ng/L	0.0368	0.101
		113	52663-77-1	NEA 207_03	ng/L	0.0438	0.0902
		114 (surrogate)	52663-79-3	NEA 207_03	ng/L	0.0154	0.0340
		115	35694-08-7	NEA 207_03	ng/L	0.0969	0.329
		116	74472-53-0	NEA 207_03	ng/L	0.0838	0.084
		117	40186-72-9	NEA 207_03	ng/L	0.0384	0.124
		118	2051-24-3	NEA 207_03	ng/L	0.0126	0.0126

Note:

\*\* - Peak 114 corresponds to IUPAC 207, which is the surrogate.

PCB SAMPLE DATA SUMMARY PACKAGE FOR:

ANCHOR QUANTITATIVE ENVIRONMENTAL ANALYSIS, LLC  
305 WEST GRAND AVENUE  
MONTVALE, NEW JERSEY 07645

TOTAL PCB: GREEN BAY METHOD (NE207\_03.DOC)

DATE: September 4, 2009-C

LRF: 09090045

PROVIDED BY : NORTHEAST ANALYTICAL, INC.  
2190 TECHNOLOGY DRIVE  
SCHENECTADY, NEW YORK 12308  
518-346-4592



TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
CASE NARRATIVE .....	4
SAMPLE CHAIN OF CUSTODY .....	6
INTERNAL SAMPLE TRACKING RECORD .....	8
SURROGATE RECOVERY SUMMARY .....	11
LABORATORY CONTROL SPIKE SUMMARY .....	19
METHOD BLANK SUMMARY .....	21
SAMPLE ANALYSIS DATA .....	23
SAMPLE GC INJECTION LOG.....	58
STANDARDS SUMMARY TABLES .....	64
CALIBRATION COMPONENT SUMMARY TABLES .....	115
STANDARDS RAW DATA .....	119
QC SAMPLE RAW DATA .....	164
MDL STUDIES .....	184

# Case Narrative

September 23, 2009

CASE NARRATIVE

This data package (NEA SDG ID: 09090045) consists of 2 water samples received on 09/03/2009. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AM15406	WFF-WAFA-090903-CT001	09/03/2009 08:39
AM15407	WFF-WAFO-090903-CT001	09/03/2009 10:30

Sample Delivery and Receipt Conditions

- (1.) Northeast Analytical provided sample pickup service on 09/03/2009.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 2.1 degrees Celsius. Please see Chain of Custody for details.

Total PCBs by Green Bay Method (1L)

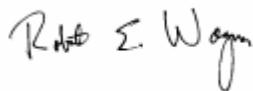
Analysis for Total PCBs was performed by NEA SOP NE207\_03. Samples were extracted by USEPA SW-846 Method 3535 Solid Phase Extraction. One-liter water samples were extracted by NEA SOP NE178\_03. The following technical and administrative items were noted for the analysis:

- (1.) Note: Hudson River Bias Correction applied (v09/23/2004) to GC Column peaks 5, 8, and 14 (which are comprised of congeners IUPAC 4 and 10; IUPAC 5 and 8; and IUPAC 15 and 18, respectively). Please see SOP NE207\_03 for details.
- (2.) Peak 14, Peak 16, Peak 20, Peak 21, Peak 22, Peak 27, Peak 44, Peak 5, Peak 57, Peak 59, Peak 61, and Peak 66 were observed in the Method Blank sample. All associated positive sample concentration results have been flagged (B) to denote the observed contamination.
- (3.) Sample(s) WFF-WAFA-090903-CT001(NEA ID: AM15406) and WFF-WAFO-090903-CT001 (NEA ID: AM15407) required additional analysis at a dilution for Peak 5 and Peak 10 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a NEA ID suffix of DL1. The concentration for Peak 5 and Peak 10 are included in the original analysis to provide the correct PCB total concentration.
- (4.) The closing calibration check standard failed for the original analysis for the 2 samples. The samples and sample dilutions were re-analyzed and are in this data summary package with a NEA ID suffix of RR1 for the samples and DL1RR1 for the dilutions.

Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the PQL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



Robert E. Wagner  
Laboratory Director & Founder

# Sample Chain Of Custody



365 West Grand Avenue Monroeville, NJ 07045 Ph: 201-930-9890

Client: General Electric Company

### ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC090903-CNEA-01

Sample Custodian: KMB

Lab: NEA

COC Sample Number	Field Sample ID	QA/QC	MS	MSD	LD	Matrix **	Date Collected	Time Collected	Media*	# Containers	4degC									
											CS POBs NE207_03									
001	WFF-WAFA-090903-CT001	ENV	N	N	N	W	09/03/2009	08:39	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
002	WFF-WAFO-090903-CT001	ENV	N	N	N	W	09/03/2009	10:30	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>								

AM15406  
AM15407

Comments:						
Temp → 2.1°C						
Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:	Received by:
Signature: <i>[Signature]</i>						
Print Name: Kevin Ballon	Print Name: M. RANUCCI	Print Name: M. RANUCCI	Print Name: A. MOORE	Print Name:	Print Name:	Print Name:
Company: AQEA	Company: NEA	Company: NEA	Company: NEA	Company:	Company:	Company:
Date/Time: 9/3/09	Date/Time: 9/3-09 15:55	Date/Time: 9-3-09 16:50	Date/Time: 9/3/09 16:50	Date/Time:	Date/Time:	Date/Time:

Date Printed: 9/3/2009

\* S= SEDIMENT, W= WATER \*\* T = Total, D = Dissolved, R = Residue  
\*\*\* Air Tight Container; preserved at lab if not analyzed within 48 hrs.

Page 1 of 1

# Internal Sample Tracking Record

CONGENER AQUEOUS EXTRACTION LOG



Prep Date: 09/03/09

Batch ID: 9182

Initial for required Clean Up Steps

	Prep ID	NEA Sample ID	Alt Sample ID	Client	Extraction Type	Matrix	Sample Amount (g or mL)	TS %	Final Ext. Vol (mL)	Date Ext (MM/DD)	Extract Time On	Extract Time Off	Date Conc (MM/DD)	TJL	TJL	TJL	Cell / Unit #	Job	pH	Comments	
														Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)					Date Hg Shake (MM/DD)
1	89417	CEBLK-30	AM15338B	GE	SPE-1L	Water	1000	N/A	5	09/03	NA	NA	09/03	09/03	NA	09/03	09/03	L7	E CON1L	5	
2	89418	LCS-30	AM15338L	GE	SPE-1L	Water	1000	N/A	5	09/03	NA	NA	09/03	09/03	NA	09/03	09/03	L8	E CON1L	5	
3	89474	09090045-01	AM15406	GE	SPE-1L	Water	1030	100	5	09/03	NA	NA	09/03	09/03	NA	09/03	09/03	L4	E CON1L	5	
4	89475	09090045-02	AM15407	GE	SPE-1L	Water	980	100	5	09/03	NA	NA	09/03	09/03	NA	09/03	09/03	L5	E CON1L	5	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	E49039	NA		b	b	..	b	..	..	..
Aroclor 1242 @ 1.00PPM in Acetone (cu)	041409B27P21C	200	1.0	..	b	..	..	..	..	..
Nona @ 0.2ppm in Acetone (current)	042309B27P38A1-10	500	0.2	b	b	..	b	..	..	..
Acetone (current)	CZ366	NA		b	b	..	b	..	..	..
Dichloromethane (current)	CZ377	NA		b	b	..	b	..	..	..
Hexane	CZ440	NA		b	b	..	b	..	..	..
10% Florisil (CSGB only)current	090618F	NA		b	b	..	b	..	..	..
Methanol (current)	49107	NA		b	b	..	b	..	..	..
Speedisk (current)	H25N14	NA		b	b	..	b	..	..	..
Mercury(current)	080314	NA		b	b	..	b	..	..	..
1:1 Sulfuric Acid (SPE only)current	090729A	NA		b	b	..	b	..	..	..

SPIKED BY: Tara Snay

WITNESSED BY: Heather Gansky

SIGNATURE: *T Snay*

SIGNATURE: *H Gansky*  
09090045

# CONGENER AQUEOUS SCREEN SHEET

Batch ID: 9182

Prepared by: Kelly Ryan

NEA Sample ID	Alt Sample ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Dilution Sequence	Final Multiplier
CEBLK-30	AM15338B	Water	09/03/09	1000	5	NA		N/A	52
LCS-30	AM15338L	Water	09/03/09	1000	5	NA		N/A	52
09090045-01	AM15406	Water	09/03/09	1030	5	NA		N/A 1-10	52/102
09090045-02	AM15407	Water	09/03/09	980	5	NA		N/A 1-10	52/102

Solvent, Surrogate, Spike, and Acid Information      B=Blank, L=Lab Control Spike, LD=Lab Control Spike Duplicate, S=Sample, D=Duplicate, M=Matrix Spike, K=Matrix Spike Duplicate

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone (cur	041409B27P21C	200	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone (current)	042309B27P38A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (current)	CZ366	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane (current)	CZ377	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane	CZ440	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (CSGB only)current	090618F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol (current)	49107	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk (current)	H25N14	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury(current)	080314	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only)current	090729A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9/5/09

COMMENTS: \_\_\_\_\_

# Surrogate % Recovery Summary

## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Lab Name: Northeast Analytical, Inc.

SDG No: 09090045

ELAP ID No: 11078

Init. Calib. Date(s): 08/23/2009

GC Column (1): Agilent DB-1; 30 meter; 0.25 micron phase thickness

Instrument ID: GC16

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS:							
IUPAC 207: <u>40.98</u>							
#	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)
01	ICAL 6.25 ng/mL	ICAL0823A	GC16-769-3	08/23/2009 04:27:16			
02	ICAL 12.5 ng/mL	ICAL0823B	GC16-769-4	08/23/2009 05:34:46			
03	ICAL 125 ng/mL	ICAL0823C	GC16-769-5	08/23/2009 06:42:13			
04	ICAL 314 ng/mL	ICAL0823D	GC16-769-6	08/23/2009 07:49:33			
05	ICAL 627 ng/mL	ICAL0823E	GC16-769-7	08/23/2009 08:56:52			
06	SUP CONG STD 200/5 ng/mL	SC0823A	GC16-769-9	08/23/2009 11:11:32			
07	Surr Std (207) 2.0 ng/mL	SS0823A	GC16-769-10	08/23/2009 12:18:49			
08	Surr Std (207) 20.0 ng/mL	SS0823B	GC16-769-11	08/23/2009 13:26:05			
09	Surr TCMX/DCBP 5/50 ppb	TD0823A	GC16-769-12	08/23/2009 14:33:23			
10	HEXANE BLANK	090903B02	GC16-781-2	09/03/2009 09:57:32			
11	CCC Std 122 ng/mL	CCCS0903A	GC16-781-3	09/03/2009 11:04:51			
12	CEBLK-30(METHOD BLANK)	AM15338B	GC16-781-4	09/03/2009 12:39:55	40.96	-0.02	91.7
13	LCS-30(LAB CONTROL SPIKE)	AM15338L	GC16-781-5	09/03/2009 13:47:09	40.97	-0.01	95.1
14	CCC Std 122 ng/mL	CCCS0903B	GC16-781-10	09/03/2009 19:23:48			
15	HEXANE BLANK	090905B02	GC16-783-2	09/05/2009 10:52:07			
16	CCC Std 122 ng/mL	CCCS0905A	GC16-783-3	09/05/2009 11:59:33			
17	WFF-WAFA-090903-CT001	AM15406RR1	GC16-783-6	09/05/2009 16:15:51	40.96	-0.02	90.8
18	WFF-WAFA-090903-CT001	AM15406DL1RR1	GC16-783-7	09/05/2009 17:23:11	40.95	-0.03	101
19	WFF-WAFO-090903-CT001	AM15407RR1	GC16-783-8	09/05/2009 18:30:33	40.97	-0.01	89.6
20	WFF-WAFO-090903-CT001	AM15407DL1RR1	GC16-783-9	09/05/2009 20:45:11	40.95	-0.03	103
21	CCC Std 122 ng/mL	CCCS0905B	GC16-783-10	09/05/2009 21:52:24			



---

Sample Name:	AM15338B	Sample Amount:	1.000 L
Sample ID:	METHOD BLANK	Dilution:	5
Date Acquired:	09/03/2009 12:39:55	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	09/03/2009 21:19:12
Sample Set Name:	GC16_090309A	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_082309	Current Time:	00:48:24
Run Time:	60 Minutes	Current Date:	09/06/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-781-4

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.96	171105	18.343	91.7
2	I.S. (OCN)	47.01	161875	3.636	



---

Sample Name:	AM15338L	Sample Amount:	1.000 L
Sample ID:	LAB CONTROL SPIKE	Dilution:	5
Date Acquired:	09/03/2009 13:47:09	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	09/03/2009 21:20:22
Sample Set Name:	GC16_090309A	User Name:	Amy Jo Arndt
Processing Method:	CSGB_LL1X_082309	Current Time:	00:48:24
Run Time:	60 Minutes	Current Date:	09/06/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-781-5

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.97	165650	19.029	95.1
2	I.S. (OCN)	47.00	151064	3.636	



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, New York 12308

Phone:(518) 346-4592 Fax:(518) 381-6055

www.nealab.com

---

Sample Name:	AM15406RR1	Sample Amount:	1.030 L
Sample ID:	WFF-WAFA-090903-CT001	Dilution:	5
Date Acquired:	09/05/2009 16:15:51	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	09/06/2009 00:04:31
Sample Set Name:	GC16_090509A	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_082309	Current Time:	00:48:24
Run Time:	60 Minutes	Current Date:	09/06/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-783-6

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.96	175067	18.151	90.8
2	I.S. (OCN)	46.99	167379	3.745	



---

Sample Name:	AM15406DL1RR1	Sample Amount:	1.030 L
Sample ID:	WFF-WAFA-090903-CT001	Dilution:	50
Date Acquired:	09/05/2009 17:23:11	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	09/06/2009 00:04:36
Sample Set Name:	GC16_090509A	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_082309	Current Time:	00:48:25
Run Time:	60 Minutes	Current Date:	09/06/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-783-7

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.95	18934	2.019	101
2	I.S. (OCN)	46.99	162744	0.375	



---

Sample Name:	AM15407RR1	Sample Amount:	0.980 L
Sample ID:	WFF-WAFO-090903-CT001	Dilution:	5
Date Acquired:	09/05/2009 18:30:33	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	09/06/2009 00:04:42
Sample Set Name:	GC16_090509A	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_082309	Current Time:	00:48:25
Run Time:	60 Minutes	Current Date:	09/06/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-783-8

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.97	178164	17.926	89.6
2	I.S. (OCN)	47.01	172479	3.563	



---

Sample Name:	AM15407DL1RR1	Sample Amount:	0.980 L
Sample ID:	WFF-WAFO-090903-CT001	Dilution:	50
Date Acquired:	09/05/2009 20:45:11	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	09/06/2009 00:04:46
Sample Set Name:	GC16_090509A	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_082309	Current Time:	00:48:25
Run Time:	60 Minutes	Current Date:	09/06/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-783-9

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.95	21916	2.058	103
2	I.S. (OCN)	47.00	184780	0.356	

# Laboratory Control Spike Summary

## PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Northeast Analytical, Inc.

ELAP ID No: 11078

SDG No: 09090045

LCS ID: LCS-30

Blank Sample ID: CEBLK-30

LCS File ID: GC16-781-5

Method Blank File ID: GC16-781-4

LCS Inj Date: 09/03/2009 13:47:09

Method Blank Inj Date: 09/03/2009 12:39:55

LCS NEA ID No: AM15338L

Method Blank NEA ID No: AM15338B

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS PERCENT RECOVERY		QC LIMITS PERCENT RECOVERY
				#	
Total PCBs	200	231	116		60.0-140

# Column to be used to flag recovery values.

\* Value outside of QC limits.

Comments: \_\_\_\_\_  
\_\_\_\_\_

# Method Blank Summary

**PCB METHOD BLANK SUMMARY**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09090045</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>CEBLK-30</u>
Matrix:	<u>ORGANIC FREE WATER</u>	Client ID:	<u>CEBLK-30(METHOD BLANK)</u>
Sample Wt(Dry)/Vol:	<u>1000 mL</u>	Lab Sample ID:	<u>AM15338B</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC16-781-4</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>09/03/2009</u>
Injection Volume:	<u>0.5 uL</u>	Date/Time Analyzed:	<u>09/03/2009 12:39</u>
Analytical SOP Reference:	<u>SOP NE207_03.DOC</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>Agilent DB-1; 30 meter; 0.25 micron phase thickness</u>		

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

# Sample Analysis Data

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09090045
ELAP ID No:	11078	LRF ID:	09090045-01RR1
Matrix:	Water	Client ID:	WFF-WAFA-090903-CT001
Sample Wt(Dry)/Vol:	1030 mL	Lab Sample ID:	AM15406RR1
% Moisture:	100	Lab File ID:	GC16-783-6
Extraction:	Solid Phase Extraction - 1L	Date Received:	09/03/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	09/03/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	09/05/2009 16:15
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 167379

Percent Recovery (50 - 150 %): 100

SAMPLE TOTAL PCB CONCENTRATION: 137 ng/L

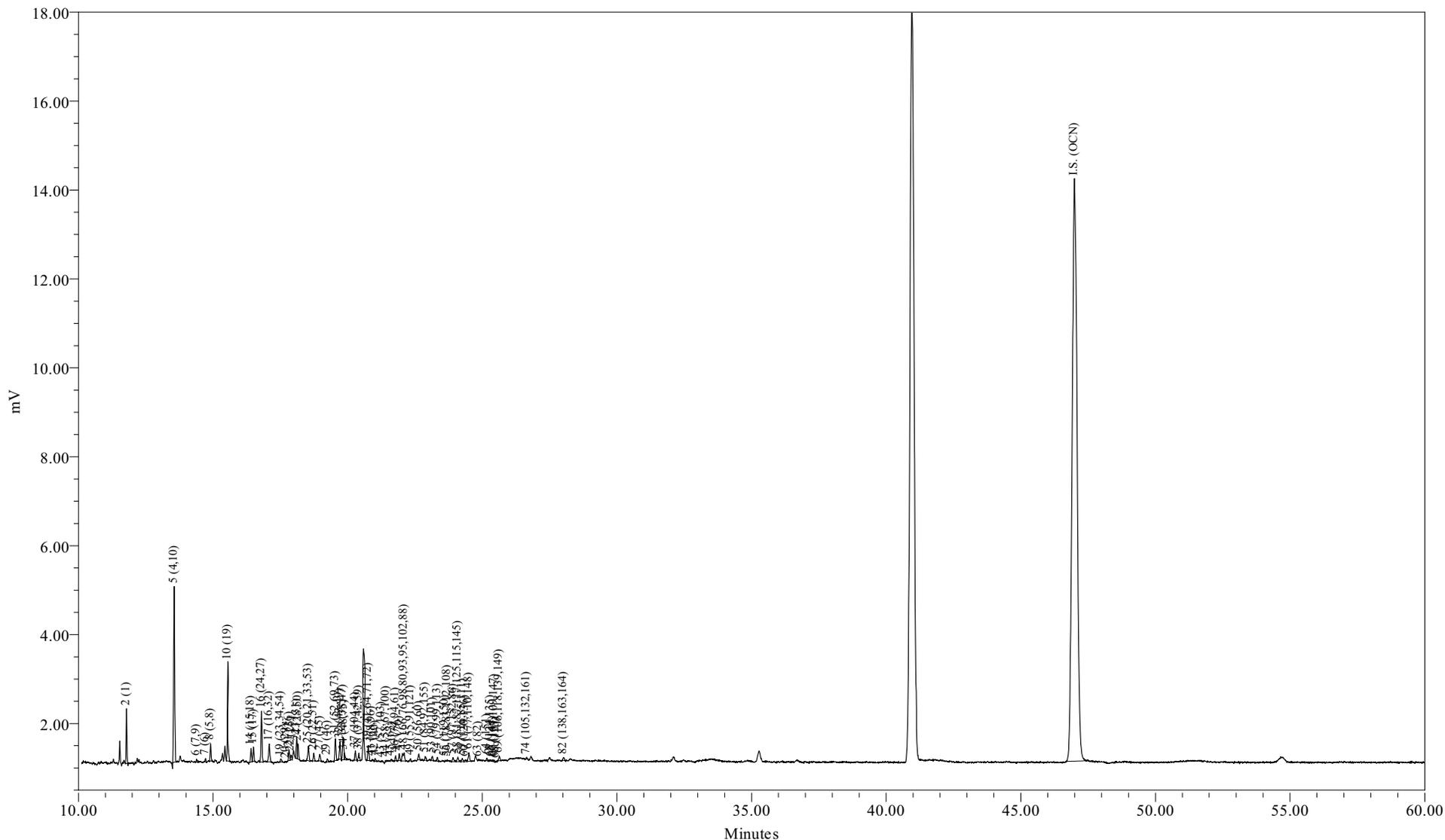
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: AM15406RR1  
Sample ID: WFF-WAFA-090903-CT001  
Date Acquired: 09/05/2009 16:15:51 EDT

Sample Amount (L) : 1.0300  
Dilution: 5  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-783-6

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090903-CT001  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 16:15:51  
 Lab Sample ID: AM15406RR1  
 LRF ID: 09090045-01RR1  
 Lab File ID: GC16-783-6

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 137 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	29.62	34.51
Di	47.75	47.04
Tri	15.37	13.13
Tetra	5.30	4.01
Penta	1.71	1.15
Hexa	0.25	0.16
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	40.7033	94.4	95.1
A1242	23+24/31+28	1.9077	4.42	4.46
A1254SED	61/100	0.5243	1.22	
A1254BIO	69+75+82/149+153+138	0.1949		0.455
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.66

Meta + Para Cl / biphenyl Residue = 0.25

Total Cl / biphenyl Residue = 1.91

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090903-CT001  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 16:15:51  
 Lab Sample ID: AM15406RR1  
 LRF ID: 09090045-01RR1  
 Lab File ID: GC16-783-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7	2204	40.7	216	0.529	2.19	
3	12.83	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.57	223.1	1167	63.4	284	1.34	6.21	B
6	14.39	223.1	122	0.183	0.821	0.0721	0.219	J
7	14.72	223.1	156	0.253	1.13	0.158	0.347	J
8	14.91	223.1	886	1.42	6.38	0.542	2.56	J
9	15.48	223.1				0.294	25.0	U
10	15.55	257.5	547	8.12	31.5	0.604	1.02	
11	16.03	257.5				0.198	25.0	U
12	16.09	223.1				0.306	25.0	U
13	16.29	223.1				0.0559	0.0975	U
14	16.41	249.0	800	1.38	5.53	0.128	0.676	B
15	16.50	257.5	790	2.30	8.92	0.143	0.676	
16	16.80	257.5	2979	2.82	10.9	0.0374	0.0475	B
17	17.09	257.5	1194	1.89	7.34	0.166	0.713	
19	17.52	267.9	197	0.261	0.975	0.128	25.0	J
20	17.71	257.5	15	0.0126	0.0491	0.0108	0.0194	JB
21	17.83	257.5	617	0.768	2.98	0.0606	0.132	B
22	17.90	257.5	312	0.248	0.962	0.0426	0.0585	B
23	18.11	257.5	1229	1.12	4.35	0.487	0.753	
24	18.16	257.5	938	0.786	3.05	0.211	0.964	J
25	18.54	259.5	1007	1.08	4.15	0.105	0.726	
26	18.74	258.7	431	0.520	2.01	0.120	0.530	J
27	18.97	292.0	447	0.471	1.61	0.0367	0.163	B
28	19.12	257.5				0.375	25.0	U
29	19.24	292.0	183	0.198	0.677	0.127	0.127	
30	19.39	257.5				0.120	25.0	U
31	19.55	292.0	1285	1.86	6.37	0.204	0.872	
32	19.72	292.0	1027	0.769	2.63	0.0978	0.420	
33	19.83	292.0	1574	0.782	2.68	0.0656	0.183	
34	19.88	292.0	336	0.209	0.715	0.0579	0.183	
35	20.04	292.0				0.205	25.0	U
36	20.13	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0	544	0.442	1.51	0.160	0.786	J
38	20.41	272.4	516	0.586	2.15	0.115	0.475	
39	20.77	292.0	1067	0.726	2.49	0.121	0.749	J
41	20.91	326.4	60			0.115	25.0	U
42	21.02	292.0	149	0.164	0.563	0.0968	0.172	J
43	21.26	298.9	55			0.152	25.0	U
44	21.43	298.9	43	0.0343	0.115	0.0225	0.0402	JB
45	21.62	292.0	94	0.0568	0.194	0.0299	0.0384	
46	21.78	292.0	272	0.153	0.525	0.0821	0.347	J
47	21.92	292.0	427	0.228	0.782	0.164	0.621	J
48	22.10	293.5	1009	0.816	2.78	0.243	1.32	J
49	22.34	324.7	137	0.120	0.370	0.0376	0.0932	
50	22.65	292.0	371			0.359	0.640	U
51	22.88	326.4	259	0.440	1.35	0.0888	0.329	
52	22.98	326.4				0.0384	0.0384	U
53	23.15	326.4	270	0.239	0.731	0.0691	0.329	J
54	23.34	326.4	246	0.129	0.396	0.101	0.135	J
55	23.62	326.4	31	0.00830	0.0254	0.00644	0.0102	J
56	23.71	326.4	32			0.0647	0.0647	U
57	23.91	326.4	364	0.211	0.648	0.0435	0.102	B
58	24.10	326.4	428	0.291	0.892	0.0841	0.212	
59	24.25	326.4	238	0.150	0.459	0.0484	0.128	B
60	24.37	360.9	142	0.109	0.303	0.0772	0.137	J
61	24.50	326.4	647	0.524	1.61	0.0668	0.389	B
62	24.79	360.9				0.113	25.0	U
63	24.85	326.4	96	0.0354	0.109	0.0201	0.0804	J
64	25.17	360.9	138	0.0624	0.173	0.0518	0.311	J
65	25.31	350.5	89	0.0247	0.0705	0.0149	0.0530	J
66	25.40	360.9	76	0.0838	0.232	0.0541	0.110	JB
67	25.45	336.8	101	0.0760	0.226	0.0348	0.0475	
68	25.51	326.4	18			0.125	25.0	U
69	25.63	337.5	363	0.159	0.471	0.0938	0.731	J
70	25.74	360.9				0.0829	25.0	U
71	26.04	347.8				0.0348	0.0369	U
72	26.23	336.8				0.00638	0.0106	U
73	26.52	360.9				0.0320	0.0713	U
74	26.65	347.8	103			0.0721	0.248	U
75	26.82	360.9				0.109	0.538	U
76	26.93	360.9				0.107	25.0	U
77	27.35	360.9				0.0637	0.311	U
78	27.42	395.3				0.0470	0.267	U
79	27.65	360.9				0.0501	0.0501	U
80	27.80	360.9				0.0151	0.0475	U
82	28.02	360.9	217			0.108	0.493	U
83	28.21	360.9				0.0450	0.0457	U
84	28.42	360.9				0.00310	0.00473	U
85	28.77	395.3				0.0677	0.201	U
87	29.08	395.3				0.0156	0.0731	U
88	29.22	395.3				0.102	0.658	U
89	29.35	360.9				0.0199	0.0366	U
90	29.53	395.3				0.0679	0.311	U
91	29.83	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.0225	0.0859	U
93	30.53	394.3				0.102	0.585	U
94	30.81	394.3				0.0936	0.311	U
95	31.11	382.2				0.0871	0.144	U
96	31.38	429.8				0.00942	0.0121	U
98	31.55	395.3				0.0133	0.0139	U
99	31.92	429.8				0.0863	0.0863	U
100	32.18	395.3				0.127	0.127	U
101	32.48	429.8				0.217	0.217	U
102	32.67	395.3				0.150	1.11	U
103	32.92	395.3				0.0640	0.0768	U
104	33.23	395.3				0.0374	0.0438	U
105	33.58	429.8				0.0460	0.0786	U
106	34.76	395.3				0.0538	0.234	U
107	35.04	395.3				0.0213	0.0768	U
108	35.92	429.8				0.0324	0.0438	U
109	36.16	429.8				0.116	0.768	U
110	36.71	429.8				0.184	0.786	U
111	37.90	395.3				0.0231	0.0231	U
112	39.49	429.8				0.0368	0.101	U
113	40.01	464.2				0.0438	0.0903	U
114	40.97	464.2				0.0154	0.0340	U
115	42.42	429.8				0.0969	0.329	U
116	43.32	429.8				0.0838	0.0838	U
117	48.57	464.2				0.0384	0.124	U
118	54.73	498.6				0.0126	0.0126	U

Total Concentration = 137 ng/L

10.8

38.7

Total Nanomoles = 0.625

Average Molecular Weight = 219.9

Number of Calibrated Peaks Found = 56

Internal Standard Retention Time = 46.99 minutes

Internal Standard Peak Area = 167379.0

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090903-CT001  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 16:15:51  
 Lab Sample ID: AM15406RR1  
 LRF ID: 09090045-01RR1  
 Lab File ID: GC16-783-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	29.615	34.514
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.57	2:2	004 010	0.2888	2-2; 26	46.146	45.487
6	14.39	2:1	007 009	0.3062	24; 25	0.133	0.131
7	14.72	2:1	006	0.3133	2-3	0.184	0.181
8	14.91	2:1	005 008	0.3173	23; 2-4	1.035	1.020
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	5.910	5.047
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013		34; 3-4	-	-
14	16.41	2:0 3:2	015 018	0.3492	4-4; 25-2	1.001	0.884
15	16.50	3:2	017	0.3511	24-2	1.670	1.426
16	16.80	3:2	024 027	0.3575	236; 26-3	2.049	1.750
17	17.09	3:2	016 032	0.3637	23-2; 26-4	1.375	1.175
19	17.52	3:1 4:4	023 034 054	0.3728	235; 35-2; 26-26	0.190	0.156
20	17.71	3:1	029	0.3769	245	0.009	0.008
21	17.83	3:1	026	0.3794	25-3	0.559	0.477
22	17.90	3:1	025	0.3809	24-3	0.180	0.154
23	18.11	3:1	031	0.3854	25-4	0.816	0.697
24	18.16	3:1 4:3	028 050	0.3865	24-4; 246-2	0.572	0.489
25	18.54	3:1 4:3	020 021 033 053	0.3946	23-3; 234; 34-2; 25-26	0.783	0.664
26	18.74	3:1 4:3	022 051	0.3988	23-4; 24-26	0.378	0.322
27	18.97	4:3	045	0.4037	236-2	0.343	0.258
28	19.12	3:0	036		35-3	-	-
29	19.24	4:3	046	0.4094	23-26	0.144	0.108
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	1.354	1.020
32	19.72	4:2	043 049	0.4197	235-2; 24-25	0.559	0.421
33	19.83	4:2	038 047	0.4220	345; 24-24	0.569	0.428
34	19.88	4:2	048 075	0.4231	245-2; 246-4	0.152	0.114
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044	0.4318	246-26; 23-25	0.321	0.242
38	20.41	3:0 4:2	037 042 059	0.4343	34-4; 23-24; 236-3	0.426	0.344
39	20.77	4:2	041 064 071 072	0.4420	234-2; 236-4; 26-34; 25-35	0.528	0.398

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.91	5:4	068 096		24-35; 236-26	-	-
42	21.02	4:2	040	0.4473	23-23	0.120	0.090
43	21.26	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.43	4:1 5:3	058 067 100	0.4561	23-35; 245-3; 246-24	0.025	0.018
45	21.62	4:1	063	0.4601	235-4	0.041	0.031
46	21.78	4:1 5:3	074 094 061	0.4635	245-4; 235-26; 2345	0.112	0.084
47	21.92	4:1	070	0.4665	25-34	0.166	0.125
48	22.10	4:1 5:3	066 076 098 080 093 095 102 088	0.4703	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.594	0.445
49	22.34	4:1 5:3	055 091 121	0.4754	234-3; 236-24; 246-35	0.087	0.059
50	22.65	4:1	056 060		23-34; 234-4	-	-
51	22.88	5:3 6:4	084 092 155	0.4869	236-23; 235-25; 246-246	0.320	0.216
52	22.98	5:3	089		234-26	-	-
53	23.15	5:2	090 101	0.4927	235-24; 245-25	0.174	0.117
54	23.34	5:2	079 099 113	0.4967	34-35; 245-24; 236-35	0.094	0.063
55	23.62	5:2 6:4	119 150	0.5027	246-34; 236-246	0.006	0.004
56	23.71	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.91	5:2 6:4	097 152 086	0.5088	245-23; 2356-26; 2345-2	0.154	0.104
58	24.10	5:2	081 087 117 125 115 145	0.5129	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.212	0.143
59	24.25	5:2	116 085 111	0.5161	23456; 234-24; 235-35	0.109	0.073
60	24.37	6:4	120 136	0.5186	245-35; 236-236	0.080	0.049
61	24.50	5:2	077 110 148	0.5214	34-34; 236-34; 235-246	0.381	0.257
62	24.79	6:3	154		245-246	-	-
63	24.85	5:2	082	0.5288	234-23	0.026	0.017
64	25.17	6:3	151	0.5356	2356-25	0.045	0.028
65	25.31	5:1 6:3	124 135	0.5386	345-25; 235-236	0.018	0.011
66	25.40	6:3	144	0.5405	2346-25	0.061	0.037
67	25.45	5:1 6:3	107 109 147	0.5416	234-35; 235-34; 2356-24	0.055	0.036
68	25.51	5:1	123		345-24	-	-
69	25.63	5:1 6:3	106 118 139 149	0.5454	2345-3; 245-34; 2346-24; 236-245	0.116	0.075
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.65	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.82	6:2	153		245-245	-	-
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.80	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.02	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	126 129		345-34; 2345-23	-	-
85	28.77	7:3	166 178		23456-4; 2356-235	-	-
87	29.08	7:3	175 159		2346-235; 2345-35	-	-
88	29.22	7:3	182 187		2345-246; 2356-245	-	-
89	29.35	6:2	128 162		234-234; 235-345	-	-
90	29.53	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.15	7:3	185		23456-25	-	-
93	30.53	7:3	174 181		2345-236; 23456-24	-	-
94	30.81	7:3	177		2356-234	-	-
95	31.11	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.38	8:4	157 202		234-345; 2356-2356	-	-
98	31.55	7:3	173		23456-23	-	-
99	31.92	8:4	201		2346-2356	-	-
100	32.18	7:2	172 204		2345-235; 23456-246	-	-
101	32.48	8:4	192 197		23456-35; 2346-2346	-	-
102	32.67	7:2	180		2345-245	-	-
103	32.92	7:2	193		2356-345	-	-
104	33.23	7:2	191		2346-345	-	-
105	33.58	8:4	200 169		23456-236; 345-345	-	-
106	34.76	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 137 ng/L

Total Nanomoles = 0.625

Average Molecular Weight = 219.9

Number of Calibrated Peaks Found = 56

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

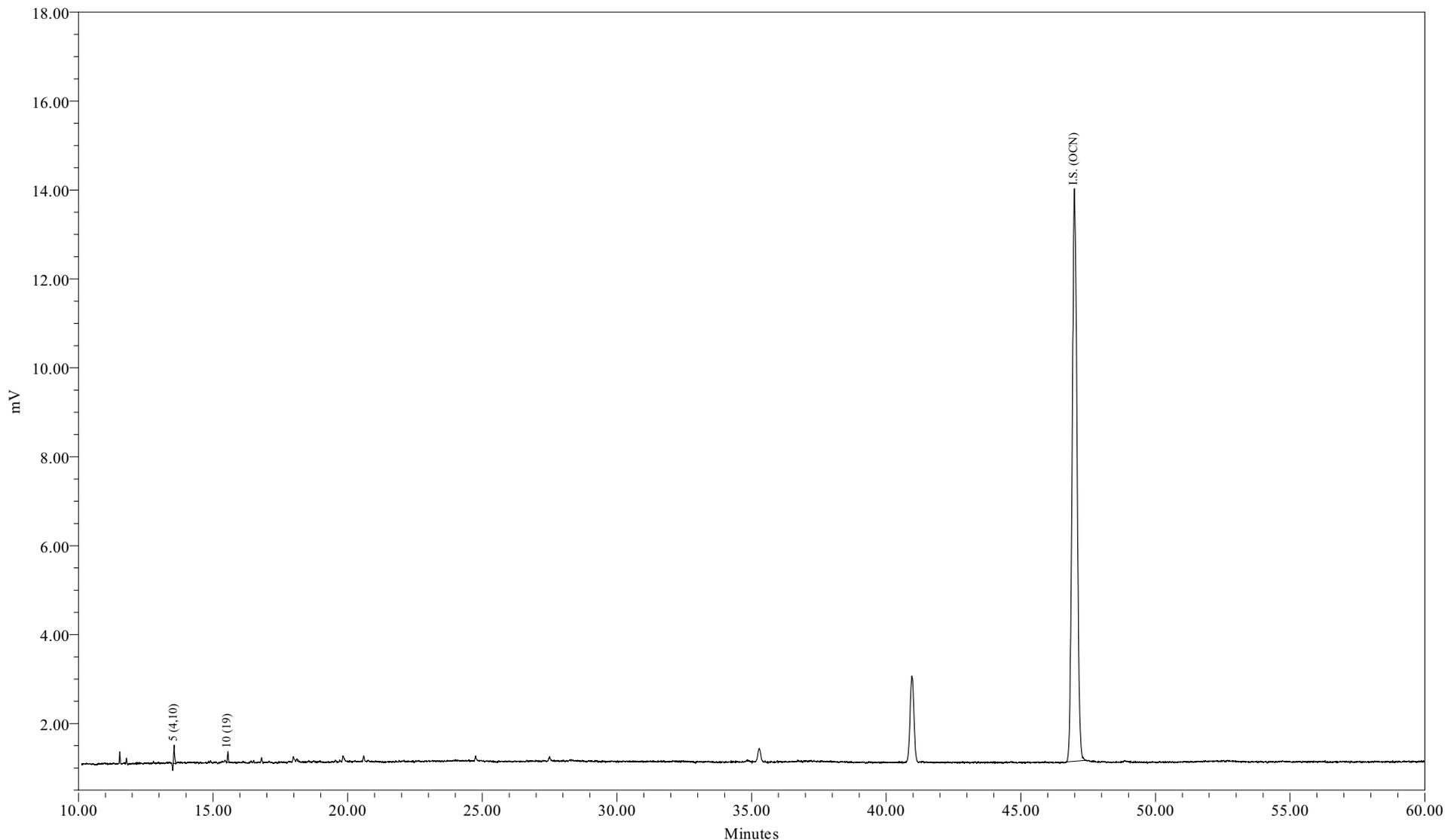
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM15406DL1RR1  
Sample ID: WFF-WAFA-090903-CT001  
Date Acquired: 09/05/2009 17:23:11 EDT

Sample Amount (L) : 1.0300  
Dilution: 50  
Processing Method: CSG\_B\_LL1X\_082309  
LIMS File ID: GC16-783-7

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090903-CT001  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 17:23:11  
 Lab Sample ID: AM15406DL1RR1  
 LRF ID: 09090045-01DL1RR1  
 Lab File ID: GC16-783-7

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 71.5 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	88.65	90.01
Tri	11.35	9.99
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.10

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.10

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090903-CT001  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 17:23:11  
 Lab Sample ID: AM15406DL1RR1  
 LRF ID: 09090045-01DL1RR1  
 Lab File ID: GC16-783-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7				5.29	21.9	U
3	12.83	188.7				66.3	10000	U
4	12.93	188.7				3.55	12.8	U
5	13.57	223.1	1167	63.4	284	1.34	6.21	B
6	14.41	223.1				0.721	2.19	U
7	14.72	223.1				1.58	3.47	U
8	14.91	223.1				5.42	25.6	U
9	15.48	223.1				2.94	250	U
10	15.55	257.5	547	8.12	31.5	0.604	1.02	
11	16.03	257.5				1.98	250	U
12	16.09	223.1				3.06	250	U
13	16.29	223.1				0.559	0.975	U
14	16.42	249.0				1.28	6.76	U
15	16.51	257.5				1.43	6.76	U
16	16.81	257.5				0.374	0.475	U
17	17.08	257.5				1.66	7.13	U
19	17.53	267.9				1.28	250	U
20	17.71	257.5				0.108	0.194	U
21	17.83	257.5				0.606	1.32	U
22	17.92	257.5				0.426	0.585	U
23	18.11	257.5				4.87	7.53	U
24	18.16	257.5				2.11	9.64	U
25	18.52	259.5				1.05	7.26	U
26	18.75	258.7				1.20	5.30	U
27	18.98	292.0				0.367	1.63	U
28	19.12	257.5				3.75	250	U
29	19.25	292.0				1.27	1.27	U
30	19.39	257.5				1.20	250	U
31	19.55	292.0				2.04	8.72	U
32	19.72	292.0				0.978	4.20	U
33	19.84	292.0				0.656	1.83	U
34	19.90	292.0				0.579	1.83	U
35	20.04	292.0				2.05	250	U
36	20.13	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0				1.60	7.86	U
38	20.43	272.4				1.15	4.75	U
39	20.77	292.0				1.21	7.49	U
41	20.93	326.4				1.15	250	U
42	21.03	292.0				0.968	1.72	U
43	21.29	298.9				1.52	250	U
44	21.45	298.9				0.225	0.402	U
45	21.62	292.0				0.299	0.384	U
46	21.79	292.0				0.821	3.47	U
47	21.92	292.0				1.64	6.21	U
48	22.04	293.5				2.43	13.2	U
49	22.33	324.7				0.376	0.932	U
50	22.64	292.0				3.59	6.40	U
51	22.88	326.4				0.888	3.29	U
52	22.98	326.4				0.384	0.384	U
53	23.14	326.4				0.691	3.29	U
54	23.34	326.4				1.01	1.35	U
55	23.61	326.4				0.0644	0.102	U
56	23.71	326.4				0.647	0.647	U
57	23.93	326.4				0.435	1.02	U
58	24.10	326.4				0.841	2.12	U
59	24.26	326.4				0.484	1.28	U
60	24.38	360.9				0.772	1.37	U
61	24.51	326.4				0.668	3.89	U
62	24.79	360.9				1.13	250	U
63	24.87	326.4				0.201	0.804	U
64	25.17	360.9				0.518	3.11	U
65	25.30	350.5				0.149	0.530	U
66	25.37	360.9				0.541	1.10	U
67	25.44	336.8				0.348	0.475	U
68	25.53	326.4				1.25	250	U
69	25.62	337.5				0.938	7.31	U
70	25.74	360.9				0.829	250	U
71	26.04	347.8				0.348	0.369	U
72	26.23	336.8				0.0638	0.106	U
73	26.52	360.9				0.320	0.713	U
74	26.66	347.8				0.721	2.48	U
75	26.82	360.9				1.09	5.38	U
76	26.93	360.9				1.07	250	U
77	27.35	360.9				0.637	3.11	U
78	27.42	395.3				0.470	2.67	U
79	27.65	360.9				0.501	0.501	U
80	27.80	360.9				0.151	0.475	U
82	28.02	360.9				1.08	4.93	U
83	28.21	360.9				0.450	0.457	U
84	28.42	360.9				0.0310	0.0473	U
85	28.77	395.3				0.677	2.01	U
87	29.08	395.3				0.156	0.731	U
88	29.22	395.3				1.02	6.58	U
89	29.35	360.9				0.199	0.366	U
90	29.53	395.3				0.679	3.11	U
91	29.83	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.225	0.859	U
93	30.53	394.3				1.02	5.85	U
94	30.81	394.3				0.936	3.11	U
95	31.11	382.2				0.871	1.44	U
96	31.38	429.8				0.0942	0.121	U
98	31.55	395.3				0.133	0.139	U
99	31.92	429.8				0.863	0.863	U
100	32.18	395.3				1.27	1.27	U
101	32.48	429.8				2.17	2.17	U
102	32.67	395.3				1.50	11.1	U
103	32.92	395.3				0.640	0.768	U
104	33.23	395.3				0.374	0.438	U
105	33.58	429.8				0.460	0.786	U
106	34.76	395.3				0.538	2.34	U
107	35.04	395.3				0.213	0.768	U
108	35.92	429.8				0.324	0.438	U
109	36.16	429.8				1.16	7.68	U
110	36.71	429.8				1.84	7.86	U
111	37.90	395.3				0.231	0.231	U
112	39.49	429.8				0.368	1.01	U
113	40.01	464.2				0.438	0.903	U
114	40.97	464.2				0.154	0.340	U
115	42.42	429.8				0.969	3.29	U
116	43.32	429.8				0.838	0.838	U
117	48.57	464.2				0.384	1.24	U
118	54.73	498.6				0.126	0.126	U

Total Concentration = 71.5 ng/L

91.0

322

Total Nanomoles = 0.316

Average Molecular Weight = 226.5

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 46.99 minutes

Internal Standard Peak Area = 162743.6

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

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 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090903-CT001  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 17:23:11  
 Lab Sample ID: AM15406DL1RR1  
 LRF ID: 09090045-01DL1RR1  
 Lab File ID: GC16-783-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	2		-	-
3	12.83	1:0	002	3		-	-
4	12.93	1:0	003	4		-	-
5	13.57	2:2	004 010	0.2888	2-2; 26	88.647	90.012
6	14.41	2:1	007 009		24; 25	-	-
7	14.72	2:1	006		2-3	-	-
8	14.91	2:1	005 008		23; 2-4	-	-
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	11.353	9.988
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013		34; 3-4	-	-
14	16.42	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.51	3:2	017		24-2	-	-
16	16.81	3:2	024 027		236; 26-3	-	-
17	17.08	3:2	016 032		23-2; 26-4	-	-
19	17.53	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.71	3:1	029		245	-	-
21	17.83	3:1	026		25-3	-	-
22	17.92	3:1	025		24-3	-	-
23	18.11	3:1	031		25-4	-	-
24	18.16	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.52	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.75	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.98	4:3	045		236-2	-	-
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046		23-26	-	-
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.72	4:2	043 049		235-2; 24-25	-	-
33	19.84	4:2	038 047		345; 24-24	-	-
34	19.90	4:2	048 075		245-2; 246-4	-	-
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.43	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.77	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096		24-35; 236-26	-	-
42	21.03	4:2	040		23-23	-	-
43	21.29	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.45	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.62	4:1	063		235-4	-	-
46	21.79	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.92	4:1	070		25-34	-	-
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.33	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.64	4:1	056 060		23-34; 234-4	-	-
51	22.88	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.98	5:3	089		234-26	-	-
53	23.14	5:2	090 101		235-24; 245-25	-	-
54	23.34	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.61	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.71	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.93	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	24.10	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.26	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.38	6:4	120 136		245-35; 236-236	-	-
61	24.51	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.79	6:3	154		245-246	-	-
63	24.87	5:2	082		234-23	-	-
64	25.17	6:3	151		2356-25	-	-
65	25.30	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.37	6:3	144		2346-25	-	-
67	25.44	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.53	5:1	123		345-24	-	-
69	25.62	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.66	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.82	6:2	153		245-245	-	-
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.80	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.02	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	126 129		345-34; 2345-23	-	-
85	28.77	7:3	166 178		23456-4; 2356-235	-	-
87	29.08	7:3	175 159		2346-235; 2345-35	-	-
88	29.22	7:3	182 187		2345-246; 2356-245	-	-
89	29.35	6:2	128 162		234-234; 235-345	-	-
90	29.53	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.15	7:3	185		23456-25	-	-
93	30.53	7:3	174 181		2345-236; 23456-24	-	-
94	30.81	7:3	177		2356-234	-	-
95	31.11	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.38	8:4	157 202		234-345; 2356-2356	-	-
98	31.55	7:3	173		23456-23	-	-
99	31.92	8:4	201		2346-2356	-	-
100	32.18	7:2	172 204		2345-235; 23456-246	-	-
101	32.48	8:4	192 197		23456-35; 2346-2346	-	-
102	32.67	7:2	180		2345-245	-	-
103	32.92	7:2	193		2356-345	-	-
104	33.23	7:2	191		2346-345	-	-
105	33.58	8:4	200 169		23456-236; 345-345	-	-
106	34.76	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 71.5 ng/L

Total Nanomoles = 0.316

Average Molecular Weight = 226.5

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09090045
ELAP ID No:	11078	LRF ID:	09090045-02RR1
Matrix:	Water	Client ID:	WFF-WAFO-090903-CT001
Sample Wt(Dry)/Vol:	980 mL	Lab Sample ID:	AM15407RR1
% Moisture:	100	Lab File ID:	GC16-783-8
Extraction:	Solid Phase Extraction - 1L	Date Received:	09/03/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	09/03/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	09/05/2009 18:30
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 172479

Percent Recovery (50 - 150 %): 103

SAMPLE TOTAL PCB CONCENTRATION: 137 ng/L

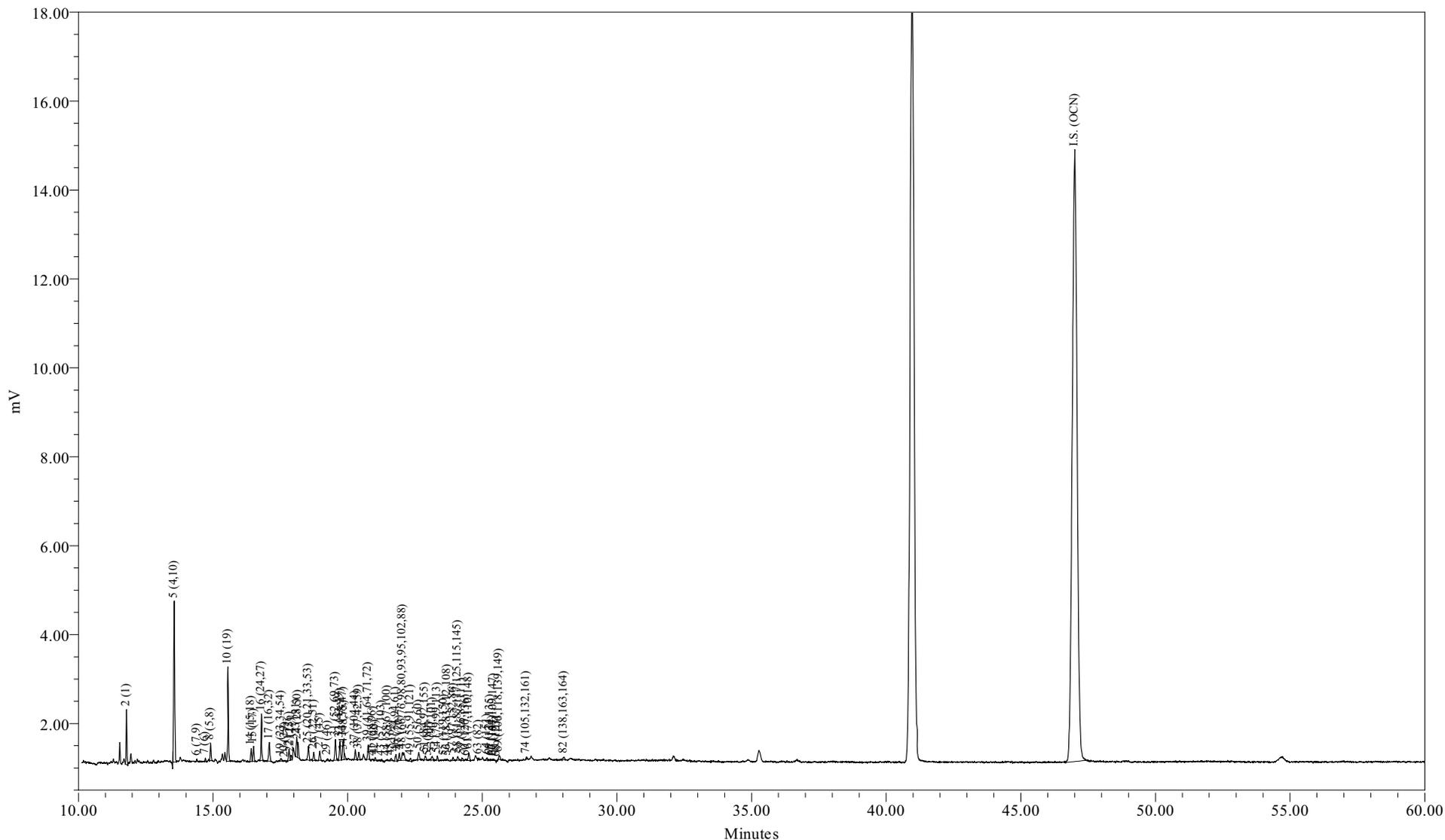
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM15407RR1  
Sample ID: WFF-WAFO-090903-CT001  
Date Acquired: 09/05/2009 18:30:33 EDT

Sample Amount (L) : 0.9800  
Dilution: 5  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-783-8

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090903-CT001  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 18:30:33  
 Lab Sample ID: AM15407RR1  
 LRF ID: 09090045-02RR1  
 Lab File ID: GC16-783-8

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 137 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	31.56	36.67
Di	45.69	44.87
Tri	15.09	12.85
Tetra	5.83	4.39
Penta	1.64	1.10
Hexa	0.20	0.13
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	43.3006	94.8	95.5
A1242	23+24/31+28	1.8674	4.09	4.12
A1254SED	61/100	0.4931	1.08	
A1254BIO	69+75+82/149+153+138	0.1828		0.403
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.63

Meta + Para Cl / biphenyl Residue = 0.26

Total Cl / biphenyl Residue = 1.89

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090903-CT001  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 18:30:33  
 Lab Sample ID: AM15407RR1  
 LRF ID: 09090045-02RR1  
 Lab File ID: GC16-783-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7	2298	43.3	229	0.539	2.24	
3	12.83	188.7				6.76	1020	U
4	12.93	188.7				0.362	1.31	U
5	13.56	223.1	1201	60.4	271	1.37	6.34	B
6	14.40	223.1	109	0.173	0.777	0.0735	0.224	J
7	14.72	223.1	153	0.246	1.10	0.161	0.354	J
8	14.91	223.1	923	1.51	6.78	0.553	2.61	J
9	15.48	223.1				0.300	25.5	U
10	15.56	257.5	544	7.45	28.9	0.616	1.04	
11	16.03	257.5				0.203	25.5	U
12	16.09	223.1				0.313	25.5	U
13	16.29	223.1				0.0570	0.0995	U
14	16.42	249.0	782	1.37	5.50	0.131	0.690	B
15	16.51	257.5	885	2.62	10.2	0.146	0.690	
16	16.80	257.5	2645	2.55	9.90	0.0382	0.0485	B
17	17.09	257.5	1198	1.93	7.51	0.169	0.727	
19	17.53	267.9	164	0.222	0.830	0.131	25.5	J
20	17.68	257.5	35	0.0285	0.110	0.0110	0.0198	B
21	17.83	257.5	736	0.932	3.62	0.0618	0.134	B
22	17.89	257.5	289	0.233	0.907	0.0434	0.0597	B
23	18.11	257.5	1200	1.11	4.31	0.497	0.769	
24	18.16	257.5	895	0.759	2.95	0.215	0.984	J
25	18.55	259.5	914	0.982	3.78	0.107	0.741	
26	18.74	258.7	540	0.673	2.60	0.122	0.541	
27	18.97	292.0	611	0.655	2.24	0.0374	0.166	B
28	19.12	257.5				0.383	25.5	U
29	19.25	292.0	153	0.166	0.570	0.129	0.129	
30	19.39	257.5				0.123	25.5	U
31	19.55	292.0	1354	2.00	6.85	0.208	0.889	
32	19.71	292.0	1206	0.920	3.15	0.0998	0.429	
33	19.83	292.0	1357	0.673	2.30	0.0669	0.186	
34	19.88	292.0	373	0.240	0.822	0.0590	0.186	
35	20.04	292.0				0.209	25.5	U
36	20.13	257.5				0.147	25.5	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.28	292.0	625	0.528	1.81	0.164	0.802	J
38	20.41	272.4	492	0.568	2.09	0.117	0.485	
39	20.77	292.0	1025	0.707	2.42	0.124	0.765	J
41	20.94	326.4	40			0.117	25.5	U
42	21.02	292.0	159	0.177	0.606	0.0988	0.175	
43	21.27	298.9	37			0.156	25.5	U
44	21.48	298.9	76	0.0581	0.195	0.0230	0.0410	B
45	21.62	292.0	119	0.0743	0.254	0.0305	0.0392	
46	21.79	292.0	447	0.251	0.858	0.0838	0.354	J
47	21.92	292.0	494	0.276	0.944	0.167	0.634	J
48	22.04	293.5	1105	0.923	3.14	0.248	1.34	J
49	22.34	324.7	239	0.203	0.626	0.0384	0.0951	
50	22.64	292.0	498			0.367	0.653	U
51	22.89	326.4	292	0.504	1.54	0.0906	0.336	
52	23.00	326.4	30			0.0392	0.0392	U
53	23.14	326.4	264	0.239	0.733	0.0705	0.336	J
54	23.33	326.4	205	0.112	0.344	0.103	0.138	J
55	23.59	326.4	31	0.00851	0.0261	0.00657	0.0105	J
56	23.70	326.4	45			0.0660	0.0660	U
57	23.92	326.4	219	0.137	0.418	0.0444	0.104	B
58	24.09	326.4	314	0.215	0.660	0.0859	0.216	J
59	24.24	326.4	192	0.128	0.391	0.0494	0.131	JB
60	24.40	360.9	96	0.0798	0.221	0.0787	0.140	J
61	24.50	326.4	591	0.493	1.51	0.0682	0.397	B
62	24.79	360.9				0.115	25.5	U
63	24.86	326.4	103	0.0394	0.121	0.0205	0.0820	J
64	25.18	360.9	145	0.0672	0.186	0.0529	0.317	J
65	25.30	350.5	63			0.0152	0.0541	U
66	25.39	360.9	69	0.0778	0.216	0.0552	0.112	JB
67	25.43	336.8	67	0.0535	0.159	0.0356	0.0485	
68	25.54	326.4	34			0.128	25.5	U
69	25.63	337.5	309	0.126	0.373	0.0957	0.746	J
70	25.74	360.9				0.0846	25.5	U
71	26.04	347.8				0.0355	0.0377	U
72	26.23	336.8				0.00651	0.0109	U
73	26.52	360.9				0.0327	0.0727	U
74	26.64	347.8	152			0.0736	0.253	U
75	26.82	360.9				0.111	0.549	U
76	26.93	360.9				0.109	25.5	U
77	27.35	360.9				0.0650	0.317	U
78	27.42	395.3				0.0480	0.272	U
79	27.65	360.9				0.0511	0.0511	U
80	27.80	360.9				0.0154	0.0485	U
82	28.04	360.9	257			0.110	0.503	U
83	28.21	360.9				0.0459	0.0466	U
84	28.42	360.9				0.00316	0.00483	U
85	28.77	395.3				0.0691	0.205	U
87	29.08	395.3				0.0160	0.0746	U
88	29.22	395.3				0.104	0.671	U
89	29.35	360.9				0.0203	0.0373	U
90	29.53	395.3				0.0692	0.317	U
91	29.83	360.9				0.0355	0.0355	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.0229	0.0876	U
93	30.53	394.3				0.104	0.597	U
94	30.81	394.3				0.0955	0.317	U
95	31.11	382.2				0.0889	0.147	U
96	31.38	429.8				0.00961	0.0123	U
98	31.55	395.3				0.0136	0.0142	U
99	31.92	429.8				0.0881	0.0881	U
100	32.18	395.3				0.129	0.129	U
101	32.48	429.8				0.222	0.222	U
102	32.67	395.3				0.153	1.14	U
103	32.92	395.3				0.0653	0.0783	U
104	33.23	395.3				0.0382	0.0447	U
105	33.58	429.8				0.0470	0.0802	U
106	34.76	395.3				0.0549	0.239	U
107	35.04	395.3				0.0217	0.0783	U
108	35.92	429.8				0.0330	0.0447	U
109	36.16	429.8				0.118	0.783	U
110	36.71	429.8				0.188	0.802	U
111	37.90	395.3				0.0235	0.0235	U
112	39.49	429.8				0.0375	0.103	U
113	40.01	464.2				0.0447	0.0921	U
114	40.97	464.2				0.0157	0.0347	U
115	42.42	429.8				0.0988	0.336	U
116	43.32	429.8				0.0855	0.0855	U
117	48.57	464.2				0.0391	0.127	U
118	54.73	498.6				0.0128	0.0128	U

Total Concentration = 137 ng/L

11.1

39.5

Total Nanomoles = 0.626

Average Molecular Weight = 219.2

Number of Calibrated Peaks Found = 57

Internal Standard Retention Time = 47.01 minutes

Internal Standard Peak Area = 172479.1

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090903-CT001  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 18:30:33  
 Lab Sample ID: AM15407RR1  
 LRF ID: 09090045-02RR1  
 Lab File ID: GC16-783-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2508	2	31.559	36.667
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.56	2:2	004 010	0.2884	2-2; 26	44.030	43.269
6	14.40	2:1	007 009	0.3063	24; 25	0.126	0.124
7	14.72	2:1	006	0.3131	2-3	0.179	0.176
8	14.91	2:1	005 008	0.3172	23; 2-4	1.103	1.084
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019	0.3310	26-2	5.432	4.625
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013		34; 3-4	-	-
14	16.42	2:0 3:2	015 018	0.3493	4-4; 25-2	0.999	0.880
15	16.51	3:2	017	0.3512	24-2	1.907	1.624
16	16.80	3:2	024 027	0.3574	236; 26-3	1.858	1.582
17	17.09	3:2	016 032	0.3635	23-2; 26-4	1.409	1.199
19	17.53	3:1 4:4	023 034 054	0.3729	235; 35-2; 26-26	0.162	0.133
20	17.68	3:1	029	0.3761	245	0.021	0.018
21	17.83	3:1	026	0.3793	25-3	0.679	0.578
22	17.89	3:1	025	0.3806	24-3	0.170	0.145
23	18.11	3:1	031	0.3852	25-4	0.808	0.688
24	18.16	3:1 4:3	028 050	0.3863	24-4; 246-2	0.553	0.471
25	18.55	3:1 4:3	020 021 033 053	0.3946	23-3; 234; 34-2; 25-26	0.716	0.605
26	18.74	3:1 4:3	022 051	0.3986	23-4; 24-26	0.490	0.415
27	18.97	4:3	045	0.4035	236-2	0.477	0.359
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4095	23-26	0.121	0.091
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4159	25-25; 246-3; 26-35	1.459	1.095
32	19.71	4:2	043 049	0.4193	235-2; 24-25	0.671	0.504
33	19.83	4:2	038 047	0.4218	345; 24-24	0.490	0.368
34	19.88	4:2	048 075	0.4229	245-2; 246-4	0.175	0.131
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.28	5:4 4:2	104 044	0.4314	246-26; 23-25	0.385	0.289
38	20.41	3:0 4:2	037 042 059	0.4342	34-4; 23-24; 236-3	0.414	0.333
39	20.77	4:2	041 064 071 072	0.4418	234-2; 236-4; 26-34; 25-35	0.515	0.387

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.94	5:4	068 096		24-35; 236-26	-	-
42	21.02	4:2	040	0.4471	23-23	0.129	0.097
43	21.27	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.48	4:1 5:3	058 067 100	0.4569	23-35; 245-3; 246-24	0.042	0.031
45	21.62	4:1	063	0.4599	235-4	0.054	0.041
46	21.79	4:1 5:3	074 094 061	0.4635	245-4; 235-26; 2345	0.183	0.137
47	21.92	4:1	070	0.4663	25-34	0.201	0.151
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088	0.4688	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.673	0.502
49	22.34	4:1 5:3	055 091 121	0.4752	234-3; 236-24; 246-35	0.148	0.100
50	22.64	4:1	056 060		23-34; 234-4	-	-
51	22.89	5:3 6:4	084 092 155	0.4869	236-23; 235-25; 246-246	0.367	0.247
52	23.00	5:3	089		234-26	-	-
53	23.14	5:2	090 101	0.4922	235-24; 245-25	0.174	0.117
54	23.33	5:2	079 099 113	0.4963	34-35; 245-24; 236-35	0.082	0.055
55	23.59	5:2 6:4	119 150	0.5018	246-34; 236-246	0.006	0.004
56	23.70	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.92	5:2 6:4	097 152 086	0.5088	245-23; 2356-26; 2345-2	0.100	0.067
58	24.09	5:2	081 087 117 125 115 145	0.5124	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.157	0.105
59	24.24	5:2	116 085 111	0.5156	23456; 234-24; 235-35	0.093	0.063
60	24.40	6:4	120 136	0.5190	245-35; 236-236	0.058	0.035
61	24.50	5:2	077 110 148	0.5212	34-34; 236-34; 235-246	0.359	0.241
62	24.79	6:3	154		245-246	-	-
63	24.86	5:2	082	0.5288	234-23	0.029	0.019
64	25.18	6:3	151	0.5356	2356-25	0.049	0.030
65	25.30	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.39	6:3	144	0.5401	2346-25	0.057	0.034
67	25.43	5:1 6:3	107 109 147	0.5409	234-35; 235-34; 2356-24	0.039	0.025
68	25.54	5:1	123		345-24	-	-
69	25.63	5:1 6:3	106 118 139 149	0.5452	2345-3; 245-34; 2346-24; 236-245	0.092	0.060
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.64	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.82	6:2	153		245-245	-	-
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.80	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.04	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	126 129		345-34; 2345-23	-	-
85	28.77	7:3	166 178		23456-4; 2356-235	-	-
87	29.08	7:3	175 159		2346-235; 2345-35	-	-
88	29.22	7:3	182 187		2345-246; 2356-245	-	-
89	29.35	6:2	128 162		234-234; 235-345	-	-
90	29.53	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.15	7:3	185		23456-25	-	-
93	30.53	7:3	174 181		2345-236; 23456-24	-	-
94	30.81	7:3	177		2356-234	-	-
95	31.11	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.38	8:4	157 202		234-345; 2356-2356	-	-
98	31.55	7:3	173		23456-23	-	-
99	31.92	8:4	201		2346-2356	-	-
100	32.18	7:2	172 204		2345-235; 23456-246	-	-
101	32.48	8:4	192 197		23456-35; 2346-2346	-	-
102	32.67	7:2	180		2345-245	-	-
103	32.92	7:2	193		2356-345	-	-
104	33.23	7:2	191		2346-345	-	-
105	33.58	8:4	200 169		23456-236; 345-345	-	-
106	34.76	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 137 ng/L

Total Nanomoles = 0.626

Average Molecular Weight = 219.2

Number of Calibrated Peaks Found = 57

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

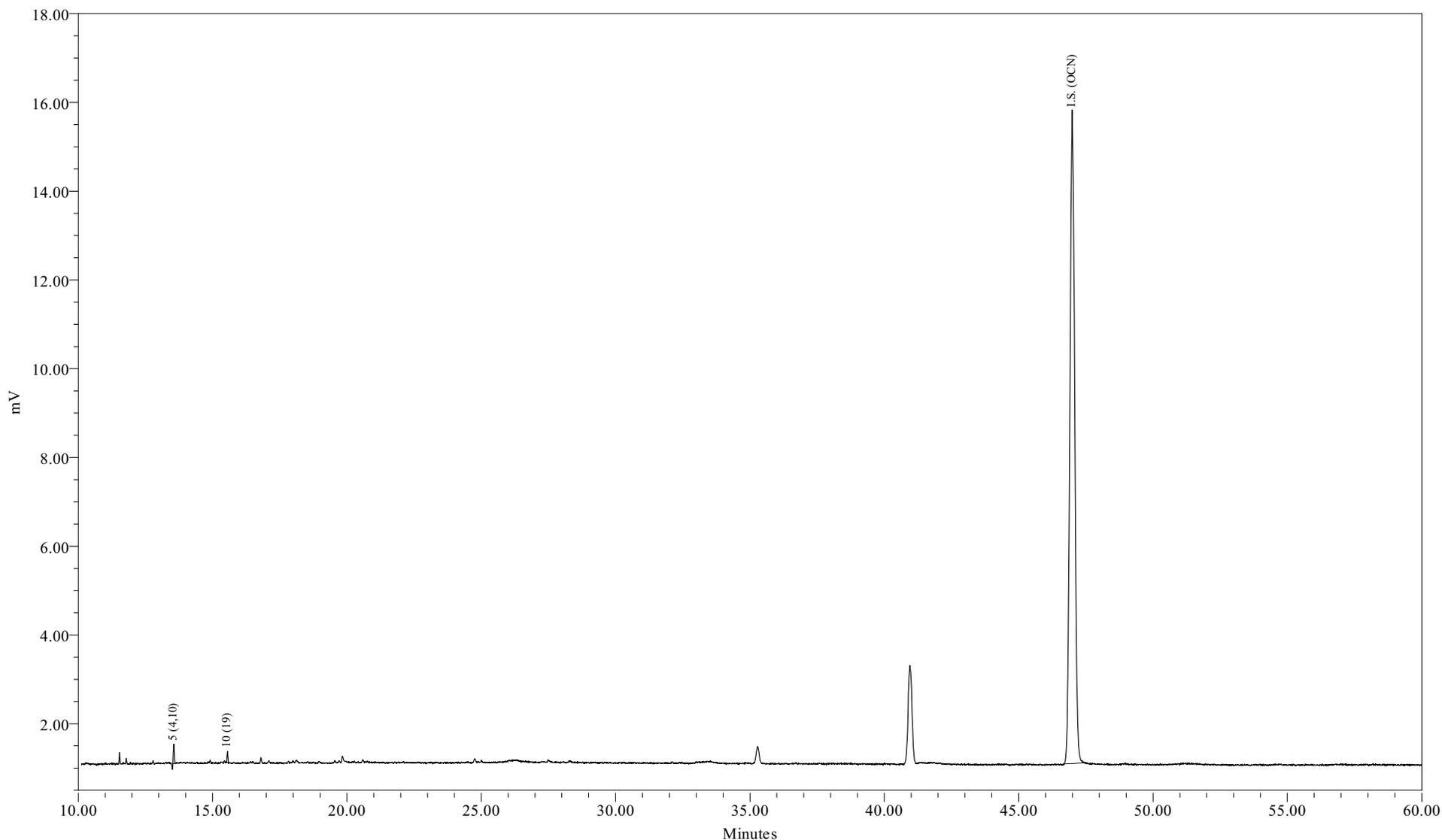
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM15407DL1RR1  
Sample ID: WFF-WAFO-090903-CT001  
Date Acquired: 09/05/2009 20:45:11 EDT

Sample Amount (L) : 0.9800  
Dilution: 50  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-783-9

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090903-CT001  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 20:45:11  
 Lab Sample ID: AM15407DL1RR1  
 LRF ID: 09090045-02DL1RR1  
 Lab File ID: GC16-783-9

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 67.9 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	89.02	90.34
Tri	10.98	9.66
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.10

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.10

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090903-CT001  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 20:45:11  
 Lab Sample ID: AM15407DL1RR1  
 LRF ID: 09090045-02DL1RR1  
 Lab File ID: GC16-783-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7				5.39	22.4	U
3	12.83	188.7				67.6	10200	U
4	12.93	188.7				3.62	13.1	U
5	13.56	223.1	1201	60.4	271	1.37	6.34	B
6	14.41	223.1				0.735	2.24	U
7	14.72	223.1				1.61	3.54	U
8	14.91	223.1				5.53	26.1	U
9	15.48	223.1				3.00	255	U
10	15.56	257.5	544	7.45	28.9	0.616	1.04	
11	16.03	257.5				2.03	255	U
12	16.09	223.1				3.13	255	U
13	16.29	223.1				0.570	0.995	U
14	16.42	249.0				1.31	6.90	U
15	16.51	257.5				1.46	6.90	U
16	16.81	257.5				0.382	0.485	U
17	17.08	257.5				1.69	7.27	U
19	17.53	267.9				1.31	255	U
20	17.71	257.5				0.110	0.198	U
21	17.83	257.5				0.618	1.34	U
22	17.92	257.5				0.434	0.597	U
23	18.11	257.5				4.97	7.69	U
24	18.16	257.5				2.15	9.84	U
25	18.52	259.5				1.07	7.41	U
26	18.75	258.7				1.22	5.41	U
27	18.98	292.0				0.374	1.66	U
28	19.12	257.5				3.83	255	U
29	19.25	292.0				1.29	1.29	U
30	19.39	257.5				1.23	255	U
31	19.55	292.0				2.08	8.89	U
32	19.72	292.0				0.998	4.29	U
33	19.84	292.0				0.669	1.86	U
34	19.90	292.0				0.590	1.86	U
35	20.04	292.0				2.09	255	U
36	20.13	257.5				1.47	255	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0				1.64	8.02	U
38	20.43	272.4				1.17	4.85	U
39	20.77	292.0				1.24	7.65	U
41	20.93	326.4				1.17	255	U
42	21.03	292.0				0.988	1.75	U
43	21.29	298.9				1.56	255	U
44	21.45	298.9				0.230	0.410	U
45	21.62	292.0				0.305	0.392	U
46	21.79	292.0				0.838	3.54	U
47	21.92	292.0				1.67	6.34	U
48	22.04	293.5				2.48	13.4	U
49	22.33	324.7				0.384	0.951	U
50	22.64	292.0				3.67	6.53	U
51	22.88	326.4				0.906	3.36	U
52	22.98	326.4				0.392	0.392	U
53	23.14	326.4				0.705	3.36	U
54	23.34	326.4				1.03	1.38	U
55	23.61	326.4				0.0657	0.105	U
56	23.71	326.4				0.660	0.660	U
57	23.93	326.4				0.444	1.04	U
58	24.10	326.4				0.859	2.16	U
59	24.26	326.4				0.494	1.31	U
60	24.38	360.9				0.787	1.40	U
61	24.51	326.4				0.682	3.97	U
62	24.79	360.9				1.15	255	U
63	24.87	326.4				0.205	0.820	U
64	25.17	360.9				0.529	3.17	U
65	25.30	350.5				0.152	0.541	U
66	25.37	360.9				0.552	1.12	U
67	25.44	336.8				0.356	0.485	U
68	25.53	326.4				1.28	255	U
69	25.62	337.5				0.957	7.46	U
70	25.74	360.9				0.846	255	U
71	26.04	347.8				0.355	0.377	U
72	26.23	336.8				0.0651	0.109	U
73	26.52	360.9				0.327	0.727	U
74	26.66	347.8				0.736	2.53	U
75	26.82	360.9				1.11	5.49	U
76	26.93	360.9				1.09	255	U
77	27.35	360.9				0.650	3.17	U
78	27.42	395.3				0.480	2.72	U
79	27.65	360.9				0.511	0.511	U
80	27.80	360.9				0.154	0.485	U
82	28.02	360.9				1.10	5.03	U
83	28.21	360.9				0.459	0.466	U
84	28.42	360.9				0.0316	0.0483	U
85	28.77	395.3				0.691	2.05	U
87	29.08	395.3				0.160	0.746	U
88	29.22	395.3				1.04	6.71	U
89	29.35	360.9				0.203	0.373	U
90	29.53	395.3				0.692	3.17	U
91	29.83	360.9				0.355	0.355	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.229	0.876	U
93	30.53	394.3				1.04	5.97	U
94	30.81	394.3				0.955	3.17	U
95	31.11	382.2				0.889	1.47	U
96	31.38	429.8				0.0961	0.123	U
98	31.55	395.3				0.136	0.142	U
99	31.92	429.8				0.881	0.881	U
100	32.18	395.3				1.29	1.29	U
101	32.48	429.8				2.22	2.22	U
102	32.67	395.3				1.53	11.4	U
103	32.92	395.3				0.653	0.783	U
104	33.23	395.3				0.382	0.447	U
105	33.58	429.8				0.470	0.802	U
106	34.76	395.3				0.549	2.39	U
107	35.04	395.3				0.217	0.783	U
108	35.92	429.8				0.330	0.447	U
109	36.16	429.8				1.18	7.83	U
110	36.71	429.8				1.88	8.02	U
111	37.90	395.3				0.235	0.235	U
112	39.49	429.8				0.375	1.03	U
113	40.01	464.2				0.447	0.921	U
114	40.97	464.2				0.157	0.347	U
115	42.42	429.8				0.988	3.36	U
116	43.32	429.8				0.855	0.855	U
117	48.57	464.2				0.391	1.27	U
118	54.73	498.6				0.128	0.128	U

Total Concentration = 67.9 ng/L

92.9

328

Total Nanomoles = 0.300

Average Molecular Weight = 226.4

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 184780.1

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090903-CT001  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 20:45:11  
 Lab Sample ID: AM15407DL1RR1  
 LRF ID: 09090045-02DL1RR1  
 Lab File ID: GC16-783-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	2		-	-
3	12.83	1:0	002	3		-	-
4	12.93	1:0	003	4		-	-
5	13.56	2:2	004 010	0.2885	2-2; 26	89.018	90.344
6	14.41	2:1	007 009		24; 25	-	-
7	14.72	2:1	006		2-3	-	-
8	14.91	2:1	005 008		23; 2-4	-	-
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019	0.3311	26-2	10.982	9.656
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013		34; 3-4	-	-
14	16.42	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.51	3:2	017		24-2	-	-
16	16.81	3:2	024 027		236; 26-3	-	-
17	17.08	3:2	016 032		23-2; 26-4	-	-
19	17.53	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.71	3:1	029		245	-	-
21	17.83	3:1	026		25-3	-	-
22	17.92	3:1	025		24-3	-	-
23	18.11	3:1	031		25-4	-	-
24	18.16	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.52	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.75	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.98	4:3	045		236-2	-	-
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046		23-26	-	-
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.72	4:2	043 049		235-2; 24-25	-	-
33	19.84	4:2	038 047		345; 24-24	-	-
34	19.90	4:2	048 075		245-2; 246-4	-	-
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.43	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.77	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096		24-35; 236-26	-	-
42	21.03	4:2	040		23-23	-	-
43	21.29	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.45	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.62	4:1	063		235-4	-	-
46	21.79	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.92	4:1	070		25-34	-	-
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.33	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.64	4:1	056 060		23-34; 234-4	-	-
51	22.88	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.98	5:3	089		234-26	-	-
53	23.14	5:2	090 101		235-24; 245-25	-	-
54	23.34	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.61	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.71	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.93	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	24.10	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.26	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.38	6:4	120 136		245-35; 236-236	-	-
61	24.51	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.79	6:3	154		245-246	-	-
63	24.87	5:2	082		234-23	-	-
64	25.17	6:3	151		2356-25	-	-
65	25.30	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.37	6:3	144		2346-25	-	-
67	25.44	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.53	5:1	123		345-24	-	-
69	25.62	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.66	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.82	6:2	153		245-245	-	-
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.80	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.02	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	126 129		345-34; 2345-23	-	-
85	28.77	7:3	166 178		23456-4; 2356-235	-	-
87	29.08	7:3	175 159		2346-235; 2345-35	-	-
88	29.22	7:3	182 187		2345-246; 2356-245	-	-
89	29.35	6:2	128 162		234-234; 235-345	-	-
90	29.53	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.15	7:3	185		23456-25	-	-
93	30.53	7:3	174 181		2345-236; 23456-24	-	-
94	30.81	7:3	177		2356-234	-	-
95	31.11	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.38	8:4	157 202		234-345; 2356-2356	-	-
98	31.55	7:3	173		23456-23	-	-
99	31.92	8:4	201		2346-2356	-	-
100	32.18	7:2	172 204		2345-235; 23456-246	-	-
101	32.48	8:4	192 197		23456-35; 2346-2346	-	-
102	32.67	7:2	180		2345-245	-	-
103	32.92	7:2	193		2356-345	-	-
104	33.23	7:2	191		2346-345	-	-
105	33.58	8:4	200 169		23456-236; 345-345	-	-
106	34.76	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 67.9 ng/L

Total Nanomoles = 0.300

Average Molecular Weight = 226.4

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

# Sample GC Injection Log



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
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Sample Set Name: GC16\_CC\_082309  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 08/23/2009 02:05:02 EDT  
Current Date: 09/02/2009  
Report Name: CSGB\_SSReport

### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090823B01	1.000	1.00	1	08/23/2009 02:12:16 EDT
2	HEXANE BLANK	Unknown	090823B02	1.000	1.00	1	08/23/2009 03:19:41 EDT
3	ICAL 6.25 ng/mL	Standard	ICAL0823A	1.000	1.00	1	08/23/2009 04:27:16 EDT
4	ICAL 12.5 ng/mL	Standard	ICAL0823B	1.000	1.00	1	08/23/2009 05:34:46 EDT
5	ICAL 125 ng/mL	Standard	ICAL0823C	1.000	1.00	1	08/23/2009 06:42:13 EDT
6	ICAL 314 ng/mL	Standard	ICAL0823D	1.000	1.00	1	08/23/2009 07:49:33 EDT
7	ICAL 627 ng/mL	Standard	ICAL0823E	1.000	1.00	1	08/23/2009 08:56:52 EDT
8	HEXANE BLANK	Unknown	090823B03	1.000	1.00	1	08/23/2009 10:04:12 EDT
9	SUP CONG STD 200/5 ng/mL	Standard	SC0823A	1.000	1.00	1	08/23/2009 11:11:32 EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0823A	1.000	1.00	1	08/23/2009 12:18:49 EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0823B	1.000	1.00	1	08/23/2009 13:26:05 EDT
12	Surr TCMX/DCBP 5/50 ppb	Standard	TD0823A	1.000	1.00	1	08/23/2009 14:33:23 EDT
13	HEXANE BLANK	Unknown	090823B04	1.000	1.00	1	08/23/2009 15:40:42 EDT
14	CCC Std 122 ng/mL	Unknown	CCCS0823A	1.000	1.00	1	08/23/2009 16:48:04 EDT



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Sample Set Name: GC16\_090309c  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 09/03/2009 09:57:32  
Date Printed: 09/06/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090903B02	1.000	1.00	1	09/03/2009 09:57:32
2	CCC Std 122 ng/mL	Unknown	CCCS0903A	1.000	1.00	1	09/03/2009 11:04:51
3	METHOD BLANK	Unknown	AM15338B	1.000	5.00	5	09/03/2009 12:39:55
4	LAB CONTROL SPIKE	Unknown	AM15338L	1.000	5.00	5	09/03/2009 13:47:09
5	ZZZZZ	Unknown	ZZZZZ	0.970	5.00	5	09/03/2009 14:54:24
6	ZZZZZ	Unknown	ZZZZZ	0.970	50.00	5	09/03/2009 16:01:43
7	ZZZZZ	Unknown	ZZZZZ	1.000	5.00	5	09/03/2009 17:09:00
8	ZZZZZ	Unknown	ZZZZZ	1.000	50.00	5	09/03/2009 18:16:24
9	CCC Std 122 ng/mL	Unknown	CCCS0903B	1.000	1.00	1	09/03/2009 19:23:48



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Sample Set Name: GC16\_090509A  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 09/05/2009 10:52:07  
Date Printed: 09/06/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090905B02	1.000	1.00	1	09/05/2009 10:52:07
2	CCC Std 122 ng/mL	Unknown	CCCS0905A	1.000	1.00	1	09/05/2009 11:59:33
3	ZZZZZ	Unknown	ZZZZZ	0.960	5.00	5	09/05/2009 14:01:07
4	WFF-WAFA-090903-CT001	Unknown	AM15406RR1	1.030	5.00	5	09/05/2009 16:15:51
5	WFF-WAFA-090903-CT001	Unknown	AM15406DL1RR1	1.030	50.00	5	09/05/2009 17:23:11
6	WFF-WAFO-090903-CT001	Unknown	AM15407RR1	0.980	5.00	5	09/05/2009 18:30:33
7	WFF-WAFO-090903-CT001	Unknown	AM15407DL1RR1	0.980	50.00	5	09/05/2009 20:45:11
8	CCC Std 122 ng/mL	Unknown	CCCS0905B	1.000	1.00	1	09/05/2009 21:52:24



Project Name: GC16\_May\_2009  
Sample Set Name: GC16\_090309c  
Date Printed: 09/06/2009

**Operating Conditions Gas Chromatography**

User Name: Keith Friedman Injection Method: Splitless  
Sample Size: 0.5 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: Agilent DB-1; 30 meter; 0.25 micron phase thickness  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 28.8 psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector 1 GC16 Detector Type: ECD Detector Range: 3



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Project Name: GC16\_May\_2009  
Sample Set Name: GC16\_090509A  
Date Printed: 09/06/2009

**Operating Conditions Gas Chromatography**

User Name: Amy Jo Arndt Injection Method: Splitless  
Sample Size: 0.5 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: Agilent DB-1; 30 meter; 0.25 micron phase thickness  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 28.8 psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector 1 GC16 Detector Type: ECD Detector Range: 3

# Standards Summary Tables



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
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Sample Set Name: GC16\_CC\_082309  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 08/23/2009 02:05:02 EDT  
Current Date: 09/02/2009  
Report Name: CSGB\_SumRpt\_OCNArea

**ICAL OCN Area Summary Report**

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0823A	ICAL 6.25 ng/mL	08/23/2009 04:27:16 EDT	168429
2	ICAL0823B	ICAL 12.5 ng/mL	08/23/2009 05:34:46 EDT	159698
3	ICAL0823C	ICAL 125 ng/mL	08/23/2009 06:42:13 EDT	170177
4	ICAL0823D	ICAL 314 ng/mL	08/23/2009 07:49:33 EDT	173183
5	ICAL0823E	ICAL 627 ng/mL	08/23/2009 08:56:52 EDT	165807
Mean				167459



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System Name: Instrument\_16 Date Calibrated: 08/24/2009 13:26:35 EDT,  
 Sample Set Name: GC16\_CC\_082309 Method Report: CSGB CCSum by RF  
 Sample Set Date: 08/23/2009 02:05:02 EDT User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309

**Calibration Component Summary Table  
 Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)
1	ICAL0823A	0.029632		0.015881	0.060102	0.346398	0.261754	0.101880			
2	ICAL0823B	0.032835		0.016975	0.058221	0.423230	0.295591	0.131906		0.384454	
3	ICAL0823C	0.029210		0.016147	0.068134	0.479796	0.226028	0.122440		0.396596	
4	ICAL0823D	0.028105		0.014452	0.057309	0.453855	0.218794	0.114890		0.381476	
5	ICAL0823E				0.061254					0.341546	
6	SC0823A		0.002899						0.176869		0.665040
Mean		0.030	0.003	0.016	0.061	0.426	0.251	0.118	0.177	0.376	0.665
Std. Dev.		0.002		0.001	0.004	0.058	0.035	0.013		0.024	
% RSD		6.78		6.62	7.01	13.57	14.14	10.77		6.35	

**Calibration Component Summary Table  
 Component Summary For RF**

	12 (11)	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)
1			0.383997	0.158294	0.568224	0.328924			0.350888	0.705294	0.613919
2		0.245194	0.382202	0.186421	0.541246	0.357916		0.619883	0.401916	0.647251	0.552787
3		0.277784	0.395495	0.194169	0.535960	0.333910		0.712928	0.453098	0.728734	0.533093
4		0.287784	0.375045	0.181353	0.569882	0.315497		0.668511	0.424895	0.620919	0.512021
5					0.556099						
6	0.064897						0.396913				
Mean	0.065	0.270	0.384	0.180	0.554	0.334	0.397	0.667	0.408	0.676	0.553
Std. Dev.		0.022	0.008	0.015	0.015	0.018		0.047	0.043	0.050	0.044
% RSD		8.24	2.21	8.57	2.78	5.30		6.98	10.61	7.40	7.94

**Calibration Component Summary Table  
 Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
1	0.586455	0.496963	0.368009	0.484763		0.492024		0.334493	0.619104	1.370859
2	0.612478	0.499220	0.492274	0.501787		0.526016		0.386396	0.773561	1.209542
3	0.596122	0.455367	0.413615	0.501694		0.490549		0.378059	0.733789	1.017967
4	0.560491	0.442032	0.407109	0.507222		0.454125		0.355374	0.694636	0.951170
5										
6					0.301528		0.298422			
Mean	0.589	0.473	0.420	0.499	0.302	0.491	0.298	0.364	0.705	1.137

**Calibration Component Summary Table  
Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
Std. Dev.	0.022	0.029	0.052	0.010		0.029		0.023	0.066	0.190
% RSD	3.70	6.14	12.39	1.95		5.98		6.44	9.34	16.73

**Calibration Component Summary Table  
Component Summary For RF**

	34 (48,75)	35 (62,65)	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)
1	0.835028			0.566170	0.458944	0.728777		0.509631		
2	0.797278			0.599105	0.462088	0.768393		0.508090		0.707261
3	0.783002			0.581960	0.467121	0.732026		0.605440		0.717802
4	0.704106			0.536620	0.450655	0.692542		0.598785		0.793915
5										
6		0.787266	0.281286				0.443464		0.605790	
Mean	0.780	0.787	0.281	0.571	0.460	0.730	0.443	0.555	0.606	0.740
Std. Dev.	0.055			0.027	0.007	0.031		0.054		0.047
% RSD	7.06			4.65	1.50	4.24		9.71		6.39

**Calibration Component Summary Table  
Component Summary For RF**

	45 (63)	46 (74,94,61)	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)
1	0.932380	0.937655	0.861708		0.604556	0.604177	0.851587	0.295758
2	0.798336	1.002220	0.838909		0.569632	0.582925	0.882795	0.314144
3	0.876852	1.029904	0.850054		0.569828	0.700596	0.832386	0.341422
4	0.812281	0.989533	0.799532		0.534135	0.671497	0.800105	0.319375
5								
6								
Mean	0.855	0.990	0.838		0.570	0.640	0.842	0.318
Std. Dev.	0.062	0.039	0.027		0.029	0.055	0.035	0.019
% RSD	7.24	3.90	3.22		5.05	8.66	4.12	5.92

**Calibration Component Summary Table  
Component Summary For RF**

	53 (90,101)	54 (79,99,113)	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)
1	0.612615	1.074533			0.788377		0.747611
2	0.644667	0.951802	1.818614	0.593047	0.885705	0.822042	0.930743
3	0.738803	1.140390	2.131712	0.724203	1.058072	0.804478	0.975828
4	0.681254	1.083548	1.826349	0.680132	0.947302	0.741962	0.940917
5							
6							
Mean	0.669	1.063	1.926	0.666	0.920	0.769	0.899
Std. Dev.	0.054	0.079	0.179	0.067	0.113	0.054	0.103
% RSD	8.09	7.47	9.27	10.02	12.28	7.01	11.42

**Calibration Component Summary Table  
Component Summary For RF**

	60 (120,136)	61 (77,110,148)	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)
1	0.669671	0.641252		1.016927	0.825962	1.454327	0.458432		
2	0.745420	0.630980		1.134854	0.818899	1.487540	0.515840	0.690004	
3	0.800029	0.734106		1.051477	0.815021	1.406136	0.515858	0.711530	
4	0.757777	0.683526		0.900550	0.759250	1.244419	0.500279	0.770566	
5									
6			0.711303						0.769564
Mean	0.743	0.672	0.711	1.026	0.805	1.398	0.498	0.724	0.770
Std. Dev.	0.054	0.047		0.097	0.031	0.108	0.027	0.042	
% RSD	7.31	6.98		9.47	3.81	7.71	5.45	5.76	

**Calibration Component Summary Table  
Component Summary For RF**

	69 (106,118,139,149)	70 (140)	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)
1	0.917208		1.106105		0.926113	1.123619	1.062408
2	0.884858		1.022079	1.909577	0.909918	1.108849	1.137977
3	0.914679		1.117389	2.188855	1.090203	1.153027	1.126951
4	0.840525		0.947250	2.009293	0.939225	1.082338	1.031638
5							
6		0.813822					
Mean	0.889	0.814	1.048	2.036	0.966	1.117	1.090
Std. Dev.	0.036		0.080	0.142	0.083	0.029	0.051
% RSD	4.01		7.59	6.95	8.63	2.64	4.69

**Calibration Component Summary Table  
Component Summary For RF**

	76 (127,168,184)	77 (141)	78 (179)	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)
1		0.656338	0.726963		1.894839	1.246194	1.557575		0.475544
2		0.660579	0.870319	0.881047	1.943213	0.892152	1.451698	6.007449	0.532805
3		0.720416	0.910090	0.852217	2.019416	1.010861	1.358386	7.182843	0.574829
4		0.645898	0.789843	0.835262	1.732219	0.949063	1.188130	7.071409	0.533033
5									
6	0.662615								
Mean	0.663	0.671	0.824	0.856	1.897	1.025	1.389	6.754	0.529
Std. Dev.		0.034	0.082	0.023	0.121	0.156	0.157	0.649	0.041
% RSD		5.02	9.94	2.70	6.40	15.18	11.28	9.61	7.71

**Calibration Component Summary Table  
Component Summary For RF**

	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
1		1.073924		0.818987		1.509153	1.045167	0.916464	0.647711	7.382299
2	0.581956	1.068903	1.389781	0.763510	1.558518	1.367680	0.961705	0.744351	0.885260	6.985274
3	0.734180	0.986819	1.772792	0.981578	1.865307	1.428605	0.953185	0.853863	0.909689	6.297338
4	0.651759	0.935849	1.554016	0.902713	1.782484	1.314779	0.908188	0.801864	0.866166	6.033590

**Calibration Component Summary Table  
Component Summary For RF**

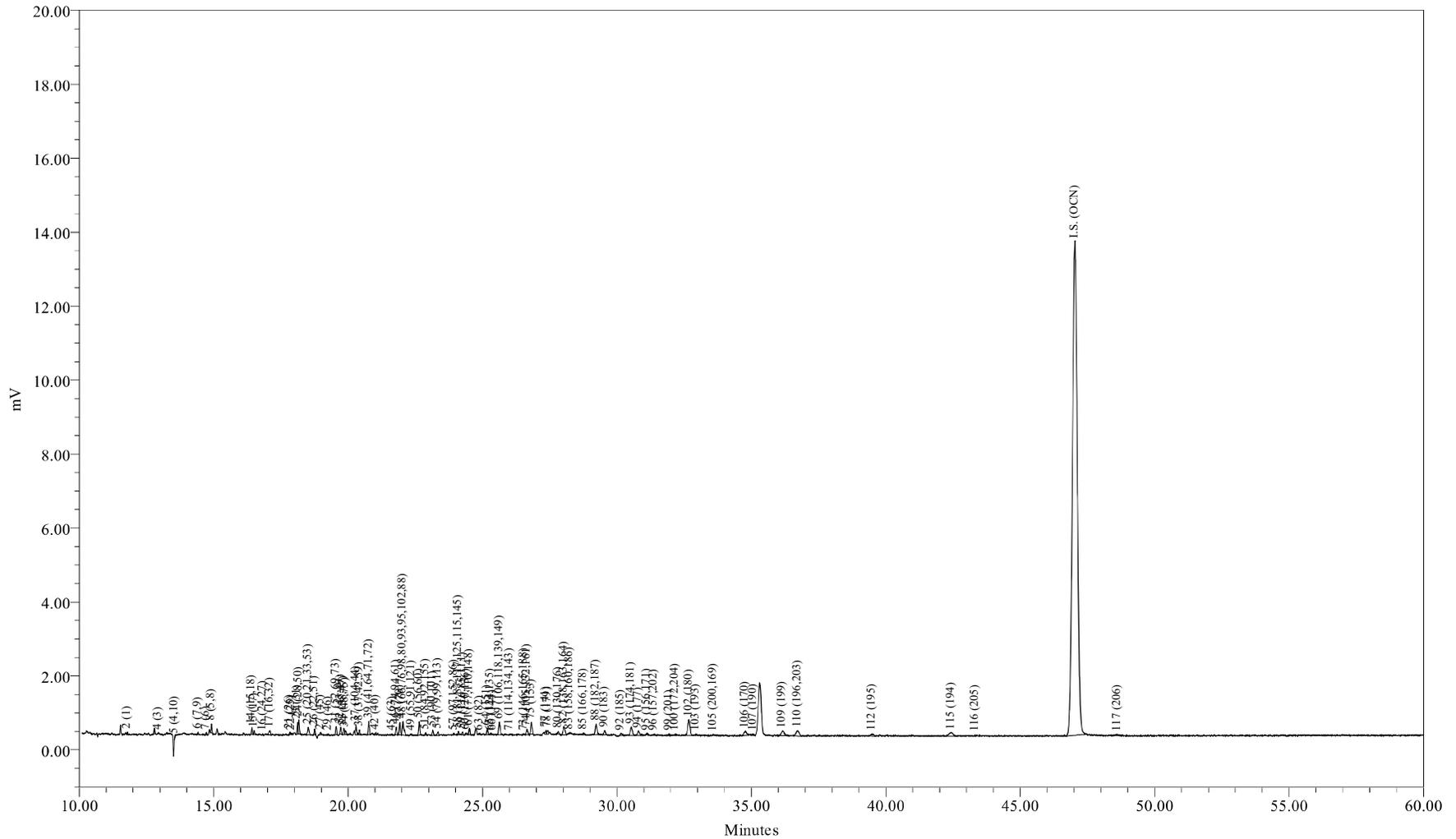
	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
5										
6										
Mean	0.656	1.016	1.572	0.867	1.735	1.405	0.967	0.829	0.827	6.675
Std. Dev.	0.076	0.067	0.192	0.096	0.159	0.084	0.057	0.073	0.121	0.619
% RSD	11.62	6.58	12.22	11.03	9.15	5.95	5.91	8.85	14.63	9.28

**Calibration Component Summary Table  
Component Summary For RF**

	98 (173)	99 (201)	100 (172,204)	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)
1		0.895254	0.919050		1.166489	0.888579		0.751066	1.746600	1.308494
2	1.489567	0.853033	0.874241	0.880843	1.181870	0.882562	0.882789	0.985890	1.717970	1.276878
3	1.476009	0.856582	0.819298	0.854574	1.088211	0.908205	0.926962	0.903351	1.620384	1.358495
4	1.218267	0.801005	0.785456	0.777560	1.036246	0.855976	0.899561	0.903833	1.580043	1.340224
5										
6										
Mean	1.395	0.851	0.850	0.838	1.118	0.884	0.903	0.886	1.666	1.321
Std. Dev.	0.153	0.039	0.059	0.054	0.068	0.022	0.022	0.098	0.079	0.036
% RSD	10.96	4.54	6.95	6.41	6.11	2.44	2.47	11.06	4.73	2.72

**Calibration Component Summary Table  
Component Summary For RF**

	108 (198)	109 (199)	110 (196,203)	111 (189)	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1		0.622931	0.776259		1.946851			1.671979	0.743385	1.029802	
2	1.621528	0.625734	0.728915	1.439485	1.564712	0.664993	1.202962	1.782264	0.882512	1.440221	1.033291
3	1.334339	0.639792	0.690651	1.522675	1.812150	0.691812	1.252099	1.469936	0.898096	1.431730	0.943801
4	1.282073	0.605368	0.659811	1.355694	1.752089	0.616906	1.321091	1.416871	0.892335	1.336120	1.157604
5											
6											
Mean	1.413	0.623	0.714	1.439	1.769	0.658	1.259	1.585	0.854	1.309	1.045
Std. Dev.	0.183	0.014	0.050	0.083	0.159	0.038	0.059	0.171	0.074	0.192	0.107
% RSD	12.94	2.27	7.04	5.80	8.97	5.77	4.71	10.80	8.67	14.69	10.28



Sample Name: ICAL0823A  
Sample ID: ICAL 6.25 ng/mL  
Date Acquired: 08/23/2009 04:27:16 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-3

Sample Name: ICAL0823A

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0823A Sample Amount: 1  
 Sample ID: ICAL 6.25 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 04:27:16 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:22 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:06:33 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-3

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	120	0.439	0.439	0.029632
2	3 (2)	12.830				
3	4 (3)	12.937	38	0.256	0.256	0.015881
4	5 (4,10)	13.550	69	0.124	0.124	0.060102
5	6 (7,9)	14.424	141	0.044	0.044	0.346398
6	7 (6)	14.733	168	0.069	0.069	0.261754
7	8 (5,8)	14.917	483	0.512	0.512	0.101880
8	9 (14)	15.480				
9	10 (19)	15.557				
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.290				
13	14 (15,18)	16.422	481	0.135	0.135	0.383997
14	15 (17)	16.507	198	0.135	0.135	0.158294
15	16 (24,27)	16.823	50	0.009	0.009	0.568224
16	17 (16,32)	17.098	434	0.143	0.143	0.328924
17	19 (23,34,54)	17.532				
18	20 (29)	17.713				
19	21 (26)	17.822	86	0.026	0.026	0.350888
20	22 (25)	17.904	76	0.012	0.012	0.705294
21	23 (31)	18.116	857	0.151	0.151	0.613919
22	24 (28,50)	18.169	1048	0.193	0.193	0.586455
23	25 (20,21,33,53)	18.518	668	0.145	0.145	0.496963
24	26 (22,51)	18.756	361	0.106	0.106	0.368009
25	27 (45)	18.983	146	0.033	0.033	0.484763
26	28 (36)	19.120				
27	29 (46)	19.263	67	0.015	0.015	0.492024
28	30 (39)	19.386				

**Peak Results**

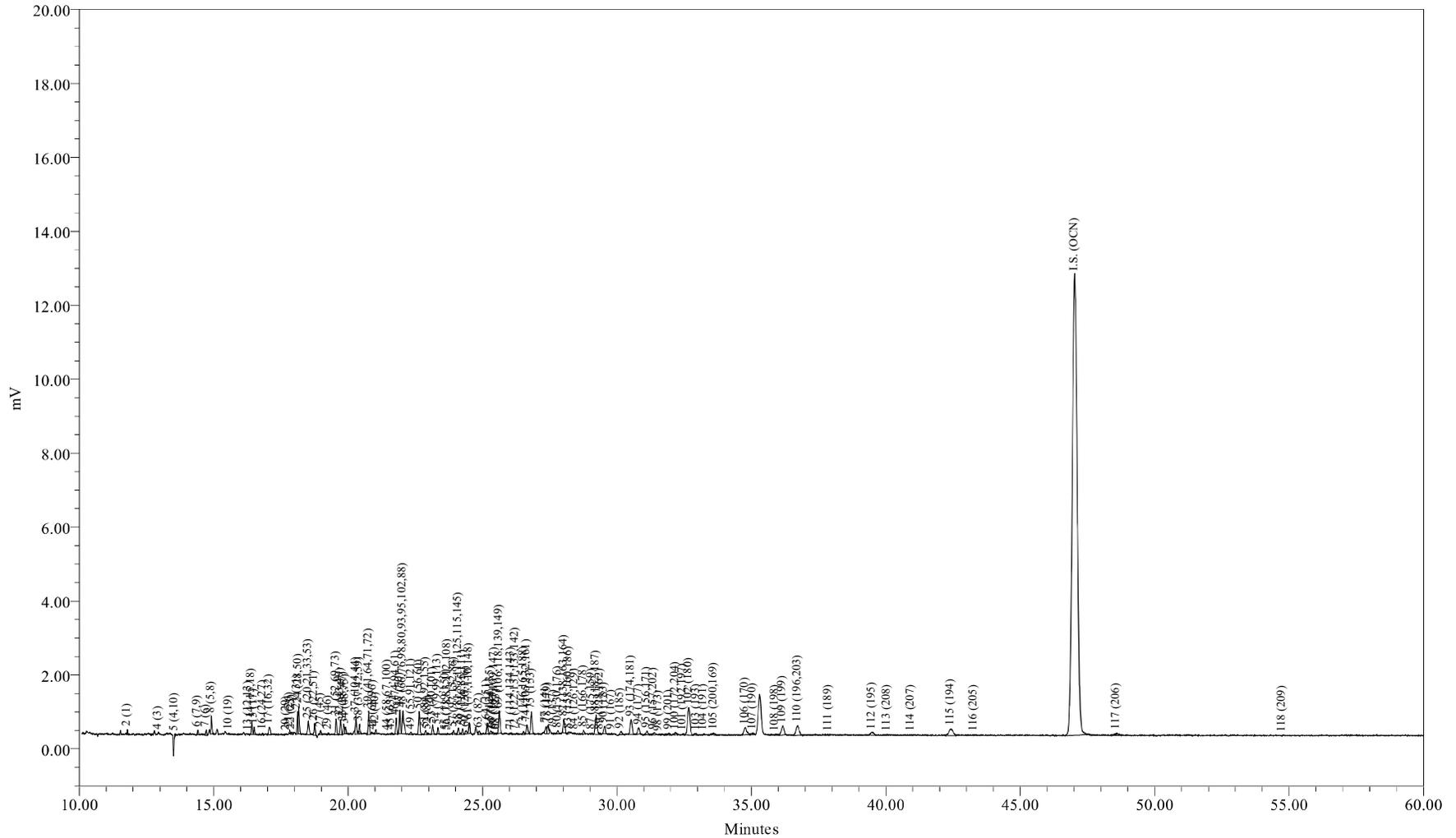
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.556	540	0.174	0.174	0.334493
30	32 (43,49)	19.725	482	0.084	0.084	0.619104
31	33 (38,47)	19.839	464	0.037	0.037	1.370859
32	34 (48,75)	19.888	283	0.037	0.037	0.835028
33	35 (62,65)	20.043				
34	36 (35)	20.126				
35	37 (104,44)	20.293	824	0.157	0.157	0.566170
36	38 (37,42,59)	20.427	404	0.095	0.095	0.458944
37	39 (41,64,71,72)	20.773	1012	0.150	0.150	0.728777
38	41 (68,96)	20.934				
39	42 (40)	21.031	162	0.034	0.034	0.509631
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.455				
42	45 (63)	21.638	66	0.008	0.008	0.932380
43	46 (74,94,61)	21.794	603	0.069	0.069	0.937655
44	47 (70)	21.925	992	0.124	0.124	0.861708
45	48 (66,76,98,80,93,95,102,88)	22.042	1474	0.263	0.263	0.604556
46	49 (55,91,121)	22.362	104	0.019	0.019	0.604177
47	50 (56,60)	22.648	1009	0.128	0.128	0.851587
48	51 (84,92,155)	22.886	180	0.066	0.066	0.295758
49	52 (89)	22.984				
50	53 (90,101)	23.144	373	0.066	0.066	0.612615
51	54 (79,99,113)	23.344	269	0.027	0.027	1.074533
52	55 (119,150)	23.613				
53	56 (78,83,112,108)	23.706				
54	57 (97,152,86)	23.936	149	0.020	0.020	0.788377
55	58 (81,87,117,125,115,145)	24.099	277	0.042	0.042	0.706397
56	59 (116,85,111)	24.257	177	0.026	0.026	0.747611
57	60 (120,136)	24.388	170	0.027	0.027	0.669671
58	61 (77,110,148)	24.513	462	0.078	0.078	0.641252
59	62 (154)	24.788				
60	63 (82)	24.889	151	0.016	0.016	1.016927
61	64 (151)	25.175	475	0.062	0.062	0.825962
62	65 (124,135)	25.294	143	0.011	0.011	1.454327
63	66 (144)	25.383	93	0.022	0.022	0.458432
64	67 (107,109,147)	25.438				
65	68 (123)	25.528				
66	69 (106,118,139,149)	25.625	1242	0.146	0.146	0.917208
67	70 (140)	25.741				
68	71 (114,134,143)	26.015	76	0.007	0.007	1.106105

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.233				
70	73 (146,165,188)	26.540	122	0.014	0.014	0.926113
71	74 (105,132,161)	26.658	515	0.050	0.050	1.123619
72	75 (153)	26.816	1059	0.108	0.108	1.062408
73	76 (127,168,184)	26.932				
74	77 (141)	27.355	378	0.062	0.062	0.656338
75	78 (179)	27.427	359	0.053	0.053	0.726963
76	79 (137)	27.645				
77	80 (130,176)	27.815	167	0.009	0.009	1.894839
78	82 (138,163,164)	28.029	1139	0.099	0.099	1.246194
79	83 (158,160,186)	28.235	132	0.009	0.009	1.557575
80	84 (126,129)	28.423				
81	85 (166,178)	28.760	177	0.040	0.040	0.475544
82	87 (175,159)	29.078				
83	88 (182,187)	29.221	1309	0.132	0.132	1.073924
84	89 (128,162)	29.355				
85	90 (183)	29.548	471	0.062	0.062	0.818987
86	91 (167)	29.825				
87	92 (185)	30.147	240	0.017	0.017	1.509153
88	93 (174,181)	30.531	1132	0.117	0.117	1.045167
89	94 (177)	30.799	528	0.062	0.062	0.916464
90	95 (156,171)	31.115	173	0.029	0.029	0.647711
91	96 (157,202)	31.385	165	0.002	0.002	7.382299
92	98 (173)	31.545				
93	99 (201)	31.942	118	0.014	0.014	0.895254
94	100 (172,204)	32.169	174	0.020	0.020	0.919050
95	101 (192,197)	32.480				
96	102 (180)	32.676	2409	0.223	0.223	1.166489
97	103 (193)	32.942	126	0.015	0.015	0.888579
98	104 (191)	33.226				
99	105 (200,169)	33.581	109	0.016	0.016	0.751066
100	106 (170)	34.773	757	0.047	0.047	1.746600
101	107 (190)	35.080	186	0.015	0.015	1.308494
102	108 (198)	35.919				
103	109 (199)	36.156	886	0.154	0.154	0.622931
104	110 (196,203)	36.718	1130	0.157	0.157	0.776259
105	111 (189)	37.898				
106	112 (195)	39.487	364	0.020	0.020	1.946851
107	113 (208)	40.015				
108	114 (207)	40.966				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.442	1019	0.066	0.066	1.671979
110	116 (205)	43.330	28	0.004	0.004	0.743385
111	I.S. (OCN)	47.034	168429	18.180	18.180	9264.517093
112	117 (206)	48.611	237	0.025	0.025	1.029802
113	118 (209)	54.729				



Sample Name: ICAL0823B  
 Sample ID: ICAL 12.5 ng/mL  
 Date Acquired: 08/23/2009 05:34:46 EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSG\_B\_LL1X\_082309  
 LIMS File ID: GC16-769-4

Sample Name: ICAL0823B

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0823B Sample Amount: 1  
 Sample ID: ICAL 12.5 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 05:34:46 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:24 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:06:44 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-4

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	253	0.877	0.877	0.032835
2	3 (2)	12.830				
3	4 (3)	12.936	76	0.512	0.512	0.016975
4	5 (4,10)	13.556	127	0.249	0.249	0.058221
5	6 (7,9)	14.408	326	0.088	0.088	0.423230
6	7 (6)	14.728	361	0.139	0.139	0.295591
7	8 (5,8)	14.915	1186	1.023	1.023	0.131906
8	9 (14)	15.480				
9	10 (19)	15.563	69	0.020	0.020	0.384454
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.297	42	0.020	0.020	0.245194
13	14 (15,18)	16.421	908	0.270	0.270	0.382202
14	15 (17)	16.505	443	0.270	0.270	0.186421
15	16 (24,27)	16.825	90	0.019	0.019	0.541246
16	17 (16,32)	17.070	896	0.285	0.285	0.357916
17	19 (23,34,54)	17.532				
18	20 (29)	17.706	21	0.004	0.004	0.619883
19	21 (26)	17.829	186	0.053	0.053	0.401916
20	22 (25)	17.903	133	0.023	0.023	0.647251
21	23 (31)	18.115	1463	0.301	0.301	0.552787
22	24 (28,50)	18.165	2075	0.386	0.386	0.612478
23	25 (20,21,33,53)	18.521	1273	0.290	0.290	0.499220
24	26 (22,51)	18.754	917	0.212	0.212	0.492274
25	27 (45)	18.976	287	0.065	0.065	0.501787
26	28 (36)	19.120				
27	29 (46)	19.264	135	0.029	0.029	0.526016
28	30 (39)	19.386				

**Peak Results**

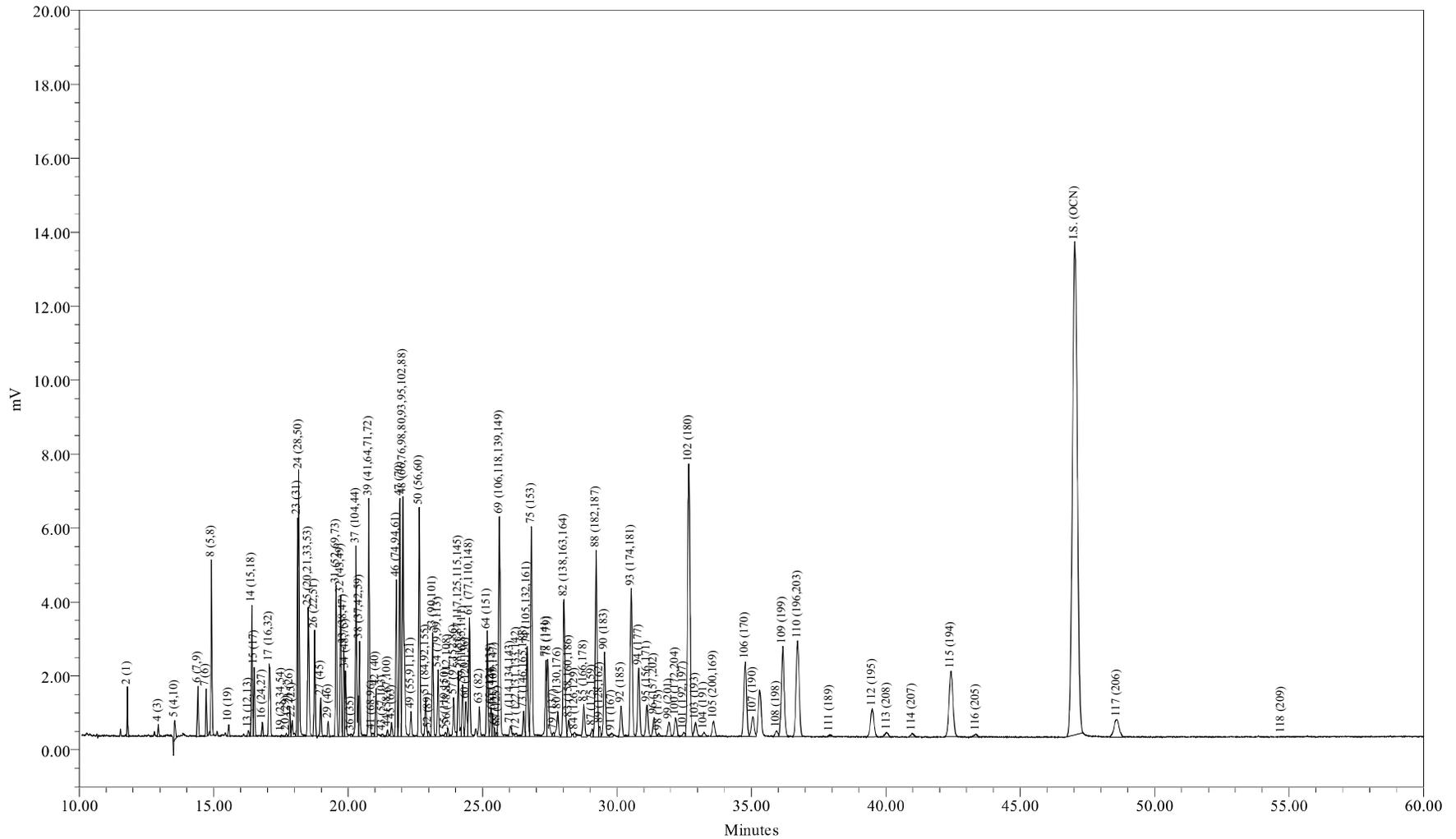
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552	1183	0.349	0.349	0.386396
30	32 (43,49)	19.719	1142	0.168	0.168	0.773561
31	33 (38,47)	19.834	777	0.073	0.073	1.209542
32	34 (48,75)	19.897	512	0.073	0.073	0.797278
33	35 (62,65)	20.043				
34	36 (35)	20.126				
35	37 (104,44)	20.292	1654	0.314	0.314	0.599105
36	38 (37,42,59)	20.424	771	0.190	0.190	0.462088
37	39 (41,64,71,72)	20.769	2023	0.300	0.300	0.768393
38	41 (68,96)	20.934	19			
39	42 (40)	21.032	307	0.069	0.069	0.508090
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.465	50	0.008	0.008	0.707261
42	45 (63)	21.615	108	0.015	0.015	0.798336
43	46 (74,94,61)	21.789	1223	0.139	0.139	1.002220
44	47 (70)	21.921	1831	0.249	0.249	0.838909
45	48 (66,76,98,80,93,95,102,88)	22.040	2633	0.526	0.526	0.569632
46	49 (55,91,121)	22.351	191	0.037	0.037	0.582925
47	50 (56,60)	22.649	1984	0.256	0.256	0.882795
48	51 (84,92,155)	22.880	363	0.132	0.132	0.314144
49	52 (89)	22.969	43	0.007	0.007	0.673304
50	53 (90,101)	23.139	745	0.132	0.132	0.644667
51	54 (79,99,113)	23.337	452	0.054	0.054	0.951802
52	55 (119,150)	23.638	33	0.002	0.002	1.818614
53	56 (78,83,112,108)	23.701	57	0.011	0.011	0.593047
54	57 (97,152,86)	23.925	318	0.041	0.041	0.885705
55	58 (81,87,117,125,115,145)	24.101	612	0.085	0.085	0.822042
56	59 (116,85,111)	24.253	418	0.051	0.051	0.930743
57	60 (120,136)	24.386	359	0.055	0.055	0.745420
58	61 (77,110,148)	24.507	863	0.156	0.156	0.630980
59	62 (154)	24.788				
60	63 (82)	24.871	321	0.032	0.032	1.134854
61	64 (151)	25.171	894	0.124	0.124	0.818899
62	65 (124,135)	25.301	277	0.021	0.021	1.487540
63	66 (144)	25.374	199	0.044	0.044	0.515840
64	67 (107,109,147)	25.442	58	0.009	0.009	0.690004
65	68 (123)	25.525	28			
66	69 (106,118,139,149)	25.622	2273	0.292	0.292	0.884858
67	70 (140)	25.741				
68	71 (114,134,143)	26.054	133	0.015	0.015	1.022079

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.226	36	0.002	0.002	1.909577
70	73 (146,165,188)	26.536	228	0.029	0.029	0.909918
71	74 (105,132,161)	26.652	965	0.099	0.099	1.108849
72	75 (153)	26.819	2152	0.215	0.215	1.137977
73	76 (127,168,184)	26.932				
74	77 (141)	27.358	721	0.124	0.124	0.660579
75	78 (179)	27.425	816	0.107	0.107	0.870319
76	79 (137)	27.643	42	0.005	0.005	0.881047
77	80 (130,176)	27.802	324	0.019	0.019	1.943213
78	82 (138,163,164)	28.027	1547	0.197	0.197	0.892152
79	83 (158,160,186)	28.205	233	0.018	0.018	1.451698
80	84 (126,129)	28.430	50	0.001	0.001	6.007449
81	85 (166,178)	28.757	376	0.080	0.080	0.532805
82	87 (175,159)	29.071	75	0.015	0.015	0.581956
83	88 (182,187)	29.226	2471	0.263	0.263	1.068903
84	89 (128,162)	29.379	89	0.007	0.007	1.389781
85	90 (183)	29.528	833	0.124	0.124	0.763510
86	91 (167)	29.799	49	0.004	0.004	1.558518
87	92 (185)	30.137	413	0.034	0.034	1.367680
88	93 (174,181)	30.529	1976	0.234	0.234	0.961705
89	94 (177)	30.812	812	0.124	0.124	0.744351
90	95 (156,171)	31.120	449	0.058	0.058	0.885260
91	96 (157,202)	31.371	296	0.005	0.005	6.985274
92	98 (173)	31.550	36	0.003	0.003	1.489567
93	99 (201)	31.924	214	0.029	0.029	0.853033
94	100 (172,204)	32.177	314	0.041	0.041	0.874241
95	101 (192,197)	32.456	62	0.008	0.008	0.880843
96	102 (180)	32.668	4629	0.446	0.446	1.181870
97	103 (193)	32.960	238	0.031	0.031	0.882562
98	104 (191)	33.229	68	0.009	0.009	0.882789
99	105 (200,169)	33.603	272	0.031	0.031	0.985890
100	106 (170)	34.773	1412	0.094	0.094	1.717970
101	107 (190)	35.048	344	0.031	0.031	1.276878
102	108 (198)	35.892	125	0.009	0.009	1.621528
103	109 (199)	36.163	1687	0.307	0.307	0.625734
104	110 (196,203)	36.721	2013	0.314	0.314	0.728915
105	111 (189)	37.883	37	0.003	0.003	1.439485
106	112 (195)	39.491	555	0.040	0.040	1.564712
107	113 (208)	40.056	105	0.018	0.018	0.664993
108	114 (207)	40.942	72	0.007	0.007	1.202962

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.407	2060	0.132	0.132	1.782264
110	116 (205)	43.285	62	0.008	0.008	0.882512
111	I.S. (OCN)	47.029	159698	18.180	18.180	8784.251140
112	117 (206)	48.580	629	0.050	0.050	1.440221
113	118 (209)	54.738	8	0.001	0.001	1.033291



Sample Name: ICAL0823C  
Sample ID: ICAL 125 ng/mL  
Date Acquired: 08/23/2009 06:42:13 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-5

Sample Name: ICAL0823C

1 of 1



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 www.nealab.com

Sample Name: ICAL0823C Sample Amount: 1  
 Sample ID: ICAL 125 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 06:42:13 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:44:54 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:06:52 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-5

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	2398	8.771	8.771	0.029210
2	3 (2)	12.830				
3	4 (3)	12.937	773	5.117	5.117	0.016147
4	5 (4,10)	13.547	1585	2.485	2.485	0.068134
5	6 (7,9)	14.413	3939	0.877	0.877	0.479796
6	7 (6)	14.722	2938	1.389	1.389	0.226028
7	8 (5,8)	14.915	11729	10.233	10.233	0.122440
8	9 (14)	15.480				
9	10 (19)	15.559	760	0.205	0.205	0.396596
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.297	507	0.195	0.195	0.277784
13	14 (15,18)	16.422	10012	2.704	2.704	0.395495
14	15 (17)	16.508	4916	2.704	2.704	0.194169
15	16 (24,27)	16.808	953	0.190	0.190	0.535960
16	17 (16,32)	17.064	8910	2.851	2.851	0.333910
17	19 (23,34,54)	17.524	306			
18	20 (29)	17.705	259	0.039	0.039	0.712928
19	21 (26)	17.831	2232	0.526	0.526	0.453098
20	22 (25)	17.917	1596	0.234	0.234	0.728734
21	23 (31)	18.116	15038	3.014	3.014	0.533093
22	24 (28,50)	18.167	21524	3.857	3.857	0.596122
23	25 (20,21,33,53)	18.519	12375	2.903	2.903	0.455367
24	26 (22,51)	18.751	8207	2.120	2.120	0.413615
25	27 (45)	18.980	3055	0.650	0.650	0.501694
26	28 (36)	19.120				
27	29 (46)	19.257	1343	0.292	0.292	0.490549
28	30 (39)	19.386				

**Peak Results**

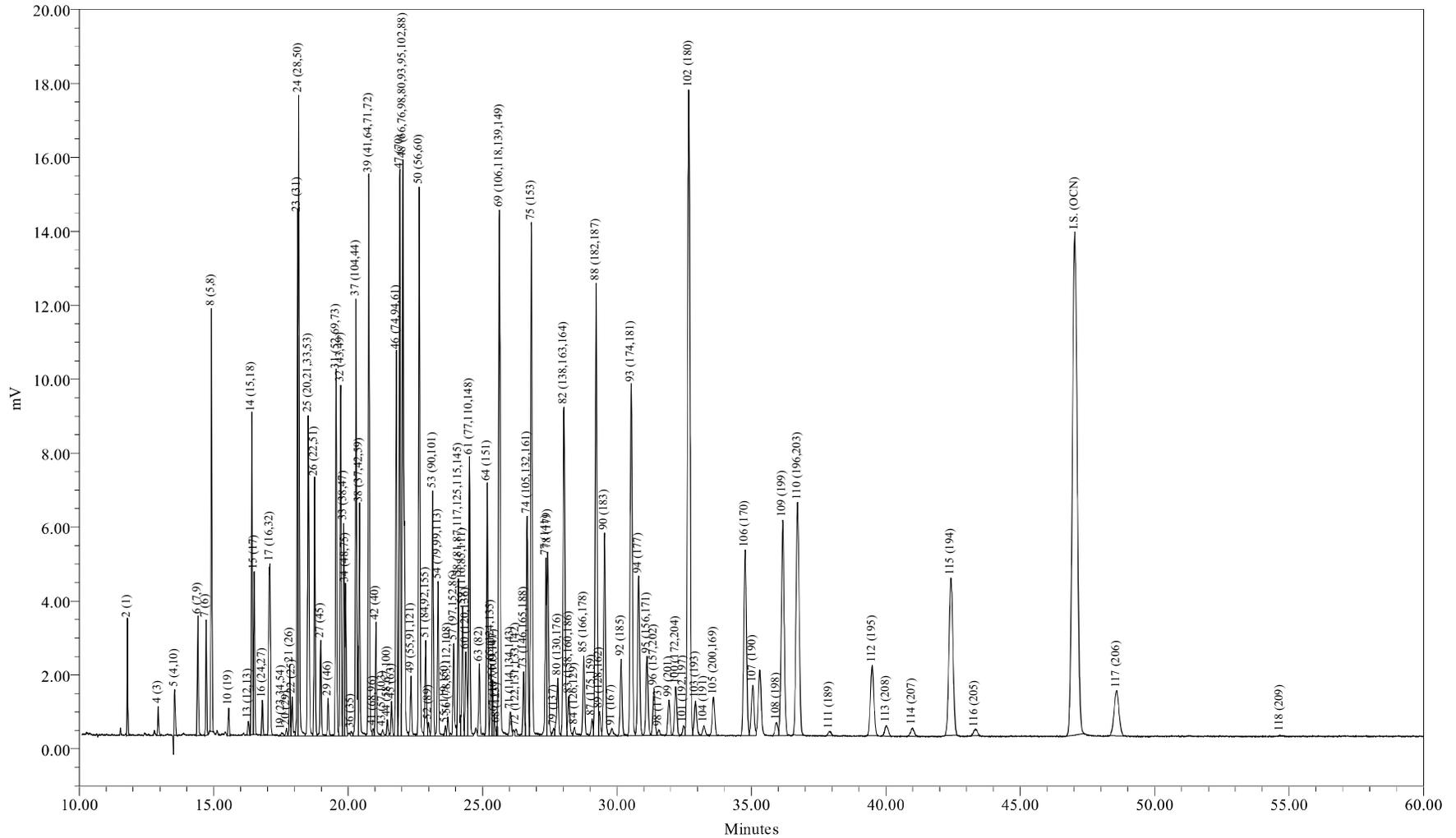
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.551	12339	3.487	3.487	0.378059
30	32 (43,49)	19.721	11548	1.681	1.681	0.733789
31	33 (38,47)	19.837	6966	0.731	0.731	1.017967
32	34 (48,75)	19.899	5358	0.731	0.731	0.783002
33	35 (62,65)	20.043				
34	36 (35)	20.114	293			
35	37 (104,44)	20.293	17122	3.143	3.143	0.581960
36	38 (37,42,59)	20.424	8310	1.901	1.901	0.467121
37	39 (41,64,71,72)	20.771	20536	2.997	2.997	0.732026
38	41 (68,96)	20.877	498			
39	42 (40)	21.034	3894	0.687	0.687	0.605440
40	43 (57,103)	21.281	371			
41	44 (58,67,100)	21.465	540	0.080	0.080	0.717802
42	45 (63)	21.619	1260	0.154	0.154	0.876852
43	46 (74,94,61)	21.792	13389	1.389	1.389	1.029904
44	47 (70)	21.923	19775	2.485	2.485	0.850054
45	48 (66,76,98,80,93,95,102,88)	22.041	28071	5.263	5.263	0.569828
46	49 (55,91,121)	22.339	2445	0.373	0.373	0.700596
47	50 (56,60)	22.649	19933	2.558	2.558	0.832386
48	51 (84,92,155)	22.884	4205	1.316	1.316	0.341422
49	52 (89)	22.991	541	0.073	0.073	0.790446
50	53 (90,101)	23.146	9099	1.316	1.316	0.738803
51	54 (79,99,113)	23.341	5774	0.541	0.541	1.140390
52	55 (119,150)	23.616	409	0.020	0.020	2.131712
53	56 (78,83,112,108)	23.711	743	0.110	0.110	0.724203
54	57 (97,152,86)	23.926	4054	0.409	0.409	1.058072
55	58 (81,87,117,125,115,145)	24.101	6385	0.848	0.848	0.804478
56	59 (116,85,111)	24.254	4674	0.512	0.512	0.975828
57	60 (120,136)	24.377	4105	0.548	0.548	0.800029
58	61 (77,110,148)	24.510	10698	1.557	1.557	0.734106
59	62 (154)	24.788				
60	63 (82)	24.877	3165	0.322	0.322	1.051477
61	64 (151)	25.174	9480	1.243	1.243	0.815021
62	65 (124,135)	25.313	2791	0.212	0.212	1.406136
63	66 (144)	25.373	2118	0.439	0.439	0.515858
64	67 (107,109,147)	25.440	633	0.095	0.095	0.711530
65	68 (123)	25.553	394			
66	69 (106,118,139,149)	25.626	25034	2.924	2.924	0.914679
67	70 (140)	25.741				
68	71 (114,134,143)	26.031	1544	0.148	0.148	1.117389

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.257	436	0.021	0.021	2.188855
70	73 (146,165,188)	26.529	2910	0.285	0.285	1.090203
71	74 (105,132,161)	26.661	10689	0.990	0.990	1.153027
72	75 (153)	26.819	22709	2.153	2.153	1.126951
73	76 (127,168,184)	26.932				
74	77 (141)	27.358	8379	1.243	1.243	0.720416
75	78 (179)	27.428	9092	1.067	1.067	0.910090
76	79 (137)	27.638	437	0.055	0.055	0.852217
77	80 (130,176)	27.795	3591	0.190	0.190	2.019416
78	82 (138,163,164)	28.026	18675	1.974	1.974	1.010861
79	83 (158,160,186)	28.211	2323	0.183	0.183	1.358386
80	84 (126,129)	28.430	636	0.009	0.009	7.182843
81	85 (166,178)	28.764	4326	0.804	0.804	0.574829
82	87 (175,159)	29.075	1005	0.146	0.146	0.734180
83	88 (182,187)	29.224	24307	2.631	2.631	0.986819
84	89 (128,162)	29.357	1213	0.073	0.073	1.772792
85	90 (183)	29.534	11417	1.243	1.243	0.981578
86	91 (167)	29.800	626	0.036	0.036	1.865307
87	92 (185)	30.151	4593	0.343	0.343	1.428605
88	93 (174,181)	30.532	20869	2.339	2.339	0.953185
89	94 (177)	30.809	9932	1.243	1.243	0.853863
90	95 (156,171)	31.120	4918	0.578	0.578	0.909689
91	96 (157,202)	31.382	2846	0.048	0.048	6.297338
92	98 (173)	31.561	384	0.028	0.028	1.476009
93	99 (201)	31.930	2286	0.285	0.285	0.856582
94	100 (172,204)	32.178	3139	0.409	0.409	0.819298
95	101 (192,197)	32.479	643	0.080	0.080	0.854574
96	102 (180)	32.671	45419	4.459	4.459	1.088211
97	103 (193)	32.925	2610	0.307	0.307	0.908205
98	104 (191)	33.241	761	0.088	0.088	0.926962
99	105 (200,169)	33.598	2658	0.314	0.314	0.903351
100	106 (170)	34.773	14191	0.936	0.936	1.620384
101	107 (190)	35.052	3904	0.307	0.307	1.358495
102	108 (198)	35.932	1095	0.088	0.088	1.334339
103	109 (199)	36.169	18386	3.070	3.070	0.639792
104	110 (196,203)	36.721	20320	3.143	3.143	0.690651
105	111 (189)	37.915	416	0.029	0.029	1.522675
106	112 (195)	39.497	6855	0.404	0.404	1.812150
107	113 (208)	40.047	1169	0.180	0.180	0.691812
108	114 (207)	40.982	797	0.068	0.068	1.252099

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.427	18103	1.316	1.316	1.469936
110	116 (205)	43.353	676	0.080	0.080	0.898096
111	I.S. (OCN)	47.026	170177	18.180	18.180	9360.685917
112	117 (206)	48.598	6660	0.497	0.497	1.431730
113	118 (209)	54.712	78	0.009	0.009	0.943801



Sample Name: ICAL0823D  
 Sample ID: ICAL 314 ng/mL  
 Date Acquired: 08/23/2009 07:49:33 EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_082309  
 LIMS File ID: GC16-769-6

Sample Name: ICAL0823D

1 of 1



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0823D Sample Amount: 1  
 Sample ID: ICAL 314 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 07:49:33 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:27 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:07:09 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-6

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	5871	21.928	21.928	0.028105
2	3 (2)	12.830				
3	4 (3)	12.934	1761	12.792	12.792	0.014452
4	5 (4,10)	13.546	3392	6.213	6.213	0.057309
5	6 (7,9)	14.413	9480	2.193	2.193	0.453855
6	7 (6)	14.723	7236	3.472	3.472	0.218794
7	8 (5,8)	14.914	27999	25.583	25.583	0.114890
8	9 (14)	15.480				
9	10 (19)	15.558	1860	0.512	0.512	0.381476
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.289	1337	0.488	0.488	0.287784
13	14 (15,18)	16.420	24156	6.761	6.761	0.375045
14	15 (17)	16.508	11681	6.761	6.761	0.181353
15	16 (24,27)	16.808	2578	0.475	0.475	0.569882
16	17 (16,32)	17.092	21419	7.127	7.127	0.315497
17	19 (23,34,54)	17.524	566			
18	20 (29)	17.708	618	0.097	0.097	0.668511
19	21 (26)	17.832	5326	1.316	1.316	0.424895
20	22 (25)	17.915	3459	0.585	0.585	0.620919
21	23 (31)	18.114	36748	7.534	7.534	0.512021
22	24 (28,50)	18.165	51487	9.643	9.643	0.560491
23	25 (20,21,33,53)	18.518	30563	7.258	7.258	0.442032
24	26 (22,51)	18.750	20553	5.300	5.300	0.407109
25	27 (45)	18.979	7857	1.626	1.626	0.507222
26	28 (36)	19.120				
27	29 (46)	19.254	3163	0.731	0.731	0.454125
28	30 (39)	19.386				

**Peak Results**

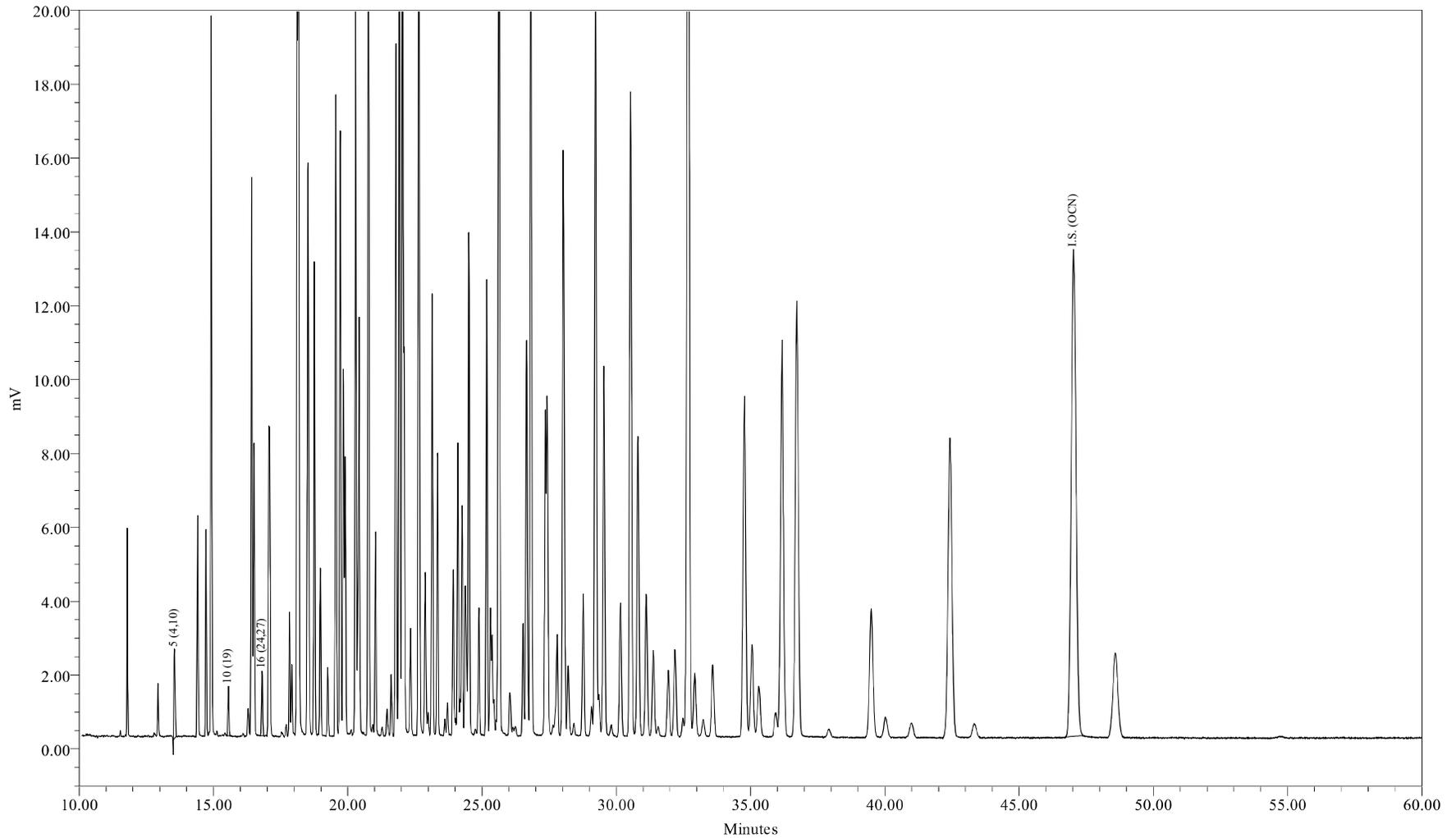
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552	29508	8.716	8.716	0.355374
30	32 (43,49)	19.722	27812	4.203	4.203	0.694636
31	33 (38,47)	19.837	16560	1.828	1.828	0.951170
32	34 (48,75)	19.899	12258	1.828	1.828	0.704106
33	35 (62,65)	20.043				
34	36 (35)	20.117	555			
35	37 (104,44)	20.292	40168	7.858	7.858	0.536620
36	38 (37,42,59)	20.422	20397	4.751	4.751	0.450655
37	39 (41,64,71,72)	20.771	49428	7.492	7.492	0.692542
38	41 (68,96)	20.929	646			
39	42 (40)	21.034	9798	1.718	1.718	0.598785
40	43 (57,103)	21.287	736			
41	44 (58,67,100)	21.460	1520	0.201	0.201	0.793915
42	45 (63)	21.618	2969	0.384	0.384	0.812281
43	46 (74,94,61)	21.791	32728	3.472	3.472	0.989533
44	47 (70)	21.922	47320	6.213	6.213	0.799532
45	48 (66,76,98,80,93,95,102,88)	22.039	66945	13.157	13.157	0.534135
46	49 (55,91,121)	22.339	5962	0.932	0.932	0.671497
47	50 (56,60)	22.645	48747	6.396	6.396	0.800105
48	51 (84,92,155)	22.883	10007	3.289	3.289	0.319375
49	52 (89)	22.987	1248	0.183	0.183	0.717089
50	53 (90,101)	23.145	21346	3.289	3.289	0.681254
51	54 (79,99,113)	23.340	13958	1.352	1.352	1.083548
52	55 (119,150)	23.620	891	0.051	0.051	1.826349
53	56 (78,83,112,108)	23.712	1775	0.274	0.274	0.680132
54	57 (97,152,86)	23.926	9233	1.023	1.023	0.947302
55	58 (81,87,117,125,115,145)	24.100	14982	2.120	2.120	0.741962
56	59 (116,85,111)	24.255	11467	1.279	1.279	0.940917
57	60 (120,136)	24.377	9893	1.370	1.370	0.757777
58	61 (77,110,148)	24.510	25343	3.892	3.892	0.683526
59	62 (154)	24.788				
60	63 (82)	24.877	6897	0.804	0.804	0.900550
61	64 (151)	25.175	22468	3.106	3.106	0.759250
62	65 (124,135)	25.308	6284	0.530	0.530	1.244419
63	66 (144)	25.373	5226	1.097	1.097	0.500279
64	67 (107,109,147)	25.437	1743	0.237	0.237	0.770566
65	68 (123)	25.530	719			
66	69 (106,118,139,149)	25.625	58526	7.309	7.309	0.840525
67	70 (140)	25.741				
68	71 (114,134,143)	26.037	3329	0.369	0.369	0.947250

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.241	1018	0.053	0.053	2.009293
70	73 (146,165,188)	26.530	6378	0.713	0.713	0.939225
71	74 (105,132,161)	26.660	25528	2.476	2.476	1.082338
72	75 (153)	26.817	52890	5.382	5.382	1.031638
73	76 (127,168,184)	26.932				
74	77 (141)	27.359	19114	3.106	3.106	0.645898
75	78 (179)	27.426	20074	2.668	2.668	0.789843
76	79 (137)	27.647	1090	0.137	0.137	0.835262
77	80 (130,176)	27.795	7836	0.475	0.475	1.732219
78	82 (138,163,164)	28.026	44879	4.964	4.964	0.949063
79	83 (158,160,186)	28.209	5169	0.457	0.457	1.188130
80	84 (126,129)	28.417	1593	0.024	0.024	7.071409
81	85 (166,178)	28.765	10206	2.010	2.010	0.533033
82	87 (175,159)	29.070	2269	0.366	0.366	0.651759
83	88 (182,187)	29.223	58646	6.578	6.578	0.935849
84	89 (128,162)	29.344	2706	0.183	0.183	1.554016
85	90 (183)	29.535	26713	3.106	3.106	0.902713
86	91 (167)	29.803	1522	0.090	0.090	1.782484
87	92 (185)	30.153	10754	0.859	0.859	1.314779
88	93 (174,181)	30.531	50588	5.847	5.847	0.908188
89	94 (177)	30.806	23729	3.106	3.106	0.801864
90	95 (156,171)	31.118	11914	1.444	1.444	0.866166
91	96 (157,202)	31.381	6937	0.121	0.121	6.033590
92	98 (173)	31.558	806	0.069	0.069	1.218267
93	99 (201)	31.933	5439	0.713	0.713	0.801005
94	100 (172,204)	32.188	7656	1.023	1.023	0.785456
95	101 (192,197)	32.475	1489	0.201	0.201	0.777560
96	102 (180)	32.669	110036	11.147	11.147	1.036246
97	103 (193)	32.920	6258	0.768	0.768	0.855976
98	104 (191)	33.236	1879	0.219	0.219	0.899561
99	105 (200,169)	33.593	6765	0.786	0.786	0.903833
100	106 (170)	34.767	35205	2.339	2.339	1.580043
101	107 (190)	35.048	9799	0.768	0.768	1.340224
102	108 (198)	35.933	2677	0.219	0.219	1.282073
103	109 (199)	36.164	44260	7.675	7.675	0.605368
104	110 (196,203)	36.718	49389	7.858	7.858	0.659811
105	111 (189)	37.905	942	0.073	0.073	1.355694
106	112 (195)	39.496	16863	1.010	1.010	1.752089
107	113 (208)	40.024	2652	0.451	0.451	0.616906
108	114 (207)	40.986	2139	0.170	0.170	1.321091

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.422	44395	3.289	3.289	1.416871
110	116 (205)	43.309	1708	0.201	0.201	0.892335
111	I.S. (OCN)	47.032	173183	18.180	18.180	9526.041452
112	117 (206)	48.593	15813	1.242	1.242	1.336120
113	118 (209)	54.659	244	0.022	0.022	1.157604



Sample Name: ICAL0823E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 08/23/2009 08:56:52 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-7

Sample Name: ICAL0823E

1 of 1



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0823E Sample Amount: 1  
 Sample ID: ICAL 627 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 08:56:52 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:29 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:07:18 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-7

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.789				
2	3 (2)	12.830				
3	4 (3)	12.934				
4	5 (4,10)	13.546	6942	12.426	12.426	0.061254
5	6 (7,9)	14.409				
6	7 (6)	14.721				
7	8 (5,8)	14.914				
8	9 (14)	15.480				
9	10 (19)	15.558	3189	1.024	1.024	0.341546
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.290				
13	14 (15,18)	16.422				
14	15 (17)	16.508				
15	16 (24,27)	16.810	4817	0.950	0.950	0.556099
16	17 (16,32)	17.077				
17	19 (23,34,54)	17.532				
18	20 (29)	17.713				
19	21 (26)	17.830				
20	22 (25)	17.916				
21	23 (31)	18.115				
22	24 (28,50)	18.164				
23	25 (20,21,33,53)	18.519				
24	26 (22,51)	18.752				
25	27 (45)	18.980				
26	28 (36)	19.120				
27	29 (46)	19.255				
28	30 (39)	19.386				

**Peak Results**

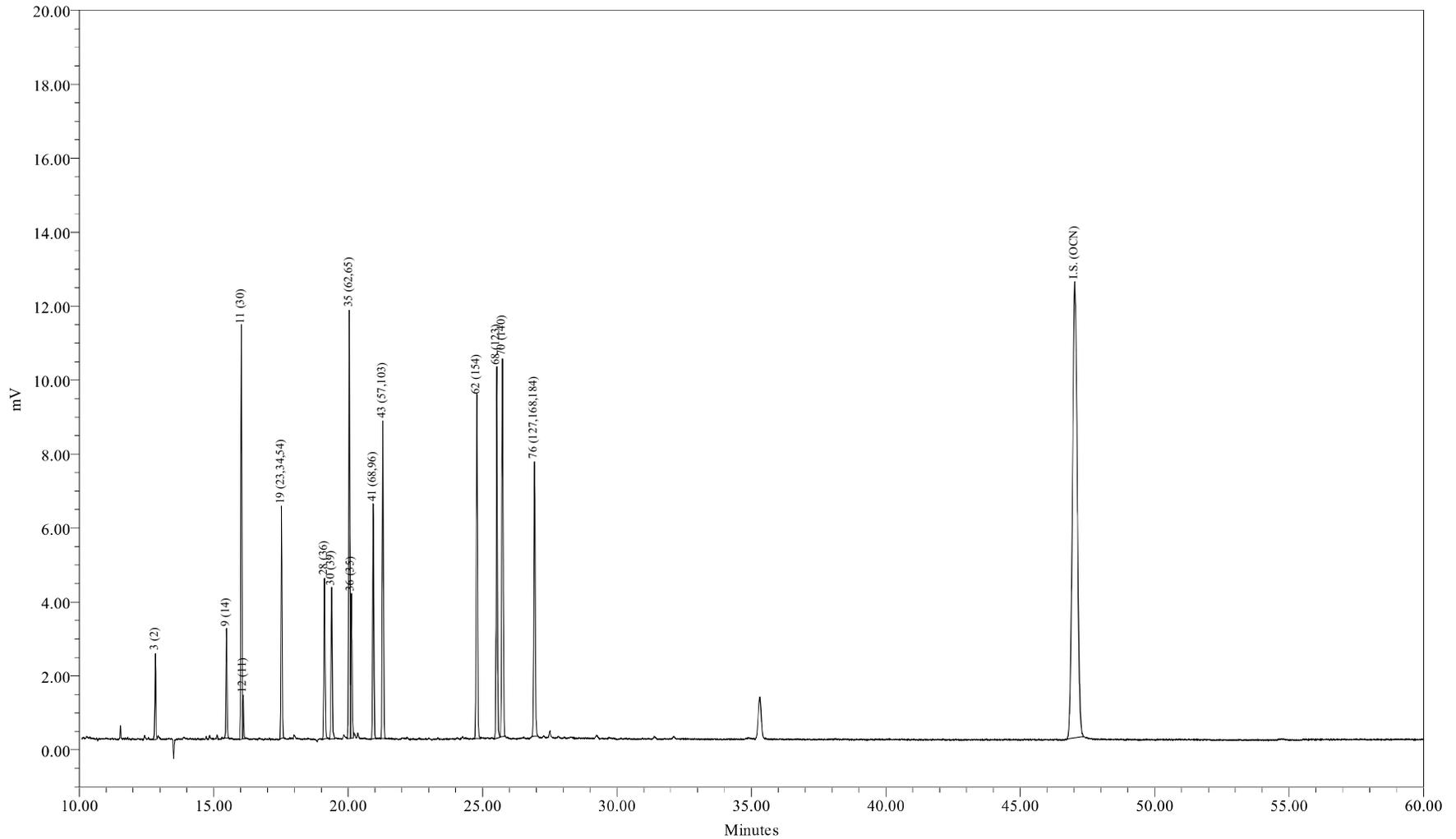
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552				
30	32 (43,49)	19.719				
31	33 (38,47)	19.836				
32	34 (48,75)	19.900				
33	35 (62,65)	20.043				
34	36 (35)	20.126				
35	37 (104,44)	20.292				
36	38 (37,42,59)	20.426				
37	39 (41,64,71,72)	20.770				
38	41 (68,96)	20.934				
39	42 (40)	21.035				
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.455				
42	45 (63)	21.616				
43	46 (74,94,61)	21.791				
44	47 (70)	21.923				
45	48 (66,76,98,80,93,95,102,88)	22.042				
46	49 (55,91,121)	22.335				
47	50 (56,60)	22.642				
48	51 (84,92,155)	22.879				
49	52 (89)	22.984				
50	53 (90,101)	23.139				
51	54 (79,99,113)	23.337				
52	55 (119,150)	23.613				
53	56 (78,83,112,108)	23.706				
54	57 (97,152,86)	23.930				
55	58 (81,87,117,125,115,145)	24.099				
56	59 (116,85,111)	24.256				
57	60 (120,136)	24.380				
58	61 (77,110,148)	24.506				
59	62 (154)	24.788				
60	63 (82)	24.873				
61	64 (151)	25.170				
62	65 (124,135)	25.303				
63	66 (144)	25.373				
64	67 (107,109,147)	25.438				
65	68 (123)	25.528				
66	69 (106,118,139,149)	25.623				
67	70 (140)	25.741				
68	71 (114,134,143)	26.040				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.233				
70	73 (146,165,188)	26.523				
71	74 (105,132,161)	26.664				
72	75 (153)	26.821				
73	76 (127,168,184)	26.932				
74	77 (141)	27.352				
75	78 (179)	27.423				
76	79 (137)	27.645				
77	80 (130,176)	27.795				
78	82 (138,163,164)	28.023				
79	83 (158,160,186)	28.213				
80	84 (126,129)	28.423				
81	85 (166,178)	28.766				
82	87 (175,159)	29.078				
83	88 (182,187)	29.222				
84	89 (128,162)	29.355				
85	90 (183)	29.534				
86	91 (167)	29.825				
87	92 (185)	30.153				
88	93 (174,181)	30.528				
89	94 (177)	30.807				
90	95 (156,171)	31.108				
91	96 (157,202)	31.378				
92	98 (173)	31.545				
93	99 (201)	31.924				
94	100 (172,204)	32.182				
95	101 (192,197)	32.480				
96	102 (180)	32.666				
97	103 (193)	32.919				
98	104 (191)	33.226				
99	105 (200,169)	33.578				
100	106 (170)	34.765				
101	107 (190)	35.040				
102	108 (198)	35.919				
103	109 (199)	36.162				
104	110 (196,203)	36.710				
105	111 (189)	37.898				
106	112 (195)	39.493				
107	113 (208)	40.015				
108	114 (207)	40.966				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.421				
110	116 (205)	43.318				
111	I.S. (OCN)	47.028	165807	18.180	18.180	9120.293904
112	117 (206)	48.573				
113	118 (209)	54.729				



Sample Name: SC0823A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 08/23/2009 11:11:32 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-9

Sample Name: SC0823A

1 of 1



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: SC0823A Sample Amount: 1  
 Sample ID: SUP CONG STD 200/5 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 11:11:32 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:31 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:07:30 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-9

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.789				
2	3 (2)	12.830	4953	200.000	200.000	0.002899
3	4 (3)	12.934				
4	5 (4,10)	13.545				
5	6 (7,9)	14.409				
6	7 (6)	14.721				
7	8 (5,8)	14.914				
8	9 (14)	15.479	7556	5.000	5.000	0.176869
9	10 (19)	15.557				
10	11 (30)	16.030	28410	5.000	5.000	0.665040
11	12 (11)	16.092	2772	5.000	5.000	0.064897
12	13 (12,13)	16.290				
13	14 (15,18)	16.422				
14	15 (17)	16.508				
15	16 (24,27)	16.808				
16	17 (16,32)	17.077				
17	19 (23,34,54)	17.525	16956	5.000	5.000	0.396913
18	20 (29)	17.713				
19	21 (26)	17.830				
20	22 (25)	17.916				
21	23 (31)	18.115				
22	24 (28,50)	18.164				
23	25 (20,21,33,53)	18.519				
24	26 (22,51)	18.752				
25	27 (45)	18.980				
26	28 (36)	19.120	12881	5.000	5.000	0.301528
27	29 (46)	19.255				
28	30 (39)	19.384	12749	5.000	5.000	0.298422

**Peak Results**

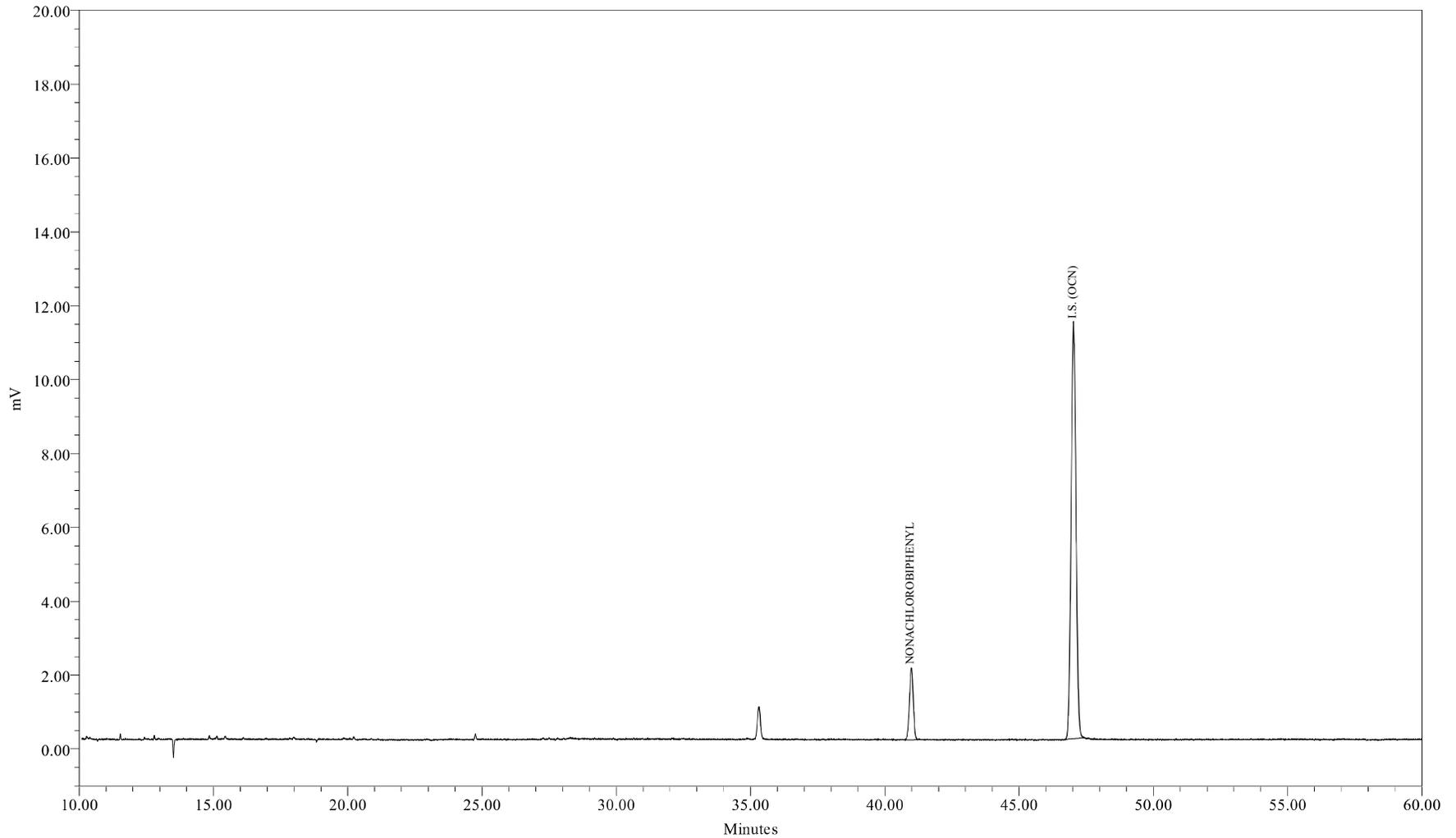
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552				
30	32 (43,49)	19.719				
31	33 (38,47)	19.836				
32	34 (48,75)	19.900				
33	35 (62,65)	20.043	33632	5.000	5.000	0.787266
34	36 (35)	20.125	12016	5.000	5.000	0.281286
35	37 (104,44)	20.292				
36	38 (37,42,59)	20.426				
37	39 (41,64,71,72)	20.770				
38	41 (68,96)	20.936	18945	5.000	5.000	0.443464
39	42 (40)	21.035				
40	43 (57,103)	21.292	25879	5.000	5.000	0.605790
41	44 (58,67,100)	21.455				
42	45 (63)	21.616				
43	46 (74,94,61)	21.791				
44	47 (70)	21.923				
45	48 (66,76,98,80,93,95,102,88)	22.042				
46	49 (55,91,121)	22.335				
47	50 (56,60)	22.642				
48	51 (84,92,155)	22.879				
49	52 (89)	22.984				
50	53 (90,101)	23.139				
51	54 (79,99,113)	23.337				
52	55 (119,150)	23.613				
53	56 (78,83,112,108)	23.706				
54	57 (97,152,86)	23.930				
55	58 (81,87,117,125,115,145)	24.099				
56	59 (116,85,111)	24.256				
57	60 (120,136)	24.380				
58	61 (77,110,148)	24.506				
59	62 (154)	24.789	30387	5.000	5.000	0.711303
60	63 (82)	24.873				
61	64 (151)	25.170				
62	65 (124,135)	25.303				
63	66 (144)	25.373				
64	67 (107,109,147)	25.438				
65	68 (123)	25.530	32876	5.000	5.000	0.769564
66	69 (106,118,139,149)	25.623				
67	70 (140)	25.740	34766	5.000	5.000	0.813822
68	71 (114,134,143)	26.040				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.233				
70	73 (146,165,188)	26.523				
71	74 (105,132,161)	26.664				
72	75 (153)	26.821				
73	76 (127,168,184)	26.932	28307	5.000	5.000	0.662615
74	77 (141)	27.352				
75	78 (179)	27.423				
76	79 (137)	27.645				
77	80 (130,176)	27.795				
78	82 (138,163,164)	28.023				
79	83 (158,160,186)	28.213				
80	84 (126,129)	28.423				
81	85 (166,178)	28.766				
82	87 (175,159)	29.078				
83	88 (182,187)	29.222				
84	89 (128,162)	29.355				
85	90 (183)	29.534				
86	91 (167)	29.825				
87	92 (185)	30.153				
88	93 (174,181)	30.528				
89	94 (177)	30.807				
90	95 (156,171)	31.108				
91	96 (157,202)	31.378				
92	98 (173)	31.545				
93	99 (201)	31.924				
94	100 (172,204)	32.182				
95	101 (192,197)	32.480				
96	102 (180)	32.666				
97	103 (193)	32.919				
98	104 (191)	33.226				
99	105 (200,169)	33.578				
100	106 (170)	34.765				
101	107 (190)	35.040				
102	108 (198)	35.919				
103	109 (199)	36.162				
104	110 (196,203)	36.710				
105	111 (189)	37.898				
106	112 (195)	39.493				
107	113 (208)	40.015				
108	114 (207)	40.966				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.421				
110	116 (205)	43.318				
111	I.S. (OCN)	47.026	155329	18.180	18.180	8543.971717
112	117 (206)	48.573				
113	118 (209)	54.729				



Sample Name: SS0823A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 08/23/2009 12:18:49 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_2\_082309  
LIMS File ID: GC16-769-10

Sample Name: SS0823A

1 of 1

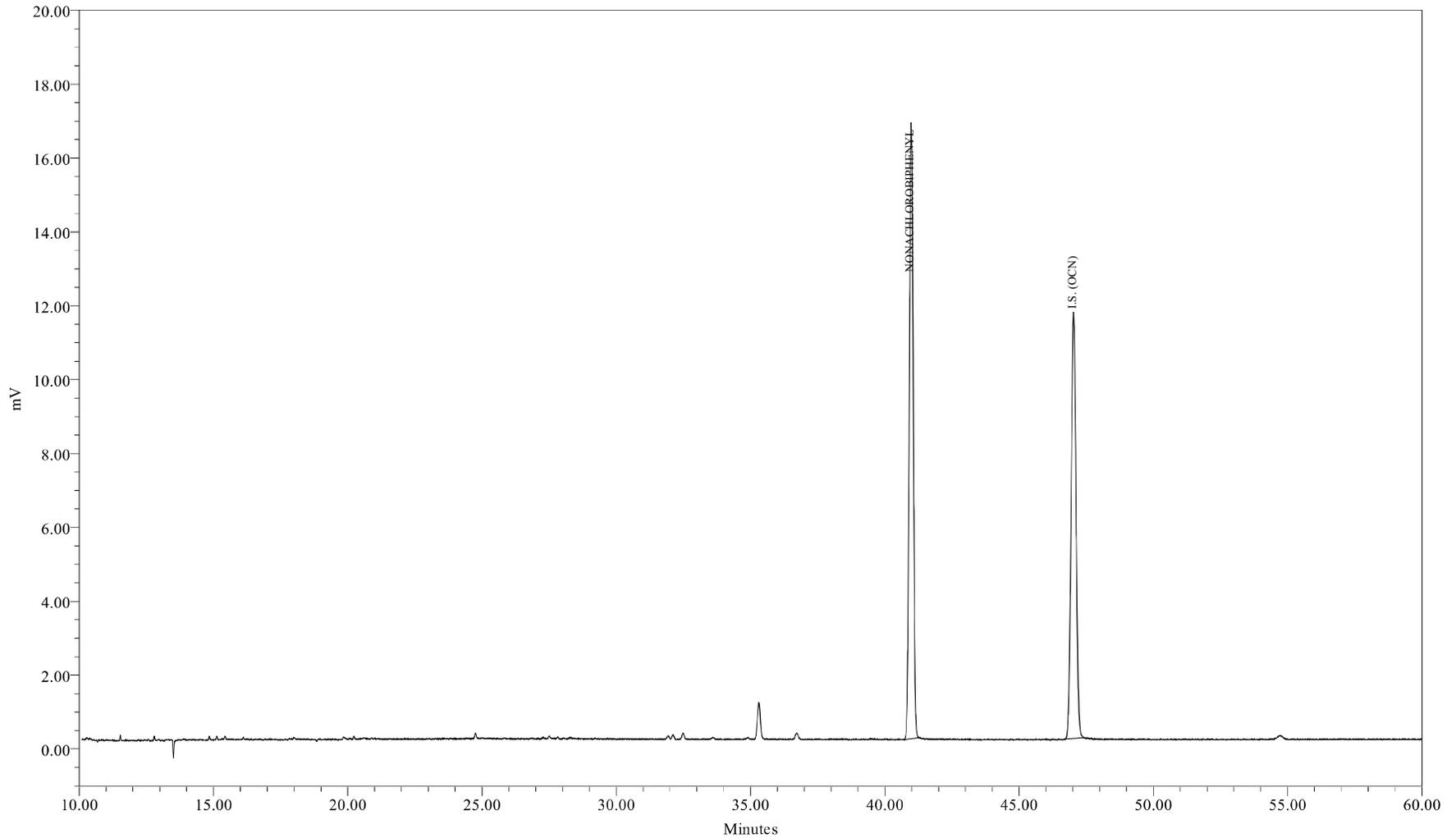


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Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: SS0823A Sample Amount: 1  
Sample ID: Surr Std (207) 2.0 ng/mL Dilution: 1  
Date Acquired: 08/23/2009 12:18:49 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:29:07 EDT  
Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_2\_082309 Current Date: 09/02/2009  
Run Time: 60.0 Minutes Current Time: 01:07:40 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-10

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.987	19130	2.000	2.000	1.219928
2	I.S. (OCN)	47.024	142546	18.180	18.180	7840.805241



Sample Name: SS0823B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 08/23/2009 13:26:05 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_20\_082309  
LIMS File ID: GC16-769-11

Sample Name: SS0823B

1 of 1

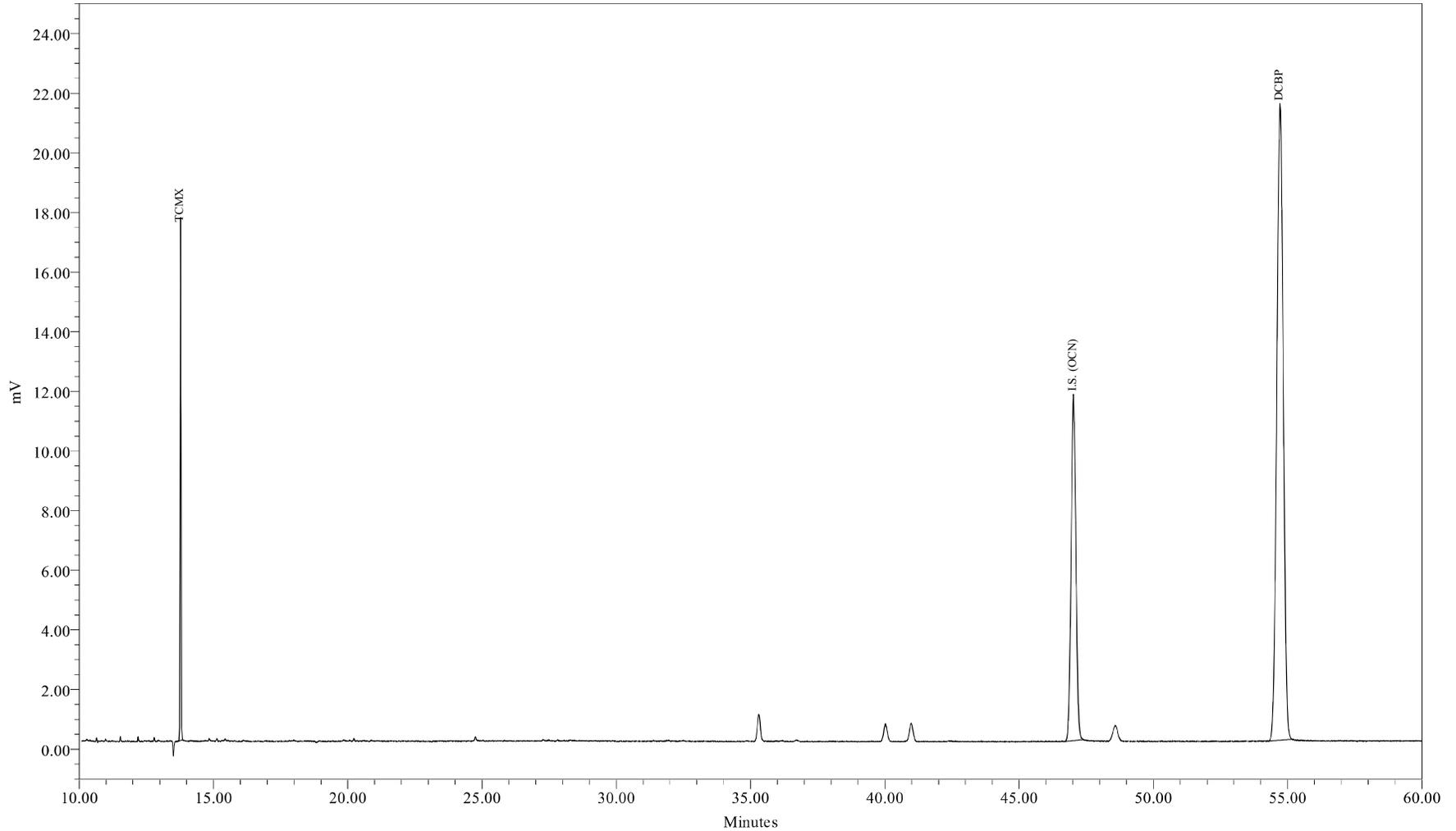


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Sample Name: SS0823B Sample Amount: 1  
Sample ID: Surr Std (207) 20.0 ng/mL Dilution: 1  
Date Acquired: 08/23/2009 13:26:05 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:29:51 EDT  
Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_20\_082309 Current Date: 09/02/2009  
Run Time: 60.0 Minutes Current Time: 01:07:48 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-11

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.981	168883	20.000	20.000	1.047607
2	I.S. (OCN)	47.020	146538	18.180	18.180	8060.411822



Sample Name: TD0823A  
Sample ID: Surr TCMX/DCBP 5/50 ppb  
Date Acquired: 08/23/2009 14:33:23 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_TD\_S\_082309  
LIMS File ID: GC16-769-I2

Sample Name: TD0823A

1 of 1

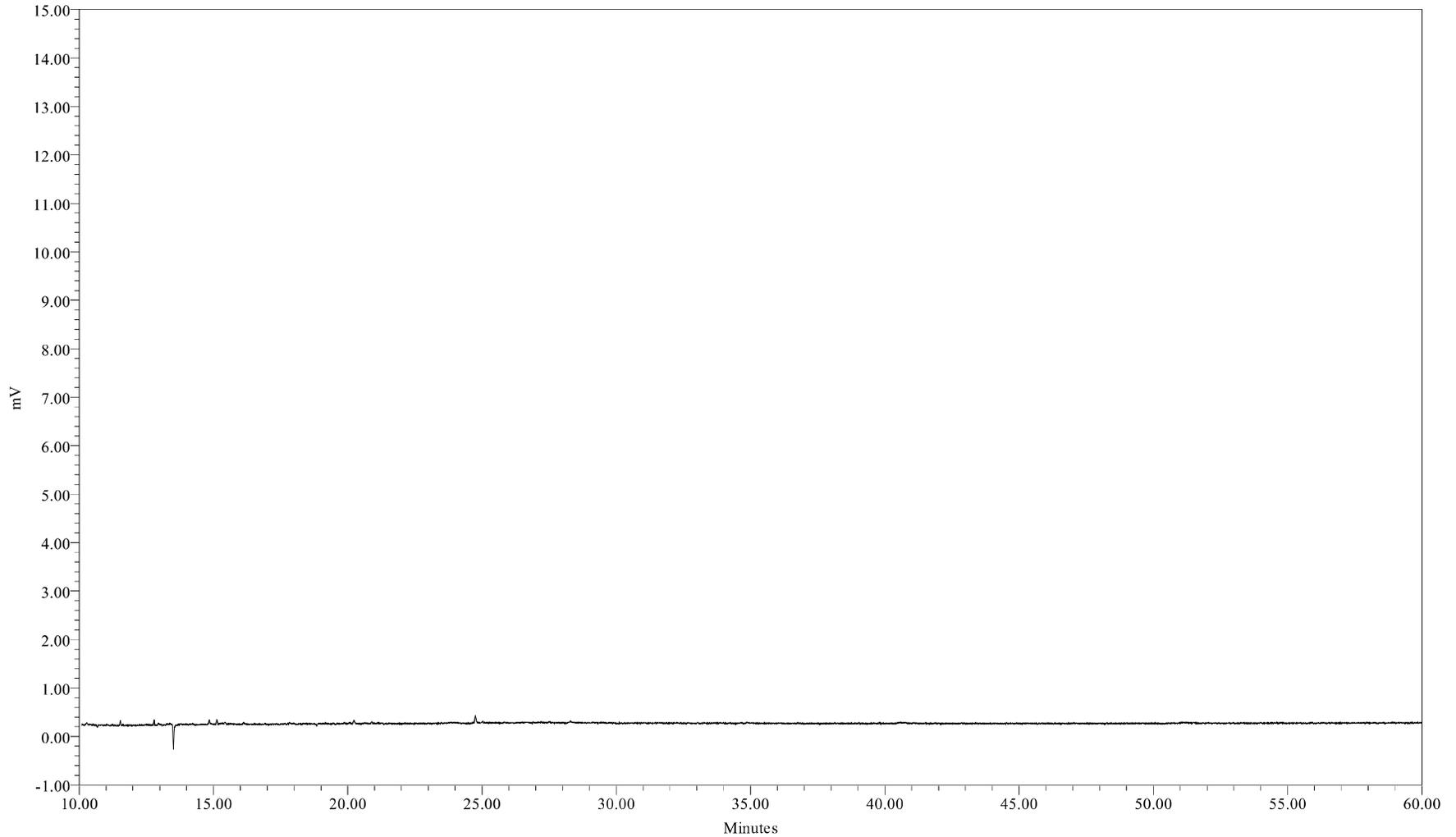


Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: TD0823A Sample Amount: 1  
Sample ID: Surr TCMX/DCBP 5/50 ppb Dilution: 1  
Date Acquired: 08/23/2009 14:33:23 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:32:44 EDT  
Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_TD\_S\_082309 Current Date: 09/02/2009  
Run Time: 60.0 Minutes Current Time: 01:07:58 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-12

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	TCMX	13.776	37299	5.000	5.000	0.947344
2	I.S. (OCN)	47.022	143157	18.180	18.180	7874.442526
3	DCBP	54.716	358570	50.000	50.000	0.910717



Sample Name: 090823B04  
Sample ID: HEXANE BLANK  
Date Acquired: 08/23/2009 15:40:42 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-13

Sample Name: 090823B04

1 of 1

**Northeast Analytical, Inc.**  
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME:	<u>Northeast Analytical, Inc.</u>	SGD NO:	<u>09090045</u>
ELAP ID No:	<u>11078</u>		
INSTRUMENT ID:	<u>GC16</u>		
GC COLUMN:	<u>Agilent DB-1; 30 meter, 0.25 micron phase thickness</u>		

**Continuing Calibration Standard CCCS0903A**

Lab File ID:	<u>GC16-781-3</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>09/03/2009</u>	Calculated Amount:	<u>130 ng/ml</u>
Time:	<u>11:04:51</u>	OCN (I.S.) Peak Area:	<u>136784</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>81.7</u>

**Continuing Calibration Standard CCCS0903B**

Lab File ID:	<u>GC16-781-10</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>09/03/2009</u>	Calculated Amount:	<u>133 ng/ml</u>
Time:	<u>19:23:48</u>	OCN (I.S.) Peak Area:	<u>152671</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>91.2</u>

**Continuing Calibration Standard CCCS0905A**

Lab File ID:	<u>GC16-783-3</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>09/05/2009</u>	Calculated Amount:	<u>130 ng/ml</u>
Time:	<u>11:59:33</u>	OCN (I.S.) Peak Area:	<u>149309</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>89.2</u>



# Northeast Analytical, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0903A File ID: GC16-781-3		Continuing Calibration CCCS0903B File ID: GC16-781-10		Continuing Calibration CCCS0905A File ID: GC16-783-3	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.39	3.00	1.40	3.63	1.33	-1.18
37 (104,44)	3.06	+/-15	3.45	12.7	3.46	13.1	3.46	12.9
47 (70)	2.42	+/-15	2.49	2.79	2.53	4.65	2.56	5.96
93 (174,181)	2.28	+/-15	2.34	2.76	2.38	4.39	2.35	3.14
102 (180)	4.35	+/-15	4.37	0.410	4.46	2.64	4.47	2.85
116 (205)	0.0788	+/-30	0.0729	-7.48	0.0770	-2.34	0.0765	-2.90
Total CCCS Conc.	122	+/-15	130	6.84	133	8.82	130	6.72

### Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0903A	1712 uV	856 uV	453 uV
CCCS0903B	1939 uV	969.5 uV	537 uV
CCCS0905A	1871 uV	935.5 uV	522 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0903A	1809 uV	603 uV	73 uV
CCCS0903B	2111 uV	703.7 uV	86 uV
CCCS0905A	1975 uV	658.3 uV	75 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

# Northeast Analytical, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0905B File ID: GC16-783-10		Continuing Calibration		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.45	7.08				
37 (104,44)	3.06	+/-15	3.50	14.5				
47 (70)	2.42	+/-15	2.58	6.65				
93 (174,181)	2.28	+/-15	2.38	4.60				
102 (180)	4.35	+/-15	4.48	3.09				
116 (205)	0.0788	+/-30	0.0881	11.8				
Total CCCS Conc.	122	+/-15	132	8.37				

### Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0905B	1940 uV	970 uV	533 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0905B	2079 uV	693 uV	85 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0903A	CCCS0903A File ID: GC16-781-3		CCCS0903B File ID: GC16-781-10		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.79		11.79			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.93		12.93			
4	5 (4,10)	+/-0.07	13.54		13.54			
5	6 (7,9)	+/-0.07	14.41		14.41			
6	7 (6)	+/-0.07	14.72		14.72			
7	8 (5,8)	+/-0.07	14.91		14.91			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.56		15.55			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.29		16.30			
13	14 (15,18)	+/-0.07	16.42		16.42			
14	15 (17)	+/-0.07	16.51		16.51			
15	16 (24,27)	+/-0.07	16.81		16.81			
16	17 (16,32)	+/-0.07	17.06		17.06			
17	19 (23,34,54)	+/-0.07	17.52		17.54			
18	20 (29)	+/-0.07	17.72		17.70			
19	21 (26)	+/-0.07	17.83		17.83			
20	22 (25)	+/-0.07	17.91		17.91			
21	23 (31)	+/-0.07	18.11		18.11			
22	24 (28,50)	+/-0.07	18.16		18.16			
23	25 (20,21,33,53)	+/-0.07	18.52		18.52			
24	26 (22,51)	+/-0.07	18.75		18.75			
25	27 (45)	+/-0.07	18.98		18.97			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.25		19.25			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.55		19.55			
30	32 (43,49)	+/-0.07	19.72		19.72			
31	33 (38,47)	+/-0.07	19.83		19.83			
32	34 (48,75)	+/-0.07	19.90		19.90			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.12		20.13			
35	37 (104,44)	+/-0.07	20.29		20.29			
36	38 (37,42,59)	+/-0.07	20.42		20.42			
37	39 (41,64,71,72)	+/-0.07	20.77		20.77			
38	41 (68,96)	+/-0.07	20.93		20.93			
39	42 (40)	+/-0.07	21.03		21.03			
40	43 (57,103)	+/-0.07	21.30		21.29			
41	44 (58,67,100)	+/-0.07	21.46		21.46			
42	45 (63)	+/-0.07	21.62		21.62			
43	46 (74,94,61)	+/-0.07	21.79		21.79			
44	47 (70)	+/-0.07	21.92		21.92			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	22.04		22.04			
46	49 (55,91,121)	+/-0.07	22.33		22.33			
47	50 (56,60)	+/-0.07	22.64		22.64			
48	51 (84,92,155)	+/-0.07	22.88		22.88			
49	52 (89)	+/-0.07	22.99		22.98			
50	53 (90,101)	+/-0.07	23.14		23.14			
51	54 (79,99,113)	+/-0.07	23.33		23.34			
52	55 (119,150)	+/-0.07	23.62		23.61			
53	56 (78,83,112,108)	+/-0.07	23.71		23.71			
54	57 (97,152,86)	+/-0.07	23.92		23.92			
55	58 (81,87,117,125,115,145)	+/-0.07	24.10		24.10			
56	59 (116,85,111)	+/-0.07	24.25		24.25			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0903A	CCCS0903A File ID: GC16-781-3		CCCS0903B File ID: GC16-781-10		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	24.37		24.37			
58	61 (77,110,148)	+/-0.07	24.50		24.50			
59	62 (154)	+/-0.07			24.75			
60	63 (82)	+/-0.07	24.87		24.87			
61	64 (151)	+/-0.07	25.17		25.17			
62	65 (124,135)	+/-0.07	25.31		25.30			
63	66 (144)	+/-0.07	25.37		25.37			
64	67 (107,109,147)	+/-0.07	25.43		25.43			
65	68 (123)	+/-0.07	25.55		25.53			
66	69 (106,118,139,149)	+/-0.07	25.62		25.62			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	26.02		26.03			
69	72 (122,131,133,142)	+/-0.07	26.22		26.24			
70	73 (146,165,188)	+/-0.07	26.52		26.52			
71	74 (105,132,161)	+/-0.07	26.65		26.65			
72	75 (153)	+/-0.07	26.81		26.81			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.35		27.35			
75	78 (179)	+/-0.07	27.42		27.42			
76	79 (137)	+/-0.07	27.63		27.65			
77	80 (130,176)	+/-0.07	27.79		27.79			
78	82 (138,163,164)	+/-0.07	28.02		28.02			
79	83 (158,160,186)	+/-0.07	28.21		28.20			
80	84 (126,129)	+/-0.07	28.40		28.42			
81	85 (166,178)	+/-0.07	28.75		28.76			
82	87 (175,159)	+/-0.07	29.06		29.07			
83	88 (182,187)	+/-0.07	29.22		29.22			
84	89 (128,162)	+/-0.07	29.33		29.34			
85	90 (183)	+/-0.07	29.53		29.53			
86	91 (167)	+/-0.07	29.79		29.79			
87	92 (185)	+/-0.07	30.14		30.15			
88	93 (174,181)	+/-0.07	30.52		30.52			
89	94 (177)	+/-0.07	30.79		30.80			
90	95 (156,171)	+/-0.07	31.10		31.10			
91	96 (157,202)	+/-0.07	31.37		31.37			
92	98 (173)	+/-0.07	31.54		31.53			
93	99 (201)	+/-0.07	31.93		31.92			
94	100 (172,204)	+/-0.07	32.18		32.17			
95	101 (192,197)	+/-0.07	32.47		32.47			
96	102 (180)	+/-0.07	32.66		32.66			
97	103 (193)	+/-0.07	32.90		32.90			
98	104 (191)	+/-0.07	33.22		33.25			
99	105 (200,169)	+/-0.07	33.57		33.58			
100	106 (170)	+/-0.07	34.76		34.75			
101	107 (190)	+/-0.07	35.04		35.04			
102	108 (198)	+/-0.07	35.91		35.92			
103	109 (199)	+/-0.07	36.16		36.15			
104	110 (196,203)	+/-0.07	36.70		36.71			
105	111 (189)	+/-0.07	37.92		37.88			
106	112 (195)	+/-0.07	39.47		39.48			
107	113 (208)	+/-0.07	40.00		40.00			
108	114 (207)	+/-0.07	40.99		40.97			
109	115 (194)	+/-0.07	42.41		42.40			
110	116 (205)	+/-0.07	43.30		43.32			
111	117 (206)	+/-0.07	48.57		48.55			
112	118 (209)	+/-0.07	54.71		54.72			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0903A	CCCS0905A File ID: GC16-783-3		CCCS0905B File ID: GC16-783-10		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.79		11.79			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.93		12.93			
4	5 (4,10)	+/-0.07	13.54		13.54			
5	6 (7,9)	+/-0.07	14.41		14.41			
6	7 (6)	+/-0.07	14.72		14.72			
7	8 (5,8)	+/-0.07	14.91		14.91			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.56		15.55			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.30		16.29			
13	14 (15,18)	+/-0.07	16.42		16.41			
14	15 (17)	+/-0.07	16.50		16.50			
15	16 (24,27)	+/-0.07	16.80		16.80			
16	17 (16,32)	+/-0.07	17.06		17.06			
17	19 (23,34,54)	+/-0.07	17.52		17.57			
18	20 (29)	+/-0.07	17.70		17.70			
19	21 (26)	+/-0.07	17.83		17.82			
20	22 (25)	+/-0.07	17.91		17.91			
21	23 (31)	+/-0.07	18.11		18.11			
22	24 (28,50)	+/-0.07	18.16		18.16			
23	25 (20,21,33,53)	+/-0.07	18.51		18.51			
24	26 (22,51)	+/-0.07	18.74		18.74			
25	27 (45)	+/-0.07	18.97		18.97			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.25		19.25			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.55		19.55			
30	32 (43,49)	+/-0.07	19.71		19.72			
31	33 (38,47)	+/-0.07	19.83		19.83			
32	34 (48,75)	+/-0.07	19.89		19.89			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.13		20.10			
35	37 (104,44)	+/-0.07	20.28		20.29			
36	38 (37,42,59)	+/-0.07	20.42		20.42			
37	39 (41,64,71,72)	+/-0.07	20.77		20.76			
38	41 (68,96)	+/-0.07	20.93		20.93			
39	42 (40)	+/-0.07	21.03		21.03			
40	43 (57,103)	+/-0.07	21.28		21.29			
41	44 (58,67,100)	+/-0.07	21.45		21.45			
42	45 (63)	+/-0.07	21.61		21.61			
43	46 (74,94,61)	+/-0.07	21.79		21.78			
44	47 (70)	+/-0.07	21.92		21.92			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	22.03		22.03			
46	49 (55,91,121)	+/-0.07	22.33		22.33			
47	50 (56,60)	+/-0.07	22.64		22.64			
48	51 (84,92,155)	+/-0.07	22.88		22.87			
49	52 (89)	+/-0.07	22.98		22.98			
50	53 (90,101)	+/-0.07	23.14		23.14			
51	54 (79,99,113)	+/-0.07	23.33		23.33			
52	55 (119,150)	+/-0.07	23.61		23.61			
53	56 (78,83,112,108)	+/-0.07	23.70		23.70			
54	57 (97,152,86)	+/-0.07	23.92		23.92			
55	58 (81,87,117,125,115,145)	+/-0.07	24.09		24.09			
56	59 (116,85,111)	+/-0.07	24.25		24.25			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0903A	CCCS0905A File ID: GC16-783-3		CCCS0905B File ID: GC16-783-10		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	24.37		24.37			
58	61 (77,110,148)	+/-0.07	24.50		24.50			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.87		24.87			
61	64 (151)	+/-0.07	25.17		25.17			
62	65 (124,135)	+/-0.07	25.30		25.30			
63	66 (144)	+/-0.07	25.36		25.36			
64	67 (107,109,147)	+/-0.07	25.43		25.43			
65	68 (123)	+/-0.07	25.54		25.53			
66	69 (106,118,139,149)	+/-0.07	25.62		25.62			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	26.02		26.03			
69	72 (122,131,133,142)	+/-0.07	26.22		26.23			
70	73 (146,165,188)	+/-0.07	26.52		26.52			
71	74 (105,132,161)	+/-0.07	26.65		26.65			
72	75 (153)	+/-0.07	26.81		26.81			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.35		27.35			
75	78 (179)	+/-0.07	27.42		27.42			
76	79 (137)	+/-0.07	27.68		27.63			
77	80 (130,176)	+/-0.07	27.79		27.79			
78	82 (138,163,164)	+/-0.07	28.01		28.02			
79	83 (158,160,186)	+/-0.07	28.20		28.20			
80	84 (126,129)	+/-0.07	28.42		28.40			
81	85 (166,178)	+/-0.07	28.76		28.75			
82	87 (175,159)	+/-0.07	29.07		29.06			
83	88 (182,187)	+/-0.07	29.21		29.21			
84	89 (128,162)	+/-0.07	29.33		29.34			
85	90 (183)	+/-0.07	29.52		29.53			
86	91 (167)	+/-0.07	29.79		29.79			
87	92 (185)	+/-0.07	30.14		30.14			
88	93 (174,181)	+/-0.07	30.52		30.51			
89	94 (177)	+/-0.07	30.80		30.79			
90	95 (156,171)	+/-0.07	31.10		31.10			
91	96 (157,202)	+/-0.07	31.37		31.36			
92	98 (173)	+/-0.07	31.54		31.53			
93	99 (201)	+/-0.07	31.92		31.92			
94	100 (172,204)	+/-0.07	32.17		32.17			
95	101 (192,197)	+/-0.07	32.49		32.47			
96	102 (180)	+/-0.07	32.66		32.66			
97	103 (193)	+/-0.07	32.90		32.91			
98	104 (191)	+/-0.07	33.22		33.22			
99	105 (200,169)	+/-0.07	33.58		33.57			
100	106 (170)	+/-0.07	34.75		34.75			
101	107 (190)	+/-0.07	35.03		35.03			
102	108 (198)	+/-0.07	35.92		35.93			
103	109 (199)	+/-0.07	36.15		36.14			
104	110 (196,203)	+/-0.07	36.70		36.70			
105	111 (189)	+/-0.07	37.93		37.91			
106	112 (195)	+/-0.07	39.47		39.47			
107	113 (208)	+/-0.07	40.02		39.99			
108	114 (207)	+/-0.07	40.96		40.97			
109	115 (194)	+/-0.07	42.41		42.39			
110	116 (205)	+/-0.07	43.34		43.30			
111	117 (206)	+/-0.07	48.54		48.55			
112	118 (209)	+/-0.07	54.72		54.73			

# Calibration Component Summary Table

## Component Summary for RF



Project Name:	GC16_May_2009	Current Time:	10:03:08
Sample Set Name:	GC16_082309a	Current Date:	09/23/2009
Processing Method:	CSGB_LL1X_082309	Calibration ID:	13506,13656
Run Time:	60 Minutes	Calibration Date(s):	08/23/2009

**Correlation Summary**

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999666	Y = 2.83e-002 X + 1.80e-003	0.00180161883174779	0.0283332302329311
2	3 (2)	1.000000	Y = 2.90e-003 X	0	0.0028988143297413
3	4 (3)	0.998520	Y = 1.49e-002 X + 6.51e-004	0.000650508514068254	0.0148657067002506
4	5 (4,10)	0.998527	Y = 6.09e-002 X + 5.91e-005	5.90957812784954E-5	0.0608536348664009
5	6 (7,9)	0.999540	Y = 4.64e-001 X - 4.26e-003	-0.00426333353122299	0.463978147055201
6	7 (6)	0.999269	Y = 2.19e-001 X + 5.57e-003	0.00556691804847825	0.219075513631429
7	8 (5,8)	0.999143	Y = 1.17e-001 X + 8.07e-004	0.000807218077034433	0.117159733370829
8	9 (14)	1.000000	Y = 1.77e-001 X	0	0.176868975557739
9	10 (19)	0.997922	Y = 3.57e-001 X + 1.34e-003	0.00134230736134591	0.357004065514705
10	11 (30)	1.000000	Y = 6.65e-001 X	0	0.665040391278157
11	12 (11)	1.000000	Y = 6.49e-002 X	0	0.0648965680053031
12	13 (12,13)	0.999917	Y = 2.88e-001 X - 8.92e-004	-0.00089227717929410	0.287635106852082
13	14 (15,18)	0.999678	Y = 3.80e-001 X + 1.29e-003	0.00128875081394431	0.380444233011606
14	15 (17)	0.999352	Y = 1.85e-001 X - 1.85e-003	-0.00185317508611305	0.185438252271081
15	16 (24,27)	0.999820	Y = 5.58e-001 X - 1.12e-004	-0.0001150182609198	0.557991974444177
16	17 (16,32)	0.999547	Y = 3.20e-001 X + 5.14e-003	0.00513819429649165	0.319912593206853
17	19 (23,34,54)	1.000000	Y = 3.97e-001 X	0	0.396913487979062
18	20 (29)	0.999383	Y = 6.83e-001 X - 1.62e-004	-0.00016213940130775	0.682979138521941
19	21 (26)	0.999439	Y = 4.35e-001 X - 1.81e-003	-0.0018140507800633	0.434755628640035
20	22 (25)	0.996938	Y = 6.49e-001 X + 8.04e-004	0.00080395640181119	0.648567729352283
21	23 (31)	0.999851	Y = 5.15e-001 X + 1.46e-002	0.0145673812109512	0.515009697279804
22	24 (28,50)	0.999549	Y = 5.69e-001 X + 9.62e-003	0.00962487780023169	0.56929839644903
23	25 (20,21,33,53)	0.999884	Y = 4.44e-001 X + 1.09e-002	0.0109144575869213	0.443884687508628
24	26 (22,51)	0.999294	Y = 4.09e-001 X + 3.00e-003	0.00300141703110302	0.40913721561058
25	27 (45)	0.999987	Y = 5.06e-001 X - 6.15e-004	-0.00061486210722278	0.50628684614489
26	28 (36)	1.000000	Y = 3.02e-001 X	0	0.301527806357938
27	29 (46)	0.999254	Y = 4.63e-001 X + 1.04e-003	0.00104278670570448	0.462685055002637
28	30 (39)	1.000000	Y = 2.98e-001 X	0	0.298422313485573
29	31 (52,69,73)	0.999437	Y = 3.62e-001 X + 7.37e-004	0.000737007710196247	0.361920898412064
30	32 (43,49)	0.999386	Y = 7.07e-001 X - 3.03e-004	-0.00030311389247850	0.706687936415838
31	33 (38,47)	0.999624	Y = 9.57e-001 X + 1.68e-002	0.0167860356382913	0.957134995666923
32	34 (48,75)	0.998774	Y = 7.22e-001 X + 5.39e-003	0.00538866165255014	0.721989822847315
33	35 (62,65)	1.000000	Y = 7.87e-001 X	0	0.787266064787361
34	36 (35)	1.000000	Y = 2.81e-001 X	0	0.281285947945671
35	37 (104,44)	0.999213	Y = 5.48e-001 X + 9.22e-003	0.00921654953183637	0.547945433910457
36	38 (37,42,59)	0.999855	Y = 4.55e-001 X + 1.16e-003	0.00115621085286932	0.454926413995967
37	39 (41,64,71,72)	0.999616	Y = 7.02e-001 X + 1.09e-002	0.0108711637736025	0.701958584437876
38	41 (68,96)	1.000000	Y = 4.43e-001 X	0	0.443464115224603



Project Name: GC16\_May\_2009 Current Time: 10:03:09  
 Sample Set Name: GC16\_082309a Current Date: 09/23/2009  
 Processing Method: CSGB\_LL1X\_082309 Calibration ID: 13506,13656  
 Run Time: 60 Minutes Calibration Date(s): 08/23/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999897	Y = 6.04e-001 X - 4.21e-003	-0.00421326745900219	0.603622181652096
40	43 (57,103)	1.000000	Y = 6.06e-001 X	0	0.605790412639807
41	44 (58,67,100)	0.998948	Y = 7.79e-001 X - 8.32e-004	-0.00083217092138897	0.778991177606039
42	45 (63)	0.999241	Y = 8.27e-001 X + 5.39e-004	0.000539251350897996	0.827384791065449
43	46 (74,94,61)	0.999794	Y = 1.00e+000 X - 2.14e-003	-0.00213903143942917	1.00191846359632
44	47 (70)	0.999589	Y = 8.12e-001 X + 8.19e-003	0.00818564150034051	0.811694241011513
45	48 (66,76,98,80,93,95,102,88)	0.999559	Y = 5.42e-001 X + 1.85e-002	0.0184564418723854	0.542008063762718
46	49 (55,91,121)	0.999658	Y = 6.82e-001 X - 2.00e-003	-0.00200491296506167	0.682013523297033
47	50 (56,60)	0.999799	Y = 8.07e-001 X + 1.13e-002	0.0112868086738103	0.807084714896827
48	51 (84,92,155)	0.999444	Y = 3.26e-001 X - 1.42e-003	-0.00141685713963935	0.326128445303552
49	52 (89)	0.998646	Y = 7.39e-001 X - 2.29e-004	-0.00022927629604231	0.738863554876024
50	53 (90,101)	0.999157	Y = 6.99e-001 X - 5.01e-003	-0.00501475782233363	0.699255044336957
51	54 (79,99,113)	0.999498	Y = 1.10e+000 X - 2.63e-003	-0.00262837346552192	1.10071333097558
52	55 (119,150)	0.996725	Y = 1.91e+000 X + 1.01e-004	0.000100839781498337	1.90685721838572
53	56 (78,83,112,108)	0.999355	Y = 6.97e-001 X - 8.92e-004	-0.00089227127813185	0.696741560328289
54	57 (97,152,86)	0.998416	Y = 9.83e-001 X - 3.27e-003	-0.00326735698187119	0.982534433277263
55	58 (81,87,117,125,115,145)	0.999096	Y = 7.60e-001 X + 9.95e-004	0.000994669274042681	0.75951098464587
56	59 (116,85,111)	0.999734	Y = 9.55e-001 X - 3.70e-003	-0.00369590126437702	0.955469687718431
57	60 (120,136)	0.999609	Y = 7.72e-001 X - 2.00e-003	-0.00199522679699027	0.771795849662583
58	61 (77,110,148)	0.999316	Y = 6.99e-001 X - 5.28e-003	-0.00527836180821928	0.699080508987253
59	62 (154)	1.000000	Y = 7.11e-001 X	0	0.71130310696467
60	63 (82)	0.997002	Y = 9.38e-001 X + 3.62e-003	0.0036203962758749	0.937575562680917
61	64 (151)	0.999447	Y = 7.73e-001 X + 5.10e-003	0.00509705466801091	0.772582268426784
62	65 (124,135)	0.998282	Y = 1.28e+000 X + 3.13e-003	0.00313423642198085	1.28206092263176
63	66 (144)	0.999835	Y = 5.06e-001 X - 4.41e-004	-0.00044146933059446	0.505503248842196
64	67 (107,109,147)	0.999354	Y = 7.60e-001 X - 8.93e-004	-0.00089312051045831	0.759765687099173
65	68 (123)	1.000000	Y = 7.70e-001 X	0	0.769563853971667
66	69 (106,118,139,149)	0.999198	Y = 8.59e-001 X + 1.13e-002	0.0113467282905373	0.85885310852236
67	70 (140)	1.000000	Y = 8.14e-001 X	0	0.813821753273992
68	71 (114,134,143)	0.996791	Y = 9.90e-001 X + 1.10e-003	0.00109507649459528	0.98995829343812
69	72 (122,131,133,142)	0.998963	Y = 2.06e+000 X - 1.47e-004	-0.00014699669591231	2.06215739442918
70	73 (146,165,188)	0.997231	Y = 9.82e-001 X - 5.59e-004	-0.00055898448123797	0.981755005704735
71	74 (105,132,161)	0.999543	Y = 1.10e+000 X + 2.05e-003	0.00204720262696267	1.10073134524835
72	75 (153)	0.999058	Y = 1.06e+000 X + 9.13e-003	0.00913397778546488	1.05643617113411
73	76 (127,168,184)	1.000000	Y = 6.63e-001 X	0	0.662614656511015
74	77 (141)	0.998580	Y = 6.66e-001 X + 7.26e-004	0.000726456693527	0.666218065393652
75	78 (179)	0.997428	Y = 8.24e-001 X + 2.73e-005	2.7319174270346E-5	0.824102698371263
76	79 (137)	0.999964	Y = 8.37e-001 X + 2.76e-004	0.000275715034236547	0.837049243693505



Project Name:	GC16_May_2009	Current Time:	10:03:09
Sample Set Name:	GC16_082309a	Current Date:	09/23/2009
Processing Method:	CSGB_LL1X_082309	Calibration ID:	13506,13656
Run Time:	60 Minutes	Calibration Date(s):	08/23/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.997221	Y = 1.81e+000 X + 2.21e-003	0.00220808410031231	1.80617206501532
78	82 (138,163,164)	0.999086	Y = 9.59e-001 X + 1.64e-002	0.0163962096141765	0.959357538827507
79	83 (158,160,186)	0.998076	Y = 1.22e+000 X + 3.84e-003	0.00383730580819436	1.22403538482793
80	84 (126,129)	0.999921	Y = 7.16e+000 X - 1.02e-003	-0.0010169215844005	7.16239894004932
81	85 (166,178)	0.999269	Y = 5.46e-001 X - 1.74e-003	-0.00174232352807757	0.546065284242855
82	87 (175,159)	0.997907	Y = 6.77e-001 X - 8.26e-004	-0.00082550261690972	0.677419995287286
83	88 (182,187)	0.999692	Y = 9.45e-001 X + 2.38e-002	0.0237746678649109	0.945448393039283
84	89 (128,162)	0.997455	Y = 1.62e+000 X - 9.37e-004	-0.00093717667967063	1.62090770013763
85	90 (183)	0.998919	Y = 9.28e-001 X - 9.69e-003	-0.00968843132498631	0.927903589256649
86	91 (167)	0.999637	Y = 1.82e+000 X - 7.72e-004	-0.00077158670663528	1.81719867853614
87	92 (185)	0.999223	Y = 1.34e+000 X + 2.80e-003	0.00279575322946024	1.34115536940091
88	93 (174,181)	0.999764	Y = 9.17e-001 X + 1.50e-002	0.0149610719195108	0.916849056922926
89	94 (177)	0.999316	Y = 8.14e-001 X + 2.40e-003	0.00239738708996562	0.813990152366728
90	95 (156,171)	0.999470	Y = 8.83e-001 X - 4.14e-003	-0.00413990273083431	0.883476486883518
91	96 (157,202)	0.999833	Y = 6.07e+000 X + 3.75e-003	0.0037473033113688	6.06533724310093
92	98 (173)	0.995434	Y = 1.27e+000 X + 9.10e-004	0.000910324211345924	1.27009391321699
93	99 (201)	0.999519	Y = 8.14e-001 X + 1.37e-003	0.00137285179978336	0.813671112228541
94	100 (172,204)	0.999836	Y = 7.91e-001 X + 3.06e-003	0.0030613018794507	0.790792873880464
95	101 (192,197)	0.998986	Y = 7.92e-001 X + 9.71e-004	0.000971240314824803	0.79175447568383
96	102 (180)	0.999719	Y = 1.05e+000 X + 4.09e-002	0.040895239450335	1.04620529304539
97	103 (193)	0.999603	Y = 8.69e-001 X + 5.62e-004	0.000562266648669374	0.869453450791319
98	104 (191)	0.999874	Y = 9.08e-001 X - 1.06e-004	-0.00010648264862804	0.907718460139434
99	105 (200,169)	0.999680	Y = 9.07e-001 X - 8.29e-004	-0.00082928551244948	0.906747790327734
100	106 (170)	0.999935	Y = 1.59e+000 X + 9.57e-003	0.00957083545351622	1.58594500871684
101	107 (190)	0.999959	Y = 1.35e+000 X - 1.00e-003	-0.00100167292070918	1.34663560293384
102	108 (198)	0.999924	Y = 1.28e+000 X + 3.15e-003	0.00315169937761581	1.27606872681562
103	109 (199)	0.999653	Y = 6.14e-001 X + 3.57e-003	0.00357195742316518	0.61432259922954
104	110 (196,203)	0.999808	Y = 6.65e-001 X + 1.96e-002	0.0196198264294685	0.66490789965409
105	111 (189)	0.998284	Y = 1.39e+000 X + 3.43e-004	0.000342835428392099	1.39460829789726
106	112 (195)	0.999577	Y = 1.77e+000 X + 1.72e-004	0.000171863319533228	1.7656121142616
107	113 (208)	0.998357	Y = 6.34e-001 X + 1.15e-003	0.0011471857955701	0.63375215803562
108	114 (207)	0.999717	Y = 1.31e+000 X - 9.15e-004	-0.00091492958832448	1.30986058389035
109	115 (194)	0.999616	Y = 1.42e+000 X + 2.73e-002	0.0273393258160071	1.42214302195135
110	116 (205)	0.999937	Y = 8.98e-001 X - 4.47e-004	-0.00044665653333750	0.897692199238193
111	117 (206)	0.999060	Y = 1.37e+000 X - 3.79e-003	-0.00378942210764255	1.3693266605021
112	118 (209)	0.995604	Y = 1.11e+000 X - 1.51e-004	-0.00015145566795998	1.10896434916728
113	I.S. (OCN)	1.000000	Y = 9.10e+003 X	0	9099.96020396856

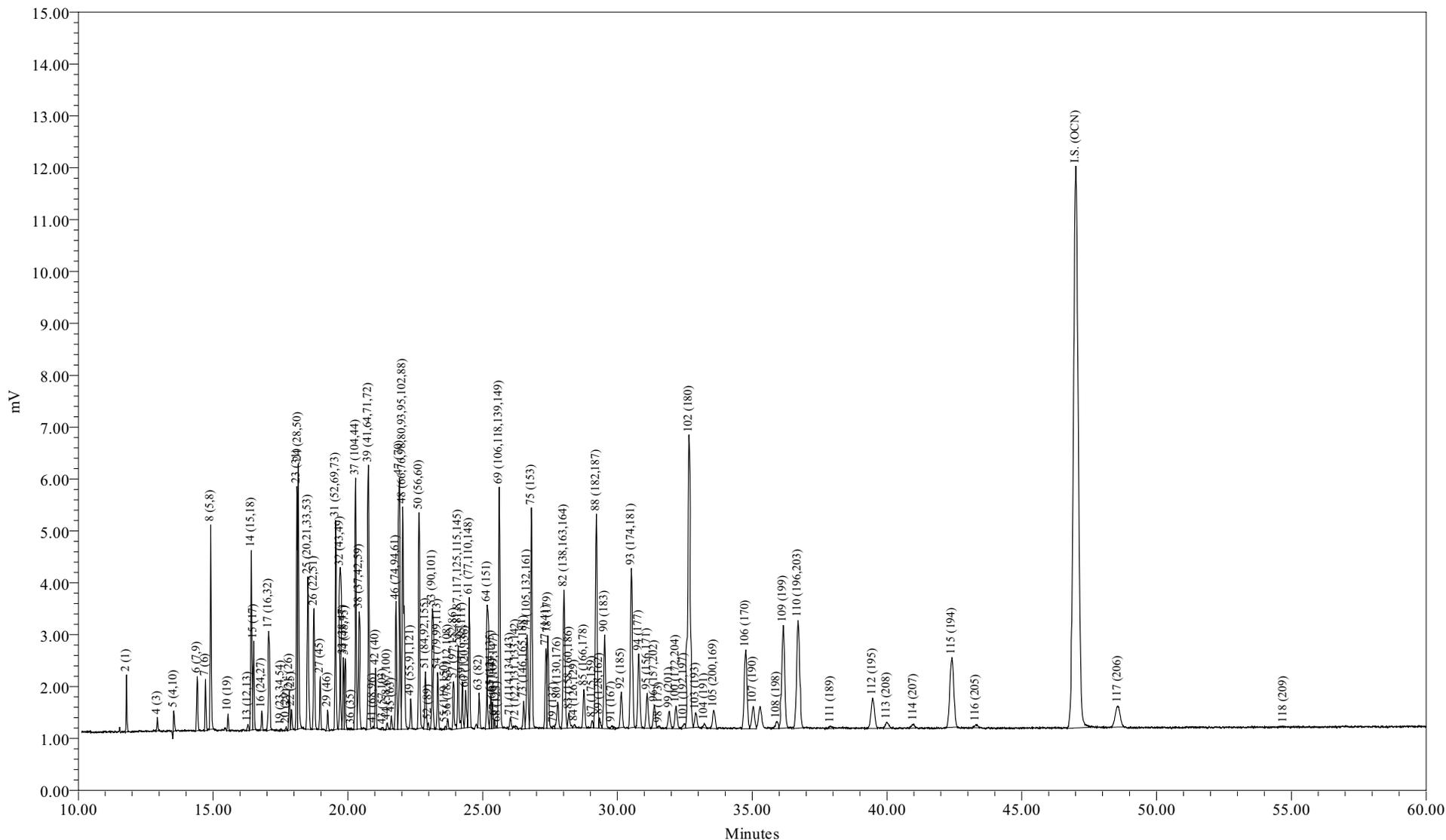
# Standards Raw Data



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: CCCS0903A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 09/03/2009 11:04:51 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-781-3

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/03/2009 11:04:51  
 Lab Sample ID: CCCS0903A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-781-3

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 130 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.07	16.40
Di	13.18	16.44
Tri	18.47	20.03
Tetra	21.23	20.38
Penta	8.01	6.81
Hexa	7.61	5.95
Hepta	12.80	9.06
Octa	7.02	4.57
Nona	0.61	0.37
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	9.4910	40.7	33.4
A1242	23+24/31+28	6.6428	28.5	23.4
A1254SED	61/100	1.5620	6.70	
A1254BIO	69+75+82/149+153+138	6.6770		23.5
A1260	102/180	4.3678	18.7	15.4
A1268	115/194	1.2648	5.42	4.45

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 2.07

Total Cl / biphenyl Residue = 3.64

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/03/2009 11:04:51  
 Lab Sample ID: CCCS0903A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-781-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2037	9.49	50.3			
3	12.83	188.7		-	-			
4	12.93	188.7	557	4.94	26.2			
5	13.54	223.1	1128	2.46	11.0			
6	14.41	223.1	2982	0.864	3.87			
7	14.72	223.1	2334	1.39	6.23			
8	14.91	223.1	10095	11.4	51.3			
9	15.48	223.1		-	-			
10	15.56	257.5	770	0.283	1.10			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.29	223.1	387	0.182	0.816			
14	16.42	249.0	9712	3.39	13.6			
15	16.51	257.5	4616	3.32	12.9			
16	16.81	257.5	1025	0.244	0.949			
17	17.06	257.5	8485	3.51	13.6			
19	17.52	267.9	130	0.0435	0.162			
20	17.72	257.5	175	0.0342	0.133			
21	17.83	257.5	2013	0.620	2.41			
22	17.91	257.5	1064	0.217	0.842			
23	18.11	257.5	12384	3.17	12.3			
24	18.16	257.5	14957	3.47	13.5			
25	18.52	259.5	10885	3.23	12.5			
26	18.75	258.7	7036	2.28	8.81			
27	18.98	292.0	2845	0.748	2.56			
28	19.12	257.5		-	-			
29	19.25	292.0	1209	0.345	1.18			
30	19.39	257.5		-	-			
31	19.55	292.0	11800	4.33	14.8			
32	19.72	292.0	9521	1.79	6.13			
33	19.83	292.0	3956	0.532	1.82			
34	19.90	292.0	4029	0.734	2.51			
35	20.04	292.0		-	-			
36	20.12	257.5	88	0.0414	0.161			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	14281	3.45	11.8			
38	20.42	272.4	7970	2.33	8.54			
39	20.77	292.0	15804	2.98	10.2			
41	20.93	326.4	135	0.0404	0.124			
42	21.03	292.0	3363	0.747	2.56			
43	21.30	298.9	137	0.0301	0.101			
44	21.46	298.9	402	0.0696	0.233			
45	21.62	292.0	693	0.111	0.379			
46	21.79	292.0	7844	1.04	3.57			
47	21.92	292.0	15253	2.49	8.52			
48	22.04	293.5	20812	5.07	17.3			
49	22.33	324.7	1797	0.353	1.09			
50	22.64	292.0	13223	2.16	7.41			
51	22.88	326.4	4141	1.69	5.18			
52	22.99	326.4	362	0.0655	0.201			
53	23.14	326.4	7406	1.41	4.33			
54	23.33	326.4	3528	0.428	1.31			
55	23.62	326.4	165	0.0115	0.0351			
56	23.71	326.4	610	0.118	0.360			
57	23.92	326.4	3120	0.425	1.30			
58	24.10	326.4	5461	0.954	2.92			
59	24.25	326.4	2773	0.390	1.19			
60	24.37	360.9	2706	0.469	1.30			
61	24.50	326.4	8176	1.56	4.79			
62	24.79	360.9		-	-			
63	24.87	326.4	2138	0.299	0.917			
64	25.17	360.9	7705	1.32	3.65			
65	25.31	350.5	2040	0.209	0.597			
66	25.37	360.9	1674	0.441	1.22			
67	25.43	336.8	467	0.0828	0.246			
68	25.55	326.4	122	0.0210	0.0645			
69	25.62	337.5	18132	2.79	8.27			
70	25.74	360.9		-	-			
71	26.02	347.8	918	0.122	0.351			
72	26.22	336.8	227	0.0147	0.0436			
73	26.52	360.9	1910	0.259	0.718			
74	26.65	347.8	7750	0.934	2.69			
75	26.81	360.9	16216	2.03	5.63			
76	26.93	360.9		-	-			
77	27.35	360.9	5763	1.15	3.18			
78	27.42	395.3	7325	1.18	2.99			
79	27.63	360.9	195	0.0306	0.0848			
80	27.79	360.9	2460	0.180	0.498			
82	28.02	360.9	13497	1.85	5.13			
83	28.21	360.9	1481	0.158	0.437			
84	28.40	360.9	285	0.00544	0.0151			
85	28.75	395.3	3308	0.808	2.04			
87	29.06	395.3	577	0.114	0.290			
88	29.22	395.3	19557	2.72	6.89			
89	29.33	360.9	833	0.0689	0.191			
90	29.53	395.3	8707	1.26	3.18			
91	29.79	360.9	466	0.0345	0.0957			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.14	394.3	3328	0.328	0.831			
93	30.52	394.3	16275	2.34	5.94			
94	30.79	394.3	7477	1.22	3.09			
95	31.10	382.2	3537	0.537	1.40			
96	31.37	429.8	2442	0.0529	0.123			
98	31.54	395.3	204	0.0207	0.0523			
99	31.93	429.8	1926	0.313	0.728			
100	32.18	395.3	2617	0.436	1.10			
101	32.47	429.8	514	0.0851	0.198			
102	32.66	395.3	34689	4.37	11.0			
103	32.90	395.3	1660	0.253	0.640			
104	33.22	395.3	403	0.0592	0.150			
105	33.57	429.8	2343	0.344	0.801			
106	34.76	395.3	10844	0.903	2.28			
107	35.04	395.3	3086	0.305	0.772			
108	35.91	429.8	1060	0.108	0.251			
109	36.16	429.8	15108	3.26	7.59			
110	36.70	429.8	16393	3.25	7.56			
111	37.92	395.3	369	0.0349	0.0883			
112	39.47	429.8	5308	0.399	0.929			
113	40.00	464.2	1088	0.226	0.488			
114	40.99	464.2	615	0.0631	0.136			
115	42.41	429.8	13739	1.26	2.94			
116	43.30	429.8	489	0.0729	0.170			
117	48.57	464.2	5163	0.504	1.09			
118	54.71	498.6	30	0.00377	0.00756			

Total Concentration = 130 ng/mL

Total Nanomoles = 0.466

Average Molecular Weight = 279.5

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 136784.0

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/03/2009 11:04:51  
 Lab Sample ID: CCCS0903A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-781-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	7.281	10.786
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003	0.2751	4	3.789	5.613
5	13.54	2:2	004 010	0.2881	2-2; 26	1.890	2.368
6	14.41	2:1	007 009	0.3066	24; 25	0.662	0.830
7	14.72	2:1	006	0.3132	2-3	1.067	1.337
8	14.91	2:1	005 008	0.3172	23; 2-4	8.781	11.002
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019	0.3311	26-2	0.217	0.236
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013	0.3466	34; 3-4	0.140	0.175
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	2.600	2.919
15	16.51	3:2	017	0.3513	24-2	2.546	2.764
16	16.81	3:2	024 027	0.3577	236; 26-3	0.187	0.203
17	17.06	3:2	016 032	0.3630	23-2; 26-4	2.692	2.922
19	17.52	3:1 4:4	023 034 054	0.3728	235; 35-2; 26-26	0.033	0.035
20	17.72	3:1	029	0.3770	245	0.026	0.028
21	17.83	3:1	026	0.3794	25-3	0.475	0.516
22	17.91	3:1	025	0.3811	24-3	0.166	0.181
23	18.11	3:1	031	0.3853	25-4	2.430	2.638
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	2.666	2.894
25	18.52	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.481	2.673
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	1.748	1.889
27	18.98	4:3	045	0.4038	236-2	0.574	0.549
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4096	23-26	0.265	0.253
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.323	3.181
32	19.72	4:2	043 049	0.4196	235-2; 24-25	1.374	1.315
33	19.83	4:2	038 047	0.4219	345; 24-24	0.408	0.391
34	19.90	4:2	048 075	0.4234	245-2; 246-4	0.563	0.539
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.12	3:0	035	0.4281	34-3	0.032	0.034
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	2.645	2.532
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.784	1.831
39	20.77	4:2	041 064 071 072	0.4419	234-2; 236-4; 26-34; 25-35	2.284	2.186

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096	0.4453	24-35; 236-26	0.031	0.027
42	21.03	4:2	040	0.4474	23-23	0.573	0.549
43	21.30	4:1 5:3	057 103	0.4532	235-3; 246-25	0.023	0.022
44	21.46	4:1 5:3	058 067 100	0.4566	23-35; 245-3; 246-24	0.053	0.050
45	21.62	4:1	063	0.4600	235-4	0.085	0.081
46	21.79	4:1 5:3	074 094 061	0.4636	245-4; 235-26; 2345	0.800	0.766
47	21.92	4:1	070	0.4664	25-34	1.908	1.827
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.889	3.704
49	22.33	4:1 5:3	055 091 121	0.4751	234-3; 236-24; 246-35	0.271	0.233
50	22.64	4:1	056 060	0.4817	23-34; 234-4	1.660	1.589
51	22.88	5:3 6:4	084 092 155	0.4868	236-23; 235-25; 246-246	1.298	1.112
52	22.99	5:3	089	0.4891	234-26	0.050	0.043
53	23.14	5:2	090 101	0.4923	235-24; 245-25	1.085	0.930
54	23.33	5:2	079 099 113	0.4964	34-35; 245-24; 236-35	0.329	0.281
55	23.62	5:2 6:4	119 150	0.5026	246-34; 236-246	0.009	0.008
56	23.71	5:2	078 083 112 108	0.5045	345-3; 235-23; 2356-3; 2346-3	0.090	0.077
57	23.92	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	0.326	0.280
58	24.10	5:2	081 087 117 125 115 145	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.732	0.627
59	24.25	5:2	116 085 111	0.5160	23456; 234-24; 235-35	0.299	0.256
60	24.37	6:4	120 136	0.5185	245-35; 236-236	0.360	0.278
61	24.50	5:2	077 110 148	0.5213	34-34; 236-34; 235-246	1.198	1.026
62	24.79	6:3	154		245-246	-	-
63	24.87	5:2	082	0.5291	234-23	0.230	0.197
64	25.17	6:3	151	0.5355	2356-25	1.012	0.784
65	25.31	5:1 6:3	124 135	0.5385	345-25; 235-236	0.160	0.128
66	25.37	6:3	144	0.5398	2346-25	0.338	0.262
67	25.43	5:1 6:3	107 109 147	0.5411	234-35; 235-34; 2356-24	0.064	0.053
68	25.55	5:1	123	0.5436	345-24	0.016	0.014
69	25.62	5:1 6:3	106 118 139 149	0.5451	2345-3; 245-34; 2346-24; 236-245	2.143	1.775
70	25.74	6:3	140		234-246	-	-
71	26.02	5:1 6:3	114 134 143	0.5536	2345-4; 2356-23; 2345-26	0.094	0.075
72	26.22	5:1 6:3	122 131 133 142	0.5579	345-23; 2346-23; 235-235; 23456-2	0.011	0.009
73	26.52	6:2	146 165 188	0.5643	235-245; 2356-35; 2356-246	0.199	0.154
74	26.65	5:1 6:3	105 132 161	0.5670	234-34; 234-236; 2346-35	0.716	0.576
75	26.81	6:2	153	0.5704	245-245	1.558	1.207
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141	0.5819	2345-25	0.881	0.682
78	27.42	7:4	179	0.5834	2356-236	0.906	0.641
79	27.63	6:2	137	0.5879	2345-24	0.023	0.018
80	27.79	6:2 7:4	130 176	0.5913	234-235; 2346-236	0.138	0.107
82	28.02	6:2	138 163 164	0.5962	234-245; 2356-34; 236-345	1.421	1.101
83	28.21	6:2	158 160 186	0.6002	2346-34; 23456-3; 23456-26	0.121	0.094
84	28.40	6:2	126 129	0.6043	345-34; 2345-23	0.004	0.003
85	28.75	7:3	166 178	0.6117	23456-4; 2356-235	0.620	0.439
87	29.06	7:3	175 159	0.6183	2346-235; 2345-35	0.088	0.062
88	29.22	7:3	182 187	0.6217	2345-246; 2356-245	2.090	1.478
89	29.33	6:2	128 162	0.6240	234-234; 235-345	0.053	0.041
90	29.53	7:3	183	0.6283	2346-245	0.965	0.682
91	29.79	6:1	167	0.6338	245-345	0.026	0.021
92	30.14	7:3	185	0.6413	23456-25	0.251	0.178
93	30.52	7:3	174 181	0.6494	2345-236; 23456-24	1.797	1.274
94	30.79	7:3	177	0.6551	2356-234	0.934	0.662
95	31.10	6:1 7:3	156 171	0.6617	2345-34; 2346-234	0.412	0.301
96	31.37	8:4	157 202	0.6674	234-345; 2356-2356	0.041	0.026
98	31.54	7:3	173	0.6711	23456-23	0.016	0.011
99	31.93	8:4	201	0.6794	2346-2356	0.240	0.156
100	32.18	7:2	172 204	0.6847	2345-235; 23456-246	0.334	0.237
101	32.47	8:4	192 197	0.6909	23456-35; 2346-2346	0.065	0.042
102	32.66	7:2	180	0.6949	2345-245	3.351	2.370
103	32.90	7:2	193	0.7000	2356-345	0.194	0.137
104	33.22	7:2	191	0.7068	2346-345	0.045	0.032
105	33.57	8:4	200 169	0.7143	23456-236; 345-345	0.264	0.172
106	34.76	7:2	170	0.7396	2345-234	0.693	0.490

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>	0.7455	23456-34	0.234	0.166
108	35.91	8:3	<b>198</b>	0.7640	23456-235	0.083	0.054
109	36.16	8:3	<b>199</b>	0.7694	2345-2356	2.503	1.628
110	36.70	8:3	<b>196 203</b>	0.7809	2345-2346; 23456-245	2.491	1.620
111	37.92	7:1	<b>189</b>	0.8068	2345-345	0.027	0.019
112	39.47	8:3	<b>195</b>	0.8398	23456-234	0.306	0.199
113	40.00	9:4	<b>208</b>	0.8511	23456-2356	0.174	0.105
114	40.99	9:4	<i>207</i>	0.8721	23456-2346	0.048	0.029
115	42.41	8:2	<b>194</b>	0.9023	2345-2345	0.970	0.631
116	43.30	8:2	<b>205</b>	0.9213	23456-345	0.056	0.036
117	48.57	9:3	<b>206</b>	1.033	23456-2345	0.387	0.233
118	54.71	10:4	<i>209</i>	1.164	23456-23456	0.003	0.002

Concentration = 130 ng/mL

Total Nanomoles = 0.466

Average Molecular Weight = 279.5

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

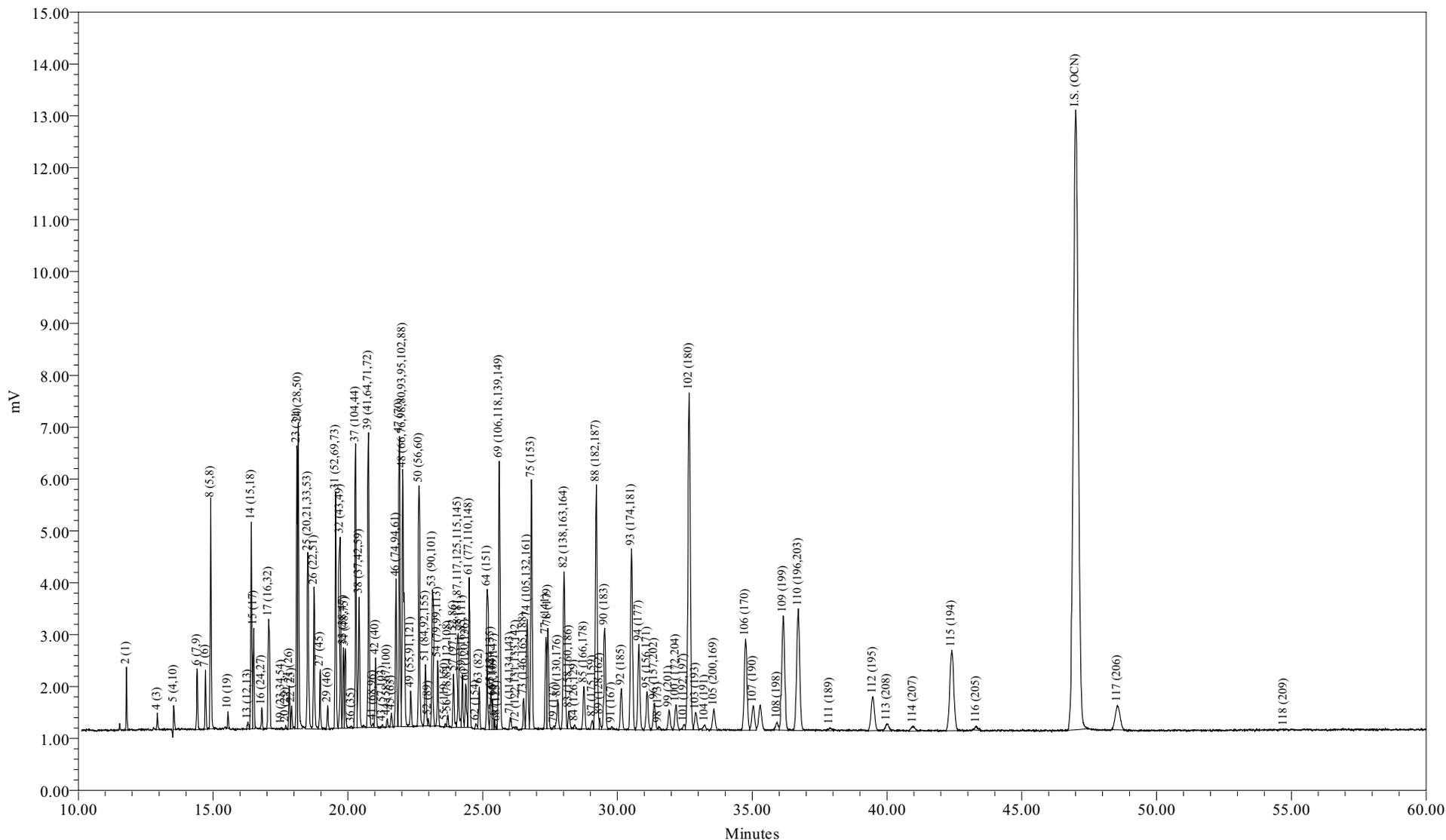
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: CCCS0903B  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 09/03/2009 19:23:48 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-781-10

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/03/2009 19:23:48  
 Lab Sample ID: CCCS0903B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-781-10

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 133 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.19	16.56
Di	13.16	16.39
Tri	18.57	20.12
Tetra	21.20	20.33
Penta	7.95	6.76
Hexa	7.59	5.92
Hepta	12.75	9.02
Octa	6.96	4.52
Nona	0.63	0.38
Deca	0.01	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Biota
A1221	2/001	9.3585	39.5	32.4
A1242	23+24/31+28	6.9082	29.2	23.9
A1254SED	61/100	1.6021	6.77	
A1254BIO	69+75+82/149+153+138	6.8015		23.6
A1260	102/180	4.4648	18.9	15.5
A1268	115/194	1.3312	5.63	4.61

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 2.07

Total Cl / biphenyl Residue = 3.63

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/03/2009 19:23:48  
 Lab Sample ID: CCCS0903B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-781-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2242	9.36	49.6			
3	12.83	188.7		-	-			
4	12.93	188.7	692	5.50	29.2			
5	13.54	223.1	1205	2.36	10.6			
6	14.41	223.1	3463	0.898	4.02			
7	14.72	223.1	2621	1.40	6.27			
8	14.91	223.1	11597	11.8	52.8			
9	15.48	223.1		-	-			
10	15.55	257.5	736	0.242	0.939			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.30	223.1	452	0.190	0.852			
14	16.42	249.0	10858	3.40	13.6			
15	16.51	257.5	5184	3.34	13.0			
16	16.81	257.5	1170	0.250	0.970			
17	17.06	257.5	9375	3.47	13.5			
19	17.54	267.9	118	0.0353	0.132			
20	17.70	257.5	114	0.0202	0.0784			
21	17.83	257.5	2340	0.645	2.51			
22	17.91	257.5	1265	0.231	0.897			
23	18.11	257.5	14352	3.29	12.8			
24	18.16	257.5	17379	3.62	14.1			
25	18.52	259.5	12687	3.38	13.0			
26	18.75	258.7	8377	2.43	9.40			
27	18.97	292.0	3370	0.794	2.72			
28	19.12	257.5		-	-			
29	19.25	292.0	1293	0.331	1.13			
30	19.39	257.5		-	-			
31	19.55	292.0	13339	4.39	15.0			
32	19.72	292.0	10778	1.82	6.22			
33	19.83	292.0	4405	0.530	1.82			
34	19.90	292.0	4738	0.774	2.65			
35	20.04	292.0		-	-			
36	20.13	257.5	148	0.0626	0.243			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	16003	3.46	11.9			
38	20.42	272.4	9153	2.39	8.79			
39	20.77	292.0	17792	3.00	10.3			
41	20.93	326.4	264	0.0709	0.217			
42	21.03	292.0	4058	0.807	2.77			
43	21.29	298.9	122	0.0240	0.0803			
44	21.46	298.9	493	0.0764	0.256			
45	21.62	292.0	857	0.123	0.420			
46	21.79	292.0	8858	1.05	3.61			
47	21.92	292.0	17331	2.53	8.67			
48	22.04	293.5	23417	5.11	17.4			
49	22.33	324.7	2263	0.398	1.23			
50	22.64	292.0	15274	2.24	7.67			
51	22.88	326.4	4567	1.67	5.12			
52	22.98	326.4	333	0.0539	0.165			
53	23.14	326.4	8235	1.41	4.32			
54	23.34	326.4	3798	0.413	1.27			
55	23.61	326.4	172	0.0107	0.0328			
56	23.71	326.4	646	0.112	0.342			
57	23.92	326.4	3430	0.419	1.28			
58	24.10	326.4	6042	0.946	2.90			
59	24.25	326.4	3147	0.396	1.21			
60	24.37	360.9	3107	0.482	1.34			
61	24.50	326.4	9361	1.60	4.91			
62	24.75	360.9	414	0.0693	0.192			
63	24.87	326.4	2582	0.324	0.993			
64	25.17	360.9	8647	1.33	3.67			
65	25.30	350.5	2487	0.229	0.652			
66	25.37	360.9	1860	0.439	1.22			
67	25.43	336.8	526	0.0836	0.248			
68	25.53	326.4	149	0.0231	0.0708			
69	25.62	337.5	20749	2.86	8.48			
70	25.74	360.9		-	-			
71	26.03	347.8	944	0.112	0.323			
72	26.24	336.8	162	0.00942	0.0280			
73	26.52	360.9	2046	0.249	0.689			
74	26.65	347.8	8660	0.935	2.69			
75	26.81	360.9	18438	2.07	5.73			
76	26.93	360.9		-	-			
77	27.35	360.9	6756	1.21	3.34			
78	27.42	395.3	7637	1.10	2.79			
79	27.65	360.9	205	0.0288	0.0797			
80	27.79	360.9	2509	0.164	0.455			
82	28.02	360.9	15190	1.87	5.18			
83	28.20	360.9	1468	0.140	0.387			
84	28.42	360.9	239	0.00412	0.0114			
85	28.76	395.3	3685	0.807	2.04			
87	29.07	395.3	717	0.127	0.322			
88	29.22	395.3	22236	2.78	7.02			
89	29.34	360.9	645	0.0480	0.133			
90	29.53	395.3	9607	1.24	3.15			
91	29.79	360.9	176	0.0119	0.0331			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.15	394.3	3942	0.348	0.882			
93	30.52	394.3	18451	2.38	6.04			
94	30.80	394.3	8779	1.28	3.25			
95	31.10	382.2	4071	0.553	1.45			
96	31.37	429.8	2845	0.0552	0.129			
98	31.53	395.3	241	0.0219	0.0554			
99	31.92	429.8	2038	0.297	0.690			
100	32.17	395.3	2703	0.403	1.02			
101	32.47	429.8	507	0.0750	0.174			
102	32.66	395.3	39571	4.46	11.3			
103	32.90	395.3	2101	0.287	0.726			
104	33.25	395.3	613	0.0806	0.204			
105	33.58	429.8	2533	0.334	0.776			
106	34.75	395.3	12269	0.915	2.32			
107	35.04	395.3	3372	0.299	0.756			
108	35.92	429.8	941	0.0853	0.199			
109	36.15	429.8	16981	3.29	7.65			
110	36.71	429.8	18577	3.30	7.67			
111	37.88	395.3	469	0.0398	0.101			
112	39.48	429.8	5940	0.401	0.932			
113	40.00	464.2	1301	0.243	0.523			
114	40.97	464.2	977	0.0895	0.193			
115	42.40	429.8	16128	1.33	3.10			
116	43.32	429.8	576	0.0770	0.179			
117	48.55	464.2	5819	0.509	1.10			
118	54.72	498.6	63	0.00691	0.0139			

Total Concentration = 133 ng/mL

Total Nanomoles = 0.475

Average Molecular Weight = 279.2

Number of Calibrated Peaks Found = 103

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 152671.3

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/03/2009 19:23:48  
 Lab Sample ID: CCCS0903B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-781-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	7.049	10.432
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003	0.2751	4	4.144	6.133
5	13.54	2:2	004 010	0.2881	2-2; 26	1.776	2.223
6	14.41	2:1	007 009	0.3066	24; 25	0.676	0.847
7	14.72	2:1	006	0.3132	2-3	1.054	1.319
8	14.91	2:1	005 008	0.3172	23; 2-4	8.873	11.107
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	0.182	0.198
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.30	2:0	012 013	0.3468	34; 3-4	0.143	0.179
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	2.557	2.868
15	16.51	3:2	017	0.3513	24-2	2.515	2.727
16	16.81	3:2	024 027	0.3577	236; 26-3	0.188	0.204
17	17.06	3:2	016 032	0.3630	23-2; 26-4	2.616	2.837
19	17.54	3:1 4:4	023 034 054	0.3732	235; 35-2; 26-26	0.027	0.028
20	17.70	3:1	029	0.3766	245	0.015	0.017
21	17.83	3:1	026	0.3794	25-3	0.486	0.527
22	17.91	3:1	025	0.3811	24-3	0.174	0.189
23	18.11	3:1	031	0.3853	25-4	2.478	2.688
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	2.725	2.956
25	18.52	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.545	2.739
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	1.831	1.976
27	18.97	4:3	045	0.4036	236-2	0.598	0.572
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4096	23-26	0.249	0.238
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.304	3.160
32	19.72	4:2	043 049	0.4196	235-2; 24-25	1.368	1.309
33	19.83	4:2	038 047	0.4219	345; 24-24	0.400	0.382
34	19.90	4:2	048 075	0.4234	245-2; 246-4	0.583	0.558
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035	0.4283	34-3	0.047	0.051
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	2.607	2.493
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.803	1.848
39	20.77	4:2	041 064 071 072	0.4419	234-2; 236-4; 26-34; 25-35	2.262	2.163

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096	0.4453	24-35; 236-26	0.053	0.046
42	21.03	4:2	040	0.4474	23-23	0.608	0.582
43	21.29	4:1 5:3	057 103	0.4530	235-3; 246-25	0.018	0.017
44	21.46	4:1 5:3	058 067 100	0.4566	23-35; 245-3; 246-24	0.058	0.054
45	21.62	4:1	063	0.4600	235-4	0.092	0.088
46	21.79	4:1 5:3	074 094 061	0.4636	245-4; 235-26; 2345	0.795	0.760
47	21.92	4:1	070	0.4664	25-34	1.908	1.824
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.850	3.663
49	22.33	4:1 5:3	055 091 121	0.4751	234-3; 236-24; 246-35	0.300	0.258
50	22.64	4:1	056 060	0.4817	23-34; 234-4	1.687	1.613
51	22.88	5:3 6:4	084 092 155	0.4868	236-23; 235-25; 246-246	1.259	1.077
52	22.98	5:3	089	0.4889	234-26	0.041	0.035
53	23.14	5:2	090 101	0.4923	235-24; 245-25	1.062	0.908
54	23.34	5:2	079 099 113	0.4966	34-35; 245-24; 236-35	0.311	0.266
55	23.61	5:2 6:4	119 150	0.5023	246-34; 236-246	0.008	0.007
56	23.71	5:2	078 083 112 108	0.5045	345-3; 235-23; 2356-3; 2346-3	0.084	0.072
57	23.92	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	0.316	0.270
58	24.10	5:2	081 087 117 125 115 145	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.713	0.610
59	24.25	5:2	116 085 111	0.5160	23456; 234-24; 235-35	0.298	0.255
60	24.37	6:4	120 136	0.5185	245-35; 236-236	0.363	0.281
61	24.50	5:2	077 110 148	0.5213	34-34; 236-34; 235-246	1.207	1.032
62	24.75	6:3	154	0.5266	245-246	0.052	0.040
63	24.87	5:2	082	0.5291	234-23	0.244	0.209
64	25.17	6:3	151	0.5355	2356-25	0.999	0.773
65	25.30	5:1 6:3	124 135	0.5383	345-25; 235-236	0.172	0.137
66	25.37	6:3	144	0.5398	2346-25	0.331	0.256
67	25.43	5:1 6:3	107 109 147	0.5411	234-35; 235-34; 2356-24	0.063	0.052
68	25.53	5:1	123	0.5432	345-24	0.017	0.015
69	25.62	5:1 6:3	106 118 139 149	0.5451	2345-3; 245-34; 2346-24; 236-245	2.157	1.785
70	25.74	6:3	140		234-246	-	-
71	26.03	5:1 6:3	114 134 143	0.5538	2345-4; 2356-23; 2345-26	0.085	0.068
72	26.24	5:1 6:3	122 131 133 142	0.5583	345-23; 2346-23; 235-235; 23456-2	0.007	0.006
73	26.52	6:2	146 165 188	0.5643	235-245; 2356-35; 2356-246	0.187	0.145
74	26.65	5:1 6:3	105 132 161	0.5670	234-34; 234-236; 2346-35	0.704	0.565
75	26.81	6:2	153	0.5704	245-245	1.559	1.206
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141	0.5819	2345-25	0.909	0.703
78	27.42	7:4	179	0.5834	2356-236	0.831	0.587
79	27.65	6:2	137	0.5883	2345-24	0.022	0.017
80	27.79	6:2 7:4	130 176	0.5913	234-235; 2346-236	0.124	0.096
82	28.02	6:2	138 163 164	0.5962	234-245; 2356-34; 236-345	1.407	1.089
83	28.20	6:2	158 160 186	0.6000	2346-34; 23456-3; 23456-26	0.105	0.081
84	28.42	6:2	126 129	0.6047	345-34; 2345-23	0.003	0.002
85	28.76	7:3	166 178	0.6119	23456-4; 2356-235	0.608	0.429
87	29.07	7:3	175 159	0.6185	2346-235; 2345-35	0.096	0.068
88	29.22	7:3	182 187	0.6217	2345-246; 2356-245	2.091	1.477
89	29.34	6:2	128 162	0.6243	234-234; 235-345	0.036	0.028
90	29.53	7:3	183	0.6283	2346-245	0.937	0.662
91	29.79	6:1	167	0.6338	245-345	0.009	0.007
92	30.15	7:3	185	0.6415	23456-25	0.262	0.186
93	30.52	7:3	174 181	0.6494	2345-236; 23456-24	1.793	1.270
94	30.80	7:3	177	0.6553	2356-234	0.965	0.684
95	31.10	6:1 7:3	156 171	0.6617	2345-34; 2346-234	0.417	0.305
96	31.37	8:4	157 202	0.6674	234-345; 2356-2356	0.042	0.027
98	31.53	7:3	173	0.6709	23456-23	0.016	0.012
99	31.92	8:4	201	0.6791	2346-2356	0.223	0.145
100	32.17	7:2	172 204	0.6845	2345-235; 23456-246	0.304	0.215
101	32.47	8:4	192 197	0.6909	23456-35; 2346-2346	0.056	0.037
102	32.66	7:2	180	0.6949	2345-245	3.363	2.376
103	32.90	7:2	193	0.7000	2356-345	0.216	0.153
104	33.25	7:2	191	0.7074	2346-345	0.061	0.043
105	33.58	8:4	200 169	0.7145	23456-236; 345-345	0.251	0.163
106	34.75	7:2	170	0.7394	2345-234	0.689	0.487

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>	0.7455	23456-34	0.225	0.159
108	35.92	8:3	<b>198</b>	0.7643	23456-235	0.064	0.042
109	36.15	8:3	<b>199</b>	0.7691	2345-2356	2.475	1.608
110	36.71	8:3	<b>196 203</b>	0.7811	2345-2346; 23456-245	2.484	1.614
111	37.88	7:1	<b>189</b>	0.8060	2345-345	0.030	0.021
112	39.48	8:3	<b>195</b>	0.8400	23456-234	0.302	0.196
113	40.00	9:4	<b>208</b>	0.8511	23456-2356	0.183	0.110
114	40.97	9:4	<b>207</b>	0.8717	23456-2346	0.067	0.041
115	42.40	8:2	<b>194</b>	0.9021	2345-2345	1.003	0.651
116	43.32	8:2	<b>205</b>	0.9217	23456-345	0.058	0.038
117	48.55	9:3	<b>206</b>	1.033	23456-2345	0.383	0.231
118	54.72	10:4	<b>209</b>	1.164	23456-23456	0.005	0.003

Concentration = 133 ng/mL

Total Nanomoles = 0.475

Average Molecular Weight = 279.2

Number of Calibrated Peaks Found = 103

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

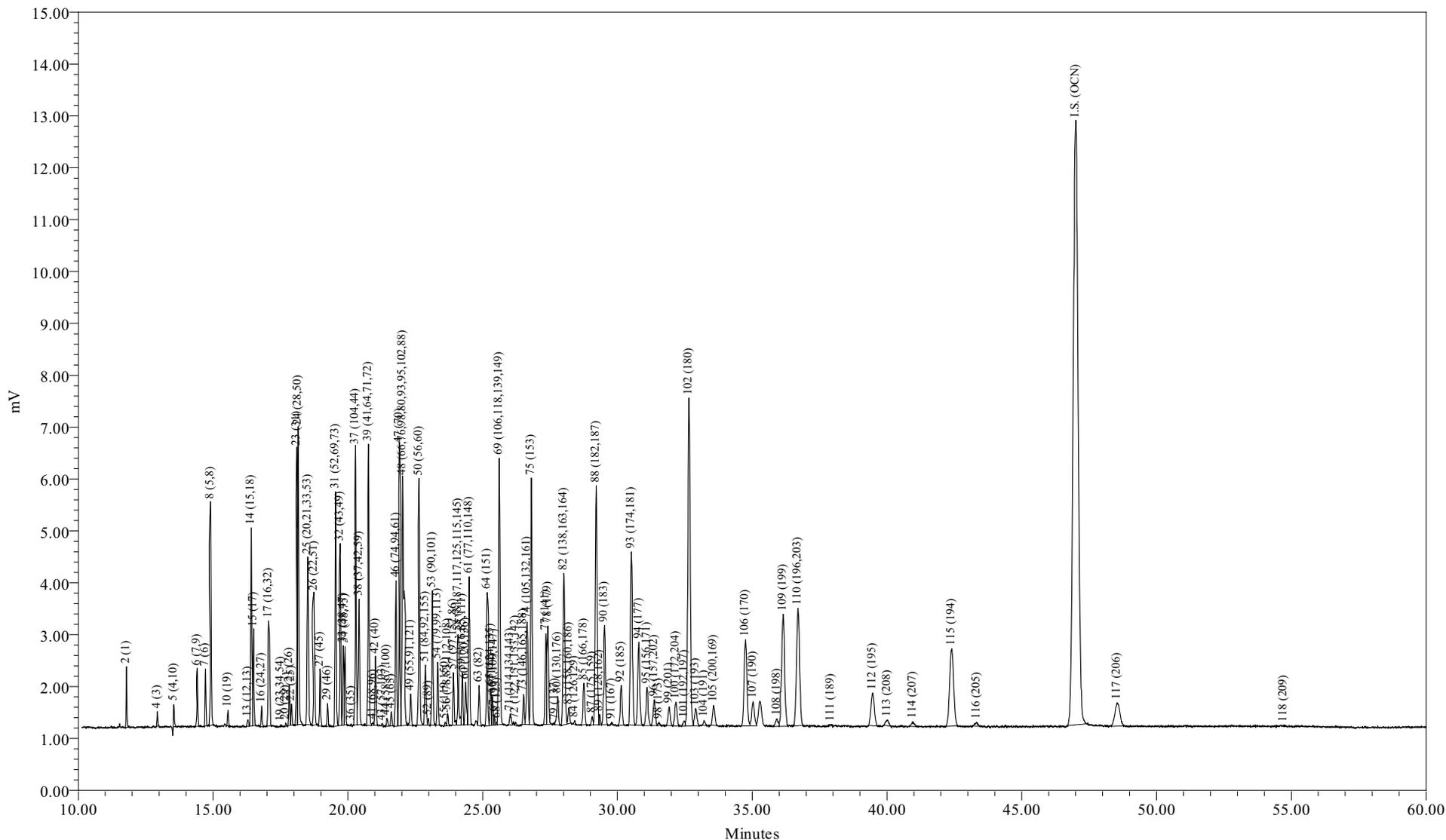
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: CCCS0905A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 09/05/2009 11:59:33 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-783-3

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 11:59:33  
 Lab Sample ID: CCCS0905A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-783-3

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 130 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.62	15.77
Di	13.11	16.38
Tri	18.51	20.13
Tetra	21.58	20.77
Penta	8.16	6.96
Hexa	7.59	5.94
Hepta	12.86	9.13
Octa	7.00	4.56
Nona	0.58	0.35
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Biota
A1221	2/001	9.2609	39.5	32.4
A1242	23+24/31+28	6.7859	28.9	23.7
A1254SED	61/100	1.6265	6.93	
A1254BIO	69+75+82/149+153+138	6.7724		23.7
A1260	102/180	4.4741	19.1	15.6
A1268	115/194	1.3062	5.57	4.57

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.08

Total Cl / biphenyl Residue = 3.66

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 11:59:33  
 Lab Sample ID: CCCS0905A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-783-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2170	9.26	49.1			
3	12.83	188.7		-	-			
4	12.93	188.7	563	4.56	24.2			
5	13.54	223.1	1166	2.33	10.5			
6	14.41	223.1	3235	0.858	3.85			
7	14.72	223.1	2446	1.33	5.98			
8	14.91	223.1	11096	11.5	51.7			
9	15.48	223.1		-	-			
10	15.56	257.5	741	0.249	0.967			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.30	223.1	415	0.179	0.802			
14	16.42	249.0	10536	3.37	13.5			
15	16.50	257.5	5097	3.36	13.0			
16	16.80	257.5	1132	0.247	0.960			
17	17.06	257.5	9101	3.45	13.4			
19	17.52	267.9	81	0.0250	0.0933			
20	17.70	257.5	119	0.0215	0.0836			
21	17.83	257.5	2128	0.600	2.33			
22	17.91	257.5	1079	0.201	0.782			
23	18.11	257.5	13804	3.24	12.6			
24	18.16	257.5	16680	3.55	13.8			
25	18.51	259.5	11881	3.23	12.5			
26	18.74	258.7	7752	2.30	8.89			
27	18.97	292.0	3083	0.743	2.54			
28	19.12	257.5		-	-			
29	19.25	292.0	1188	0.311	1.06			
30	19.39	257.5		-	-			
31	19.55	292.0	13065	4.39	15.0			
32	19.71	292.0	10472	1.80	6.18			
33	19.83	292.0	4251	0.523	1.79			
34	19.89	292.0	4432	0.740	2.53			
35	20.04	292.0		-	-			
36	20.13	257.5	100	0.0433	0.168			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.28	292.0	15628	3.46	11.8			
38	20.42	272.4	8680	2.32	8.52			
39	20.77	292.0	17490	3.02	10.3			
41	20.93	326.4	204	0.0560	0.172			
42	21.03	292.0	3865	0.787	2.69			
43	21.28	298.9	146	0.0293	0.0980			
44	21.45	298.9	560	0.0886	0.296			
45	21.61	292.0	831	0.122	0.417			
46	21.79	292.0	8838	1.08	3.69			
47	21.92	292.0	17162	2.56	8.78			
48	22.03	293.5	23095	5.15	17.6			
49	22.33	324.7	2091	0.376	1.16			
50	22.64	292.0	15095	2.26	7.75			
51	22.88	326.4	4483	1.68	5.14			
52	22.98	326.4	325	0.0538	0.165			
53	23.14	326.4	8249	1.44	4.42			
54	23.33	326.4	3833	0.426	1.31			
55	23.61	326.4	214	0.0136	0.0416			
56	23.70	326.4	691	0.122	0.374			
57	23.92	326.4	3333	0.416	1.28			
58	24.09	326.4	5972	0.956	2.93			
59	24.25	326.4	3110	0.400	1.23			
60	24.37	360.9	3015	0.478	1.33			
61	24.50	326.4	9295	1.63	4.98			
62	24.79	360.9		-	-			
63	24.87	326.4	2602	0.334	1.02			
64	25.17	360.9	8483	1.33	3.69			
65	25.30	350.5	2383	0.224	0.639			
66	25.36	360.9	1813	0.438	1.21			
67	25.43	336.8	512	0.0832	0.247			
68	25.54	326.4	129	0.0204	0.0626			
69	25.62	337.5	20174	2.85	8.44			
70	25.74	360.9		-	-			
71	26.02	347.8	916	0.112	0.321			
72	26.22	336.8	231	0.0137	0.0407			
73	26.52	360.9	1922	0.239	0.662			
74	26.65	347.8	8353	0.922	2.65			
75	26.81	360.9	17957	2.06	5.71			
76	26.93	360.9		-	-			
77	27.35	360.9	6309	1.15	3.19			
78	27.42	395.3	7592	1.12	2.84			
79	27.68	360.9	118	0.0168	0.0466			
80	27.79	360.9	2451	0.164	0.454			
82	28.01	360.9	14825	1.86	5.17			
83	28.20	360.9	1225	0.119	0.329			
84	28.42	360.9	198	0.00351	0.00972			
85	28.76	395.3	3494	0.782	1.98			
87	29.07	395.3	592	0.108	0.272			
88	29.21	395.3	21526	2.75	6.95			
89	29.33	360.9	709	0.0538	0.149			
90	29.52	395.3	9175	1.21	3.07			
91	29.79	360.9	140	0.00981	0.0272			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.14	394.3	3764	0.340	0.861			
93	30.52	394.3	17831	2.35	5.96			
94	30.80	394.3	8382	1.25	3.17			
95	31.10	382.2	3996	0.555	1.45			
96	31.37	429.8	2738	0.0543	0.126			
98	31.54	395.3	295	0.0276	0.0698			
99	31.92	429.8	1923	0.286	0.666			
100	32.17	395.3	2651	0.404	1.02			
101	32.49	429.8	523	0.0791	0.184			
102	32.66	395.3	38779	4.47	11.3			
103	32.90	395.3	2089	0.292	0.738			
104	33.22	395.3	439	0.0590	0.149			
105	33.58	429.8	2324	0.313	0.728			
106	34.75	395.3	11942	0.911	2.30			
107	35.03	395.3	3232	0.293	0.741			
108	35.92	429.8	1002	0.0932	0.217			
109	36.15	429.8	16599	3.28	7.64			
110	36.70	429.8	17858	3.24	7.54			
111	37.93	395.3	235	0.0202	0.0512			
112	39.47	429.8	5493	0.379	0.881			
113	40.02	464.2	895	0.170	0.366			
114	40.96	464.2	665	0.0625	0.135			
115	42.41	429.8	15481	1.31	3.04			
116	43.34	429.8	560	0.0765	0.178			
117	48.54	464.2	5797	0.518	1.12			
118	54.72	498.6	21	0.00249	0.00499			

Total Concentration = 130 ng/mL

Total Nanomoles = 0.465

Average Molecular Weight = 280.3

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.01 minutes

Internal Standard Peak Area = 149309.1

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 11:59:33  
 Lab Sample ID: CCCS0905A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-783-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2508	2	7.113	10.564
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003	0.2750	4	3.506	5.207
5	13.54	2:2	004 010	0.2880	2-2; 26	1.791	2.250
6	14.41	2:1	007 009	0.3065	24; 25	0.659	0.828
7	14.72	2:1	006	0.3131	2-3	1.025	1.287
8	14.91	2:1	005 008	0.3172	23; 2-4	8.852	11.120
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019	0.3310	26-2	0.191	0.208
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.30	2:0	012 013	0.3467	34; 3-4	0.137	0.173
14	16.42	2:0 3:2	015 018	0.3493	4-4; 25-2	2.587	2.912
15	16.50	3:2	017	0.3510	24-2	2.578	2.806
16	16.80	3:2	024 027	0.3574	236; 26-3	0.190	0.207
17	17.06	3:2	016 032	0.3629	23-2; 26-4	2.648	2.882
19	17.52	3:1 4:4	023 034 054	0.3727	235; 35-2; 26-26	0.019	0.020
20	17.70	3:1	029	0.3765	245	0.017	0.018
21	17.83	3:1	026	0.3793	25-3	0.461	0.502
22	17.91	3:1	025	0.3810	24-3	0.155	0.168
23	18.11	3:1	031	0.3852	25-4	2.485	2.705
24	18.16	3:1 4:3	028 050	0.3863	24-4; 246-2	2.727	2.968
25	18.51	3:1 4:3	020 021 033 053	0.3937	23-3; 234; 34-2; 25-26	2.484	2.683
26	18.74	3:1 4:3	022 051	0.3986	23-4; 24-26	1.766	1.913
27	18.97	4:3	045	0.4035	236-2	0.570	0.547
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4095	23-26	0.238	0.229
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4159	25-25; 246-3; 26-35	3.374	3.239
32	19.71	4:2	043 049	0.4193	235-2; 24-25	1.386	1.330
33	19.83	4:2	038 047	0.4218	345; 24-24	0.402	0.386
34	19.89	4:2	048 075	0.4231	245-2; 246-4	0.568	0.546
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035	0.4282	34-3	0.033	0.036
37	20.28	5:4 4:2	104 044	0.4314	246-26; 23-25	2.654	2.548
38	20.42	3:0 4:2	037 042 059	0.4344	34-4; 23-24; 236-3	1.782	1.834
39	20.77	4:2	041 064 071 072	0.4418	234-2; 236-4; 26-34; 25-35	2.318	2.225

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096	0.4452	24-35; 236-26	0.043	0.037
42	21.03	4:2	040	0.4474	23-23	0.604	0.580
43	21.28	4:1 5:3	057 103	0.4527	235-3; 246-25	0.022	0.021
44	21.45	4:1 5:3	058 067 100	0.4563	23-35; 245-3; 246-24	0.068	0.064
45	21.61	4:1	063	0.4597	235-4	0.093	0.090
46	21.79	4:1 5:3	074 094 061	0.4635	245-4; 235-26; 2345	0.827	0.793
47	21.92	4:1	070	0.4663	25-34	1.970	1.890
48	22.03	4:1 5:3	066 076 098 080 093 095 102 088	0.4686	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.959	3.780
49	22.33	4:1 5:3	055 091 121	0.4750	234-3; 236-24; 246-35	0.289	0.249
50	22.64	4:1	056 060	0.4816	23-34; 234-4	1.738	1.668
51	22.88	5:3 6:4	084 092 155	0.4867	236-23; 235-25; 246-246	1.289	1.107
52	22.98	5:3	089	0.4888	234-26	0.041	0.036
53	23.14	5:2	090 101	0.4922	235-24; 245-25	1.109	0.952
54	23.33	5:2	079 099 113	0.4963	34-35; 245-24; 236-35	0.327	0.281
55	23.61	5:2 6:4	119 150	0.5022	246-34; 236-246	0.010	0.009
56	23.70	5:2	078 083 112 108	0.5041	345-3; 235-23; 2356-3; 2346-3	0.094	0.080
57	23.92	5:2 6:4	097 152 086	0.5088	245-23; 2356-26; 2345-2	0.320	0.275
58	24.09	5:2	081 087 117 125 115 145	0.5124	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.734	0.631
59	24.25	5:2	116 085 111	0.5158	23456; 234-24; 235-35	0.307	0.264
60	24.37	6:4	120 136	0.5184	245-35; 236-236	0.367	0.285
61	24.50	5:2	077 110 148	0.5212	34-34; 236-34; 235-246	1.249	1.073
62	24.79	6:3	154		245-246	-	-
63	24.87	5:2	082	0.5290	234-23	0.257	0.220
64	25.17	6:3	151	0.5354	2356-25	1.022	0.793
65	25.30	5:1 6:3	124 135	0.5382	345-25; 235-236	0.172	0.137
66	25.36	6:3	144	0.5395	2346-25	0.336	0.261
67	25.43	5:1 6:3	107 109 147	0.5409	234-35; 235-34; 2356-24	0.064	0.053
68	25.54	5:1	123	0.5433	345-24	0.016	0.013
69	25.62	5:1 6:3	106 118 139 149	0.5450	2345-3; 245-34; 2346-24; 236-245	2.187	1.816
70	25.74	6:3	140		234-246	-	-
71	26.02	5:1 6:3	114 134 143	0.5535	2345-4; 2356-23; 2345-26	0.086	0.069
72	26.22	5:1 6:3	122 131 133 142	0.5578	345-23; 2346-23; 235-235; 23456-2	0.011	0.009
73	26.52	6:2	146 165 188	0.5641	235-245; 2356-35; 2356-246	0.184	0.143
74	26.65	5:1 6:3	105 132 161	0.5669	234-34; 234-236; 2346-35	0.708	0.571
75	26.81	6:2	153	0.5703	245-245	1.583	1.229
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141	0.5818	2345-25	0.885	0.687
78	27.42	7:4	179	0.5833	2356-236	0.862	0.611
79	27.68	6:2	137	0.5888	2345-24	0.013	0.010
80	27.79	6:2 7:4	130 176	0.5912	234-235; 2346-236	0.126	0.098
82	28.01	6:2	138 163 164	0.5958	234-245; 2356-34; 236-345	1.432	1.112
83	28.20	6:2	158 160 186	0.5999	2346-34; 23456-3; 23456-26	0.091	0.071
84	28.42	6:2	126 129	0.6046	345-34; 2345-23	0.003	0.002
85	28.76	7:3	166 178	0.6118	23456-4; 2356-235	0.601	0.426
87	29.07	7:3	175 159	0.6184	2346-235; 2345-35	0.083	0.059
88	29.21	7:3	182 187	0.6214	2345-246; 2356-245	2.110	1.496
89	29.33	6:2	128 162	0.6239	234-234; 235-345	0.041	0.032
90	29.52	7:3	183	0.6280	2346-245	0.933	0.661
91	29.79	6:1	167	0.6337	245-345	0.008	0.006
92	30.14	7:3	185	0.6411	23456-25	0.261	0.185
93	30.52	7:3	174 181	0.6492	2345-236; 23456-24	1.806	1.284
94	30.80	7:3	177	0.6552	2356-234	0.961	0.683
95	31.10	6:1 7:3	156 171	0.6616	2345-34; 2346-234	0.427	0.313
96	31.37	8:4	157 202	0.6673	234-345; 2356-2356	0.042	0.027
98	31.54	7:3	173	0.6709	23456-23	0.021	0.015
99	31.92	8:4	201	0.6790	2346-2356	0.220	0.143
100	32.17	7:2	172 204	0.6843	2345-235; 23456-246	0.310	0.220
101	32.49	8:4	192 197	0.6911	23456-35; 2346-2346	0.061	0.040
102	32.66	7:2	180	0.6947	2345-245	3.436	2.436
103	32.90	7:2	193	0.6999	2356-345	0.224	0.159
104	33.22	7:2	191	0.7067	2346-345	0.045	0.032
105	33.58	8:4	200 169	0.7143	23456-236; 345-345	0.240	0.157
106	34.75	7:2	170	0.7392	2345-234	0.700	0.496

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.03	7:2	<b>190</b>	0.7452	23456-34	0.225	0.160
108	35.92	8:3	<b>198</b>	0.7641	23456-235	0.072	0.047
109	36.15	8:3	<b>199</b>	0.7690	2345-2356	2.522	1.645
110	36.70	8:3	<b>196 203</b>	0.7807	2345-2346; 23456-245	2.489	1.623
111	37.93	7:1	<b>189</b>	0.8068	2345-345	0.016	0.011
112	39.47	8:3	<b>195</b>	0.8396	23456-234	0.291	0.190
113	40.02	9:4	<b>208</b>	0.8513	23456-2356	0.131	0.079
114	40.96	9:4	<b>207</b>	0.8713	23456-2346	0.048	0.029
115	42.41	8:2	<b>194</b>	0.9021	2345-2345	1.003	0.654
116	43.34	8:2	<b>205</b>	0.9219	23456-345	0.059	0.038
117	48.54	9:3	<b>206</b>	1.033	23456-2345	0.398	0.240
118	54.72	10:4	<b>209</b>	1.164	23456-23456	0.002	0.001

Concentration = 130 ng/mL

Total Nanomoles = 0.465

Average Molecular Weight = 280.3

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

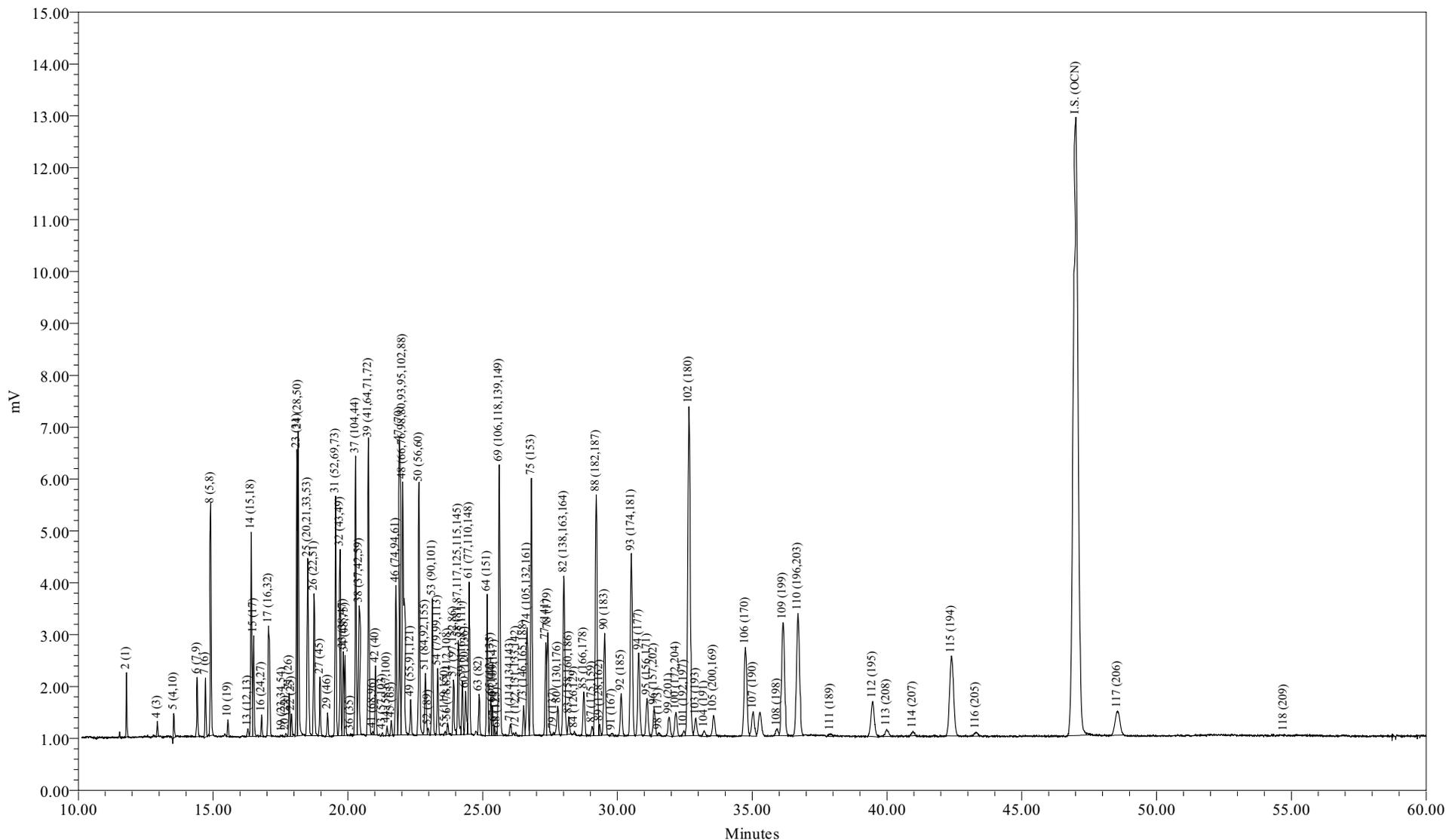
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: CCCS0905B  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 09/05/2009 21:52:24 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-783-10

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 21:52:24  
 Lab Sample ID: CCCS0905B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-783-10

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 132 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.53	15.64
Di	13.29	16.60
Tri	18.65	20.27
Tetra	21.45	20.63
Penta	8.17	6.97
Hexa	7.54	5.90
Hepta	12.79	9.08
Octa	6.98	4.55
Nona	0.59	0.36
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Percent Biota
A1221	2/001	9.0760	38.7	31.7
A1242	23+24/31+28	6.9387	29.6	24.2
A1254SED	61/100	1.6408	6.99	
A1254BIO	69+75+82/149+153+138	6.8389		23.9
A1260	102/180	4.4843	19.1	15.6
A1268	115/194	1.3218	5.63	4.61

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.08

Total Cl / biphenyl Residue = 3.66

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 21:52:24  
 Lab Sample ID: CCCS0905B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-783-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2169	9.08	48.1			
3	12.83	188.7		-	-			
4	12.93	188.7	609	4.85	25.7			
5	13.54	223.1	1335	2.62	11.7			
6	14.41	223.1	3377	0.878	3.94			
7	14.72	223.1	2699	1.45	6.48			
8	14.91	223.1	11368	11.6	51.9			
9	15.48	223.1		-	-			
10	15.55	257.5	801	0.264	1.03			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.29	223.1	475	0.200	0.897			
14	16.41	249.0	10931	3.43	13.8			
15	16.50	257.5	5273	3.41	13.2			
16	16.80	257.5	1114	0.239	0.927			
17	17.06	257.5	9394	3.49	13.6			
19	17.57	267.9	93	0.0280	0.105			
20	17.70	257.5	164	0.0290	0.112			
21	17.82	257.5	2287	0.632	2.46			
22	17.91	257.5	1280	0.234	0.910			
23	18.11	257.5	14409	3.31	12.9			
24	18.16	257.5	17367	3.63	14.1			
25	18.51	259.5	12506	3.34	12.9			
26	18.74	258.7	8189	2.38	9.21			
27	18.97	292.0	3186	0.753	2.58			
28	19.12	257.5		-	-			
29	19.25	292.0	1286	0.330	1.13			
30	19.39	257.5		-	-			
31	19.55	292.0	13361	4.41	15.1			
32	19.72	292.0	10842	1.83	6.28			
33	19.83	292.0	4475	0.541	1.85			
34	19.89	292.0	4658	0.763	2.61			
35	20.04	292.0		-	-			
36	20.10	257.5	85	0.0361	0.140			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	16156	3.50	12.0			
38	20.42	272.4	8918	2.34	8.58			
39	20.76	292.0	17842	3.02	10.3			
41	20.93	326.4	187	0.0504	0.154			
42	21.03	292.0	3963	0.791	2.71			
43	21.29	298.9	185	0.0364	0.122			
44	21.45	298.9	568	0.0882	0.295			
45	21.61	292.0	881	0.126	0.433			
46	21.78	292.0	8938	1.07	3.66			
47	21.92	292.0	17611	2.58	8.84			
48	22.03	293.5	23717	5.19	17.7			
49	22.33	324.7	2203	0.389	1.20			
50	22.64	292.0	15556	2.29	7.83			
51	22.87	326.4	4715	1.73	5.30			
52	22.98	326.4	388	0.0630	0.193			
53	23.14	326.4	8532	1.46	4.49			
54	23.33	326.4	4038	0.441	1.35			
55	23.61	326.4	201	0.0125	0.0383			
56	23.70	326.4	660	0.114	0.351			
57	23.92	326.4	3504	0.429	1.31			
58	24.09	326.4	6211	0.975	2.99			
59	24.25	326.4	3241	0.409	1.25			
60	24.37	360.9	3122	0.486	1.35			
61	24.50	326.4	9562	1.64	5.03			
62	24.79	360.9	-	-	-			
63	24.87	326.4	2523	0.318	0.973			
64	25.17	360.9	8605	1.32	3.67			
65	25.30	350.5	2486	0.229	0.654			
66	25.36	360.9	1772	0.419	1.16			
67	25.43	336.8	553	0.0881	0.262			
68	25.53	326.4	176	0.0272	0.0834			
69	25.62	337.5	20804	2.88	8.53			
70	25.74	360.9	-	-	-			
71	26.03	347.8	969	0.116	0.333			
72	26.23	336.8	235	0.0137	0.0406			
73	26.52	360.9	2049	0.250	0.692			
74	26.65	347.8	8729	0.945	2.72			
75	26.81	360.9	18565	2.09	5.79			
76	26.93	360.9	-	-	-			
77	27.35	360.9	6564	1.18	3.26			
78	27.42	395.3	7879	1.14	2.89			
79	27.63	360.9	133	0.0186	0.0516			
80	27.79	360.9	2435	0.160	0.443			
82	28.02	360.9	15157	1.87	5.18			
83	28.20	360.9	1302	0.124	0.343			
84	28.40	360.9	162	0.00284	0.00788			
85	28.75	395.3	3783	0.830	2.10			
87	29.06	395.3	743	0.132	0.334			
88	29.21	395.3	22173	2.78	7.02			
89	29.34	360.9	752	0.0559	0.155			
90	29.53	395.3	9485	1.23	3.11			
91	29.79	360.9	278	0.0187	0.0518			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.14	394.3	3927	0.348	0.881			
93	30.51	394.3	18435	2.38	6.05			
94	30.79	394.3	8401	1.23	3.12			
95	31.10	382.2	4016	0.548	1.43			
96	31.36	429.8	2831	0.0551	0.128			
98	31.53	395.3	254	0.0231	0.0585			
99	31.92	429.8	2096	0.306	0.712			
100	32.17	395.3	2688	0.402	1.02			
101	32.47	429.8	470	0.0697	0.162			
102	32.66	395.3	39630	4.48	11.3			
103	32.91	395.3	1983	0.272	0.687			
104	33.22	395.3	659	0.0868	0.220			
105	33.57	429.8	2407	0.318	0.740			
106	34.75	395.3	12082	0.904	2.29			
107	35.03	395.3	3335	0.297	0.750			
108	35.93	429.8	826	0.0748	0.174			
109	36.14	429.8	16834	3.27	7.60			
110	36.70	429.8	18657	3.32	7.73			
111	37.91	395.3	398	0.0338	0.0856			
112	39.47	429.8	5981	0.404	0.941			
113	39.99	464.2	1147	0.214	0.462			
114	40.97	464.2	583	0.0538	0.116			
115	42.39	429.8	15970	1.32	3.08			
116	43.30	429.8	659	0.0881	0.205			
117	48.55	464.2	5882	0.516	1.11			
118	54.73	498.6	12	0.00148	0.00296			

Total Concentration = 132 ng/mL

Total Nanomoles = 0.472

Average Molecular Weight = 280.1

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.01 minutes

Internal Standard Peak Area = 152242.0

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/05/2009 21:52:24  
 Lab Sample ID: CCCS0905B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-783-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2508	2	6.865	10.190
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003	0.2750	4	3.670	5.448
5	13.54	2:2	004 010	0.2880	2-2; 26	1.981	2.487
6	14.41	2:1	007 009	0.3065	24; 25	0.664	0.834
7	14.72	2:1	006	0.3131	2-3	1.093	1.373
8	14.91	2:1	005 008	0.3172	23; 2-4	8.759	10.997
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3308	26-2	0.200	0.217
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013	0.3465	34; 3-4	0.151	0.190
14	16.41	2:0 3:2	015 018	0.3491	4-4; 25-2	2.592	2.916
15	16.50	3:2	017	0.3510	24-2	2.576	2.802
16	16.80	3:2	024 027	0.3574	236; 26-3	0.181	0.196
17	17.06	3:2	016 032	0.3629	23-2; 26-4	2.640	2.872
19	17.57	3:1 4:4	023 034 054	0.3738	235; 35-2; 26-26	0.021	0.022
20	17.70	3:1	029	0.3765	245	0.022	0.024
21	17.82	3:1	026	0.3791	25-3	0.478	0.520
22	17.91	3:1	025	0.3810	24-3	0.177	0.193
23	18.11	3:1	031	0.3852	25-4	2.505	2.726
24	18.16	3:1 4:3	028 050	0.3863	24-4; 246-2	2.743	2.983
25	18.51	3:1 4:3	020 021 033 053	0.3937	23-3; 234; 34-2; 25-26	2.526	2.727
26	18.74	3:1 4:3	022 051	0.3986	23-4; 24-26	1.802	1.951
27	18.97	4:3	045	0.4035	236-2	0.569	0.546
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4095	23-26	0.249	0.239
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4159	25-25; 246-3; 26-35	3.333	3.197
32	19.72	4:2	043 049	0.4195	235-2; 24-25	1.386	1.330
33	19.83	4:2	038 047	0.4218	345; 24-24	0.409	0.392
34	19.89	4:2	048 075	0.4231	245-2; 246-4	0.577	0.554
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.10	3:0	035	0.4276	34-3	0.027	0.030
37	20.29	5:4 4:2	104 044	0.4316	246-26; 23-25	2.650	2.542
38	20.42	3:0 4:2	037 042 059	0.4344	34-4; 23-24; 236-3	1.769	1.819
39	20.76	4:2	041 064 071 072	0.4416	234-2; 236-4; 26-34; 25-35	2.284	2.191

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096	0.4452	24-35; 236-26	0.038	0.033
42	21.03	4:2	040	0.4474	23-23	0.598	0.574
43	21.29	4:1 5:3	057 103	0.4529	235-3; 246-25	0.028	0.026
44	21.45	4:1 5:3	058 067 100	0.4563	23-35; 245-3; 246-24	0.067	0.062
45	21.61	4:1	063	0.4597	235-4	0.096	0.092
46	21.78	4:1 5:3	074 094 061	0.4633	245-4; 235-26; 2345	0.807	0.774
47	21.92	4:1	070	0.4663	25-34	1.952	1.873
48	22.03	4:1 5:3	066 076 098 080 093 095 102 088	0.4686	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.926	3.747
49	22.33	4:1 5:3	055 091 121	0.4750	234-3; 236-24; 246-35	0.294	0.254
50	22.64	4:1	056 060	0.4816	23-34; 234-4	1.730	1.660
51	22.87	5:3 6:4	084 092 155	0.4865	236-23; 235-25; 246-246	1.309	1.124
52	22.98	5:3	089	0.4888	234-26	0.048	0.041
53	23.14	5:2	090 101	0.4922	235-24; 245-25	1.107	0.950
54	23.33	5:2	079 099 113	0.4963	34-35; 245-24; 236-35	0.333	0.286
55	23.61	5:2 6:4	119 150	0.5022	246-34; 236-246	0.009	0.008
56	23.70	5:2	078 083 112 108	0.5041	345-3; 235-23; 2356-3; 2346-3	0.087	0.074
57	23.92	5:2 6:4	097 152 086	0.5088	245-23; 2356-26; 2345-2	0.325	0.279
58	24.09	5:2	081 087 117 125 115 145	0.5124	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.738	0.633
59	24.25	5:2	116 085 111	0.5158	23456; 234-24; 235-35	0.309	0.265
60	24.37	6:4	120 136	0.5184	245-35; 236-236	0.367	0.285
61	24.50	5:2	077 110 148	0.5212	34-34; 236-34; 235-246	1.241	1.065
62	24.79	6:3	154		245-246	-	-
63	24.87	5:2	082	0.5290	234-23	0.240	0.206
64	25.17	6:3	151	0.5354	2356-25	1.001	0.777
65	25.30	5:1 6:3	124 135	0.5382	345-25; 235-236	0.173	0.138
66	25.36	6:3	144	0.5395	2346-25	0.317	0.246
67	25.43	5:1 6:3	107 109 147	0.5409	234-35; 235-34; 2356-24	0.067	0.055
68	25.53	5:1	123	0.5431	345-24	0.021	0.018
69	25.62	5:1 6:3	106 118 139 149	0.5450	2345-3; 245-34; 2346-24; 236-245	2.178	1.808
70	25.74	6:3	140		234-246	-	-
71	26.03	5:1 6:3	114 134 143	0.5537	2345-4; 2356-23; 2345-26	0.088	0.071
72	26.23	5:1 6:3	122 131 133 142	0.5580	345-23; 2346-23; 235-235; 23456-2	0.010	0.009
73	26.52	6:2	146 165 188	0.5641	235-245; 2356-35; 2356-246	0.189	0.147
74	26.65	5:1 6:3	105 132 161	0.5669	234-34; 234-236; 2346-35	0.715	0.576
75	26.81	6:2	153	0.5703	245-245	1.581	1.227
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141	0.5818	2345-25	0.889	0.690
78	27.42	7:4	179	0.5833	2356-236	0.863	0.612
79	27.63	6:2	137	0.5877	2345-24	0.014	0.011
80	27.79	6:2 7:4	130 176	0.5912	234-235; 2346-236	0.121	0.094
82	28.02	6:2	138 163 164	0.5960	234-245; 2356-34; 236-345	1.414	1.098
83	28.20	6:2	158 160 186	0.5999	2346-34; 23456-3; 23456-26	0.094	0.073
84	28.40	6:2	126 129	0.6041	345-34; 2345-23	0.002	0.002
85	28.75	7:3	166 178	0.6116	23456-4; 2356-235	0.628	0.445
87	29.06	7:3	175 159	0.6182	2346-235; 2345-35	0.100	0.071
88	29.21	7:3	182 187	0.6214	2345-246; 2356-245	2.099	1.488
89	29.34	6:2	128 162	0.6241	234-234; 235-345	0.042	0.033
90	29.53	7:3	183	0.6282	2346-245	0.931	0.660
91	29.79	6:1	167	0.6337	245-345	0.014	0.011
92	30.14	7:3	185	0.6411	23456-25	0.263	0.187
93	30.51	7:3	174 181	0.6490	2345-236; 23456-24	1.804	1.281
94	30.79	7:3	177	0.6550	2356-234	0.930	0.661
95	31.10	6:1 7:3	156 171	0.6616	2345-34; 2346-234	0.414	0.304
96	31.36	8:4	157 202	0.6671	234-345; 2356-2356	0.042	0.027
98	31.53	7:3	173	0.6707	23456-23	0.018	0.012
99	31.92	8:4	201	0.6790	2346-2356	0.231	0.151
100	32.17	7:2	172 204	0.6843	2345-235; 23456-246	0.304	0.215
101	32.47	8:4	192 197	0.6907	23456-35; 2346-2346	0.053	0.034
102	32.66	7:2	180	0.6947	2345-245	3.392	2.403
103	32.91	7:2	193	0.7001	2356-345	0.206	0.146
104	33.22	7:2	191	0.7067	2346-345	0.066	0.047
105	33.57	8:4	200 169	0.7141	23456-236; 345-345	0.240	0.157
106	34.75	7:2	170	0.7392	2345-234	0.684	0.484

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.03	7:2	<b>190</b>	0.7452	23456-34	0.224	0.159
108	35.93	8:3	<b>198</b>	0.7643	23456-235	0.057	0.037
109	36.14	8:3	<b>199</b>	0.7688	2345-2356	2.471	1.610
110	36.70	8:3	<b>196 203</b>	0.7807	2345-2346; 23456-245	2.512	1.637
111	37.91	7:1	<b>189</b>	0.8064	2345-345	0.026	0.018
112	39.47	8:3	<b>195</b>	0.8396	23456-234	0.306	0.199
113	39.99	9:4	<b>208</b>	0.8507	23456-2356	0.162	0.098
114	40.97	9:4	<b>207</b>	0.8715	23456-2346	0.041	0.025
115	42.39	8:2	<b>194</b>	0.9017	2345-2345	1.000	0.652
116	43.30	8:2	<b>205</b>	0.9211	23456-345	0.067	0.043
117	48.55	9:3	<b>206</b>	1.033	23456-2345	0.390	0.235
118	54.73	10:4	<b>209</b>	1.164	23456-23456	0.001	0.001

Concentration = 132 ng/mL

Total Nanomoles = 0.472

Average Molecular Weight = 280.1

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Sample Name: CCCS0903A Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/03/2009 11:04:51 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 09/03/2009 12:16:26  
Sample Set Name: GC16\_090309c User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_082309 Current Time: 00:48:17  
Run Time: 60 Minutes Current Date: 09/06/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-781-3

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2037	9.491	9.491
2	4 (3)	12.93	557	4.939	4.939
3	5 (4,10)	13.54	1128	2.463	2.463
4	6 (7,9)	14.41	2982	0.864	0.864
5	7 (6)	14.72	2334	1.391	1.391
6	8 (5,8)	14.91	10095	11.445	11.445
7	10 (19)	15.56	770	0.283	0.283
8	13 (12,13)	16.29	387	0.182	0.182
9	14 (15,18)	16.42	9712	3.390	3.390
10	15 (17)	16.51	4616	3.319	3.319
11	16 (24,27)	16.81	1025	0.244	0.244
12	17 (16,32)	17.06	8485	3.509	3.509
13	19 (23,34,54)	17.52	130	0.043	0.043
14	20 (29)	17.72	175	0.034	0.034
15	21 (26)	17.83	2013	0.620	0.620
16	22 (25)	17.91	1064	0.217	0.217
17	23 (31)	18.11	12384	3.168	3.168
18	24 (28,50)	18.16	14957	3.475	3.475
19	25 (20,21,33,53)	18.52	10885	3.235	3.235
20	26 (22,51)	18.75	7036	2.278	2.278
21	27 (45)	18.98	2845	0.748	0.748
22	29 (46)	19.25	1209	0.345	0.345
23	31 (52,69,73)	19.55	11800	4.331	4.331
24	32 (43,49)	19.72	9521	1.791	1.791
25	33 (38,47)	19.83	3956	0.532	0.532
26	34 (48,75)	19.90	4029	0.734	0.734
27	36 (35)	20.12	88	0.041	0.041
28	37 (104,44)	20.29	14281	3.447	3.447
29	38 (37,42,59)	20.42	7970	2.326	2.326
30	39 (41,64,71,72)	20.77	15804	2.977	2.977
31	41 (68,96)	20.93	135	0.040	0.040
32	42 (40)	21.03	3363	0.747	0.747
33	43 (57,103)	21.30	137	0.030	0.030

34	44 (58,67,100)	21.46	402	0.070	0.070
35	45 (63)	21.62	693	0.111	0.111
36	46 (74,94,61)	21.79	7844	1.043	1.043
37	47 (70)	21.92	15253	2.488	2.488
38	48 (66,76,98,80,93,95,	22.04	20812	5.069	5.069
39	49 (55,91,121)	22.33	1797	0.353	0.353
40	50 (56,60)	22.64	13223	2.164	2.164
41	51 (84,92,155)	22.88	4141	1.692	1.692
42	52 (89)	22.99	362	0.066	0.066
43	53 (90,101)	23.14	7406	1.415	1.415
44	54 (79,99,113)	23.33	3528	0.428	0.428
45	55 (119,150)	23.62	165	0.011	0.011
46	56 (78,83,112,108)	23.71	610	0.118	0.118
47	57 (97,152,86)	23.92	3120	0.425	0.425
48	58 (81,87,117,125,115	24.10	5461	0.954	0.954
49	59 (116,85,111)	24.25	2773	0.390	0.390
50	60 (120,136)	24.37	2706	0.469	0.469
51	61 (77,110,148)	24.50	8176	1.562	1.562
52	63 (82)	24.87	2138	0.299	0.299
53	64 (151)	25.17	7705	1.319	1.319
54	65 (124,135)	25.31	2040	0.209	0.209
55	66 (144)	25.37	1674	0.441	0.441
56	67 (107,109,147)	25.43	467	0.083	0.083
57	68 (123)	25.55	122	0.021	0.021
58	69 (106,118,139,149)	25.62	18132	2.793	2.793
59	71 (114,134,143)	26.02	918	0.122	0.122
60	72 (122,131,133,142)	26.22	227	0.015	0.015
61	73 (146,165,188)	26.52	1910	0.259	0.259
62	74 (105,132,161)	26.65	7750	0.934	0.934
63	75 (153)	26.81	16216	2.031	2.031
64	77 (141)	27.35	5763	1.149	1.149
65	78 (179)	27.42	7325	1.181	1.181
66	79 (137)	27.63	195	0.031	0.031
67	80 (130,176)	27.79	2460	0.180	0.180
68	82 (138,163,164)	28.02	13497	1.853	1.853
69	83 (158,160,186)	28.21	1481	0.158	0.158
70	84 (126,129)	28.40	285	0.005	0.005
71	85 (166,178)	28.75	3308	0.808	0.808
72	87 (175,159)	29.06	577	0.114	0.114
73	88 (182,187)	29.22	19557	2.724	2.724
74	89 (128,162)	29.33	833	0.069	0.069
75	90 (183)	29.53	8707	1.258	1.258
76	91 (167)	29.79	466	0.035	0.035
77	92 (185)	30.14	3328	0.328	0.328
78	93 (174,181)	30.52	16275	2.343	2.343
79	94 (177)	30.79	7477	1.218	1.218
80	95 (156,171)	31.10	3537	0.537	0.537
81	96 (157,202)	31.37	2442	0.053	0.053
82	98 (173)	31.54	204	0.021	0.021
83	99 (201)	31.93	1926	0.313	0.313
84	100 (172,204)	32.18	2617	0.436	0.436

85	101 (192,197)	32.47	514	0.085	0.085
86	102 (180)	32.66	34689	4.368	4.368
87	103 (193)	32.90	1660	0.253	0.253
88	104 (191)	33.22	403	0.059	0.059
89	105 (200,169)	33.57	2343	0.344	0.344
90	106 (170)	34.76	10844	0.903	0.903
91	107 (190)	35.04	3086	0.305	0.305
92	108 (198)	35.91	1060	0.108	0.108
93	109 (199)	36.16	15108	3.263	3.263
94	110 (196,203)	36.70	16393	3.247	3.247
95	111 (189)	37.92	369	0.035	0.035
96	112 (195)	39.47	5308	0.399	0.399
97	113 (208)	40.00	1088	0.226	0.226
98	114 (207)	40.99	615	0.063	0.063
99	115 (194)	42.41	13739	1.265	1.265
100	116 (205)	43.30	489	0.073	0.073
101	117 (206)	48.57	5163	0.504	0.504
102	118 (209)	54.71	30	0.004	0.004
103	Sum			130.349	130.349



Sample Name: CCCS0903B Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/03/2009 19:23:48 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 09/06/2009 00:37:07  
Sample Set Name: GC16\_090309c User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_082309 Current Time: 00:48:18  
Run Time: 60 Minutes Current Date: 09/06/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-781-10

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2242	9.358	9.358
2	4 (3)	12.93	692	5.502	5.502
3	5 (4,10)	13.54	1205	2.357	2.357
4	6 (7,9)	14.41	3463	0.898	0.898
5	7 (6)	14.72	2621	1.399	1.399
6	8 (5,8)	14.91	11597	11.780	11.780
7	10 (19)	15.55	736	0.242	0.242
8	13 (12,13)	16.30	452	0.190	0.190
9	14 (15,18)	16.42	10858	3.395	3.395
10	15 (17)	16.51	5184	3.339	3.339
11	16 (24,27)	16.81	1170	0.250	0.250
12	17 (16,32)	17.06	9375	3.473	3.473
13	19 (23,34,54)	17.54	118	0.035	0.035
14	20 (29)	17.70	114	0.020	0.020
15	21 (26)	17.83	2340	0.645	0.645
16	22 (25)	17.91	1265	0.231	0.231
17	23 (31)	18.11	14352	3.290	3.290
18	24 (28,50)	18.16	17379	3.618	3.618
19	25 (20,21,33,53)	18.52	12687	3.379	3.379
20	26 (22,51)	18.75	8377	2.431	2.431
21	27 (45)	18.97	3370	0.794	0.794
22	29 (46)	19.25	1293	0.331	0.331
23	31 (52,69,73)	19.55	13339	4.387	4.387
24	32 (43,49)	19.72	10778	1.817	1.817
25	33 (38,47)	19.83	4405	0.530	0.530
26	34 (48,75)	19.90	4738	0.774	0.774
27	36 (35)	20.13	148	0.063	0.063
28	37 (104,44)	20.29	16003	3.461	3.461
29	38 (37,42,59)	20.42	9153	2.393	2.393
30	39 (41,64,71,72)	20.77	17792	3.003	3.003
31	41 (68,96)	20.93	264	0.071	0.071
32	42 (40)	21.03	4058	0.807	0.807
33	43 (57,103)	21.29	122	0.024	0.024

34	44 (58,67,100)	21.46	493	0.076	0.076
35	45 (63)	21.62	857	0.123	0.123
36	46 (74,94,61)	21.79	8858	1.055	1.055
37	47 (70)	21.92	17331	2.532	2.532
38	48 (66,76,98,80,93,95,	22.04	23417	5.111	5.111
39	49 (55,91,121)	22.33	2263	0.398	0.398
40	50 (56,60)	22.64	15274	2.240	2.240
41	51 (84,92,155)	22.88	4567	1.672	1.672
42	52 (89)	22.98	333	0.054	0.054
43	53 (90,101)	23.14	8235	1.410	1.410
44	54 (79,99,113)	23.34	3798	0.413	0.413
45	55 (119,150)	23.61	172	0.011	0.011
46	56 (78,83,112,108)	23.71	646	0.112	0.112
47	57 (97,152,86)	23.92	3430	0.419	0.419
48	58 (81,87,117,125,115	24.10	6042	0.946	0.946
49	59 (116,85,111)	24.25	3147	0.396	0.396
50	60 (120,136)	24.37	3107	0.482	0.482
51	61 (77,110,148)	24.50	9361	1.602	1.602
52	62 (154)	24.75	414	0.069	0.069
53	63 (82)	24.87	2582	0.324	0.324
54	64 (151)	25.17	8647	1.326	1.326
55	65 (124,135)	25.30	2487	0.229	0.229
56	66 (144)	25.37	1860	0.439	0.439
57	67 (107,109,147)	25.43	526	0.084	0.084
58	68 (123)	25.53	149	0.023	0.023
59	69 (106,118,139,149)	25.62	20749	2.864	2.864
60	71 (114,134,143)	26.03	944	0.112	0.112
61	72 (122,131,133,142)	26.24	162	0.009	0.009
62	73 (146,165,188)	26.52	2046	0.249	0.249
63	74 (105,132,161)	26.65	8660	0.935	0.935
64	75 (153)	26.81	18438	2.070	2.070
65	77 (141)	27.35	6756	1.206	1.206
66	78 (179)	27.42	7637	1.103	1.103
67	79 (137)	27.65	205	0.029	0.029
68	80 (130,176)	27.79	2509	0.164	0.164
69	82 (138,163,164)	28.02	15190	1.868	1.868
70	83 (158,160,186)	28.20	1468	0.140	0.140
71	84 (126,129)	28.42	239	0.004	0.004
72	85 (166,178)	28.76	3685	0.807	0.807
73	87 (175,159)	29.07	717	0.127	0.127
74	88 (182,187)	29.22	22236	2.776	2.776
75	89 (128,162)	29.34	645	0.048	0.048
76	90 (183)	29.53	9607	1.243	1.243
77	91 (167)	29.79	176	0.012	0.012
78	92 (185)	30.15	3942	0.348	0.348
79	93 (174,181)	30.52	18451	2.380	2.380
80	94 (177)	30.80	8779	1.281	1.281
81	95 (156,171)	31.10	4071	0.553	0.553
82	96 (157,202)	31.37	2845	0.055	0.055
83	98 (173)	31.53	241	0.022	0.022
84	99 (201)	31.92	2038	0.297	0.297

85	100 (172,204)	32.17	2703	0.403	0.403
86	101 (192,197)	32.47	507	0.075	0.075
87	102 (180)	32.66	39571	4.465	4.465
88	103 (193)	32.90	2101	0.287	0.287
89	104 (191)	33.25	613	0.081	0.081
90	105 (200,169)	33.58	2533	0.334	0.334
91	106 (170)	34.75	12269	0.915	0.915
92	107 (190)	35.04	3372	0.299	0.299
93	108 (198)	35.92	941	0.085	0.085
94	109 (199)	36.15	16981	3.286	3.286
95	110 (196,203)	36.71	18577	3.297	3.297
96	111 (189)	37.88	469	0.040	0.040
97	112 (195)	39.48	5940	0.401	0.401
98	113 (208)	40.00	1301	0.243	0.243
99	114 (207)	40.97	977	0.089	0.089
100	115 (194)	42.40	16128	1.331	1.331
101	116 (205)	43.32	576	0.077	0.077
102	117 (206)	48.55	5819	0.509	0.509
103	118 (209)	54.72	63	0.007	0.007
104	Sum			132.758	132.758



Sample Name: CCCS0905A Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/05/2009 11:59:33 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 09/05/2009 23:38:37  
Sample Set Name: GC16\_090509A User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_082309 Current Time: 00:48:20  
Run Time: 60 Minutes Current Date: 09/06/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-783-3

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2170	9.261	9.261
2	4 (3)	12.93	563	4.565	4.565
3	5 (4,10)	13.54	1166	2.332	2.332
4	6 (7,9)	14.41	3235	0.858	0.858
5	7 (6)	14.72	2446	1.334	1.334
6	8 (5,8)	14.91	11096	11.525	11.525
7	10 (19)	15.56	741	0.249	0.249
8	13 (12,13)	16.30	415	0.179	0.179
9	14 (15,18)	16.42	10536	3.369	3.369
10	15 (17)	16.50	5097	3.357	3.357
11	16 (24,27)	16.80	1132	0.247	0.247
12	17 (16,32)	17.06	9101	3.448	3.448
13	19 (23,34,54)	17.52	81	0.025	0.025
14	20 (29)	17.70	119	0.022	0.022
15	21 (26)	17.83	2128	0.600	0.600
16	22 (25)	17.91	1079	0.201	0.201
17	23 (31)	18.11	13804	3.235	3.235
18	24 (28,50)	18.16	16680	3.551	3.551
19	25 (20,21,33,53)	18.51	11881	3.234	3.234
20	26 (22,51)	18.74	7752	2.300	2.300
21	27 (45)	18.97	3083	0.743	0.743
22	29 (46)	19.25	1188	0.311	0.311
23	31 (52,69,73)	19.55	13065	4.393	4.393
24	32 (43,49)	19.71	10472	1.805	1.805
25	33 (38,47)	19.83	4251	0.523	0.523
26	34 (48,75)	19.89	4432	0.740	0.740
27	36 (35)	20.13	100	0.043	0.043
28	37 (104,44)	20.28	15628	3.456	3.456
29	38 (37,42,59)	20.42	8680	2.321	2.321
30	39 (41,64,71,72)	20.77	17490	3.018	3.018
31	41 (68,96)	20.93	204	0.056	0.056
32	42 (40)	21.03	3865	0.787	0.787
33	43 (57,103)	21.28	146	0.029	0.029

34	44 (58,67,100)	21.45	560	0.089	0.089
35	45 (63)	21.61	831	0.122	0.122
36	46 (74,94,61)	21.79	8838	1.076	1.076
37	47 (70)	21.92	17162	2.564	2.564
38	48 (66,76,98,80,93,95,	22.03	23095	5.154	5.154
39	49 (55,91,121)	22.33	2091	0.376	0.376
40	50 (56,60)	22.64	15095	2.263	2.263
41	51 (84,92,155)	22.88	4483	1.678	1.678
42	52 (89)	22.98	325	0.054	0.054
43	53 (90,101)	23.14	8249	1.444	1.444
44	54 (79,99,113)	23.33	3833	0.426	0.426
45	55 (119,150)	23.61	214	0.014	0.014
46	56 (78,83,112,108)	23.70	691	0.122	0.122
47	57 (97,152,86)	23.92	3333	0.416	0.416
48	58 (81,87,117,125,115	24.09	5972	0.956	0.956
49	59 (116,85,111)	24.25	3110	0.400	0.400
50	60 (120,136)	24.37	3015	0.478	0.478
51	61 (77,110,148)	24.50	9295	1.626	1.626
52	63 (82)	24.87	2602	0.334	0.334
53	64 (151)	25.17	8483	1.330	1.330
54	65 (124,135)	25.30	2383	0.224	0.224
55	66 (144)	25.36	1813	0.438	0.438
56	67 (107,109,147)	25.43	512	0.083	0.083
57	68 (123)	25.54	129	0.020	0.020
58	69 (106,118,139,149)	25.62	20174	2.847	2.847
59	71 (114,134,143)	26.02	916	0.112	0.112
60	72 (122,131,133,142)	26.22	231	0.014	0.014
61	73 (146,165,188)	26.52	1922	0.239	0.239
62	74 (105,132,161)	26.65	8353	0.922	0.922
63	75 (153)	26.81	17957	2.061	2.061
64	77 (141)	27.35	6309	1.152	1.152
65	78 (179)	27.42	7592	1.122	1.122
66	79 (137)	27.68	118	0.017	0.017
67	80 (130,176)	27.79	2451	0.164	0.164
68	82 (138,163,164)	28.01	14825	1.865	1.865
69	83 (158,160,186)	28.20	1225	0.119	0.119
70	84 (126,129)	28.42	198	0.004	0.004
71	85 (166,178)	28.76	3494	0.782	0.782
72	87 (175,159)	29.07	592	0.108	0.108
73	88 (182,187)	29.21	21526	2.747	2.747
74	89 (128,162)	29.33	709	0.054	0.054
75	90 (183)	29.52	9175	1.214	1.214
76	91 (167)	29.79	140	0.010	0.010
77	92 (185)	30.14	3764	0.340	0.340
78	93 (174,181)	30.52	17831	2.352	2.352
79	94 (177)	30.80	8382	1.251	1.251
80	95 (156,171)	31.10	3996	0.555	0.555
81	96 (157,202)	31.37	2738	0.054	0.054
82	98 (173)	31.54	295	0.028	0.028
83	99 (201)	31.92	1923	0.286	0.286
84	100 (172,204)	32.17	2651	0.404	0.404

85	101 (192,197)	32.49	523	0.079	0.079
86	102 (180)	32.66	38779	4.474	4.474
87	103 (193)	32.90	2089	0.292	0.292
88	104 (191)	33.22	439	0.059	0.059
89	105 (200,169)	33.58	2324	0.313	0.313
90	106 (170)	34.75	11942	0.911	0.911
91	107 (190)	35.03	3232	0.293	0.293
92	108 (198)	35.92	1002	0.093	0.093
93	109 (199)	36.15	16599	3.284	3.284
94	110 (196,203)	36.70	17858	3.241	3.241
95	111 (189)	37.93	235	0.020	0.020
96	112 (195)	39.47	5493	0.379	0.379
97	113 (208)	40.02	895	0.170	0.170
98	114 (207)	40.96	665	0.062	0.062
99	115 (194)	42.41	15481	1.306	1.306
100	116 (205)	43.34	560	0.077	0.077
101	117 (206)	48.54	5797	0.518	0.518
102	118 (209)	54.72	21	0.002	0.002
103	Sum			130.199	130.199



Sample Name: CCCS0905B Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/05/2009 21:52:24 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 09/05/2009 23:22:04  
Sample Set Name: GC16\_090509A User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_082309 Current Time: 00:48:21  
Run Time: 60 Minutes Current Date: 09/06/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-783-10

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2169	9.076	9.076
2	4 (3)	12.93	609	4.852	4.852
3	5 (4,10)	13.54	1335	2.619	2.619
4	6 (7,9)	14.41	3377	0.878	0.878
5	7 (6)	14.72	2699	1.446	1.446
6	8 (5,8)	14.91	11368	11.580	11.580
7	10 (19)	15.55	801	0.264	0.264
8	13 (12,13)	16.29	475	0.200	0.200
9	14 (15,18)	16.41	10931	3.428	3.428
10	15 (17)	16.50	5273	3.406	3.406
11	16 (24,27)	16.80	1114	0.239	0.239
12	17 (16,32)	17.06	9394	3.491	3.491
13	19 (23,34,54)	17.57	93	0.028	0.028
14	20 (29)	17.70	164	0.029	0.029
15	21 (26)	17.82	2287	0.632	0.632
16	22 (25)	17.91	1280	0.234	0.234
17	23 (31)	18.11	14409	3.313	3.313
18	24 (28,50)	18.16	17367	3.626	3.626
19	25 (20,21,33,53)	18.51	12506	3.340	3.340
20	26 (22,51)	18.74	8189	2.383	2.383
21	27 (45)	18.97	3186	0.753	0.753
22	29 (46)	19.25	1286	0.330	0.330
23	31 (52,69,73)	19.55	13361	4.406	4.406
24	32 (43,49)	19.72	10842	1.832	1.832
25	33 (38,47)	19.83	4475	0.541	0.541
26	34 (48,75)	19.89	4658	0.763	0.763
27	36 (35)	20.10	85	0.036	0.036
28	37 (104,44)	20.29	16156	3.504	3.504
29	38 (37,42,59)	20.42	8918	2.338	2.338
30	39 (41,64,71,72)	20.76	17842	3.020	3.020
31	41 (68,96)	20.93	187	0.050	0.050
32	42 (40)	21.03	3963	0.791	0.791
33	43 (57,103)	21.29	185	0.036	0.036

34	44 (58,67,100)	21.45	568	0.088	0.088
35	45 (63)	21.61	881	0.126	0.126
36	46 (74,94,61)	21.78	8938	1.067	1.067
37	47 (70)	21.92	17611	2.581	2.581
38	48 (66,76,98,80,93,95,	22.03	23717	5.191	5.191
39	49 (55,91,121)	22.33	2203	0.389	0.389
40	50 (56,60)	22.64	15556	2.288	2.288
41	51 (84,92,155)	22.87	4715	1.731	1.731
42	52 (89)	22.98	388	0.063	0.063
43	53 (90,101)	23.14	8532	1.464	1.464
44	54 (79,99,113)	23.33	4038	0.441	0.441
45	55 (119,150)	23.61	201	0.013	0.013
46	56 (78,83,112,108)	23.70	660	0.114	0.114
47	57 (97,152,86)	23.92	3504	0.429	0.429
48	58 (81,87,117,125,115	24.09	6211	0.975	0.975
49	59 (116,85,111)	24.25	3241	0.409	0.409
50	60 (120,136)	24.37	3122	0.486	0.486
51	61 (77,110,148)	24.50	9562	1.641	1.641
52	63 (82)	24.87	2523	0.318	0.318
53	64 (151)	25.17	8605	1.323	1.323
54	65 (124,135)	25.30	2486	0.229	0.229
55	66 (144)	25.36	1772	0.419	0.419
56	67 (107,109,147)	25.43	553	0.088	0.088
57	68 (123)	25.53	176	0.027	0.027
58	69 (106,118,139,149)	25.62	20804	2.879	2.879
59	71 (114,134,143)	26.03	969	0.116	0.116
60	72 (122,131,133,142)	26.23	235	0.014	0.014
61	73 (146,165,188)	26.52	2049	0.250	0.250
62	74 (105,132,161)	26.65	8729	0.945	0.945
63	75 (153)	26.81	18565	2.090	2.090
64	77 (141)	27.35	6564	1.175	1.175
65	78 (179)	27.42	7879	1.142	1.142
66	79 (137)	27.63	133	0.019	0.019
67	80 (130,176)	27.79	2435	0.160	0.160
68	82 (138,163,164)	28.02	15157	1.870	1.870
69	83 (158,160,186)	28.20	1302	0.124	0.124
70	84 (126,129)	28.40	162	0.003	0.003
71	85 (166,178)	28.75	3783	0.830	0.830
72	87 (175,159)	29.06	743	0.132	0.132
73	88 (182,187)	29.21	22173	2.775	2.775
74	89 (128,162)	29.34	752	0.056	0.056
75	90 (183)	29.53	9485	1.231	1.231
76	91 (167)	29.79	278	0.019	0.019
77	92 (185)	30.14	3927	0.348	0.348
78	93 (174,181)	30.51	18435	2.385	2.385
79	94 (177)	30.79	8401	1.229	1.229
80	95 (156,171)	31.10	4016	0.548	0.548
81	96 (157,202)	31.36	2831	0.055	0.055
82	98 (173)	31.53	254	0.023	0.023
83	99 (201)	31.92	2096	0.306	0.306
84	100 (172,204)	32.17	2688	0.402	0.402

85	101 (192,197)	32.47	470	0.070	0.070
86	102 (180)	32.66	39630	4.484	4.484
87	103 (193)	32.91	1983	0.272	0.272
88	104 (191)	33.22	659	0.087	0.087
89	105 (200,169)	33.57	2407	0.318	0.318
90	106 (170)	34.75	12082	0.904	0.904
91	107 (190)	35.03	3335	0.297	0.297
92	108 (198)	35.93	826	0.075	0.075
93	109 (199)	36.14	16834	3.266	3.266
94	110 (196,203)	36.70	18657	3.321	3.321
95	111 (189)	37.91	398	0.034	0.034
96	112 (195)	39.47	5981	0.404	0.404
97	113 (208)	39.99	1147	0.214	0.214
98	114 (207)	40.97	583	0.054	0.054
99	115 (194)	42.39	15970	1.322	1.322
100	116 (205)	43.30	659	0.088	0.088
101	117 (206)	48.55	5882	0.516	0.516
102	118 (209)	54.73	12	0.001	0.001
103	Sum			132.216	132.216

# QC Sample Raw Data

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09090045
ELAP ID No:	11078	LRF ID:	CEBLK-30
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-30(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM15338B
% Moisture:	100	Lab File ID:	GC16-781-4
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	09/03/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	09/03/2009 12:39
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 161875

Percent Recovery (50 - 150 %): 96.7

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

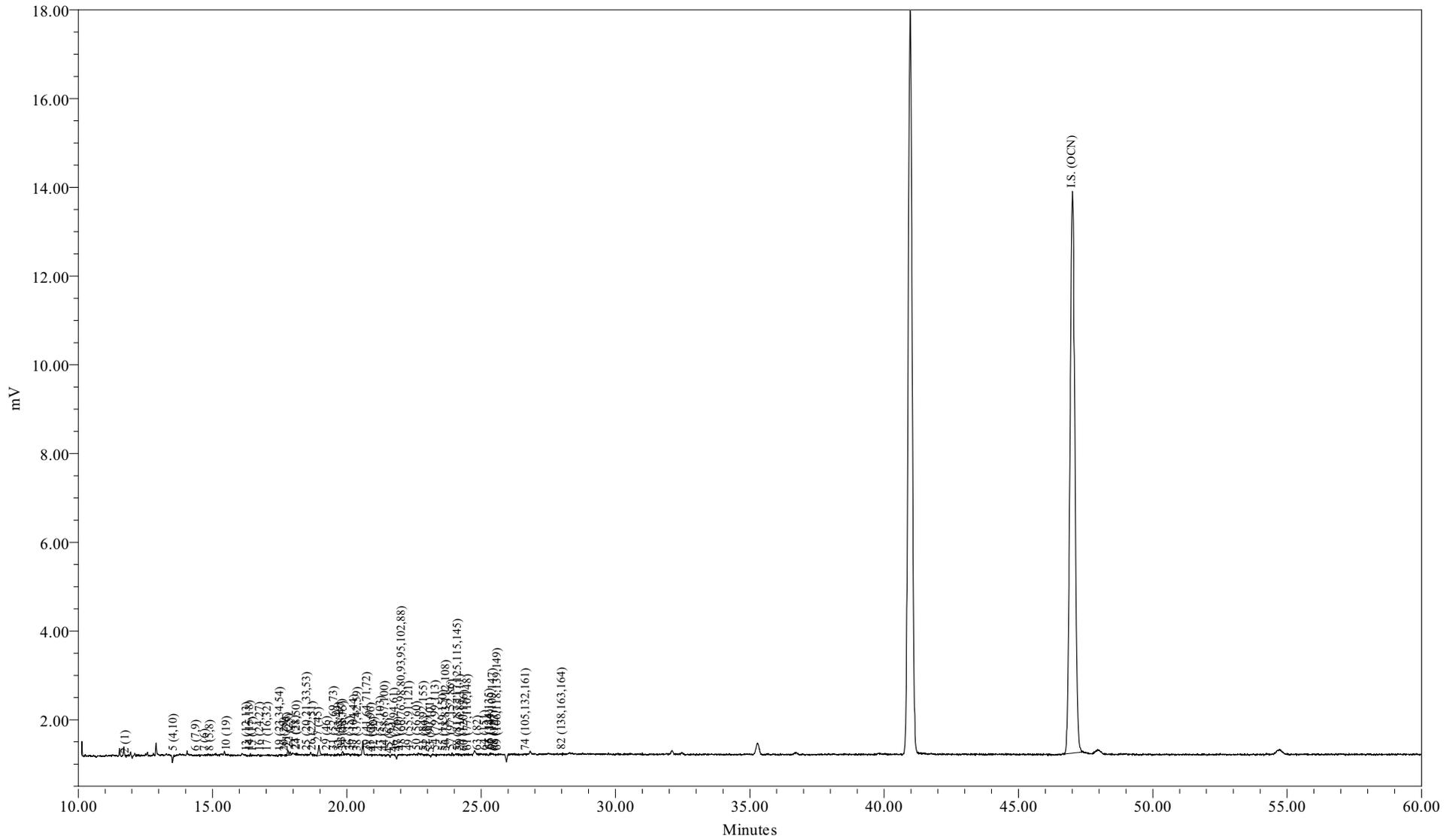
Visual Aroclor ID: No Aroclor Pattern Detected



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM15338B  
Sample ID: METHOD BLANK  
Date Acquired: 09/03/2009 12:39:55 EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-781-4

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/03/2009 12:39:55  
 Lab Sample ID: AM15338B  
 LRF ID: CEBLK-30  
 Lab File ID: GC16-781-4

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <9.10 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	17.88	21.53
Tri	30.24	31.95
Tetra	39.21	36.34
Penta	8.35	6.94
Hexa	4.31	3.24
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001		0	
A1242	23+24/31+28		0	
A1254SED	61/100	0.0711	100	
A1254BIO	69+75+82/149+153+138			
A1260	102/180		0	
A1268	115/194		0	

Ortho Cl / biphenyl Residue = 2.03

Meta + Para Cl / biphenyl Residue = 1.35

Total Cl / biphenyl Residue = 3.38

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/03/2009 12:39:55  
 Lab Sample ID: AM15338B  
 LRF ID: CEBLK-30  
 Lab File ID: GC16-781-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.78	188.7	6			0.529	2.19	U
3	12.83	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.57	223.1	65	0.362	1.62	0.134	0.621	J
6	14.40	223.1	10			0.0721	0.219	U
7	14.73	223.1	4			0.158	0.347	U
8	14.93	223.1	10			0.542	2.56	U
9	15.48	223.1				0.294	25.0	U
10	15.54	257.5	9			0.0604	0.102	U
11	16.03	257.5				0.198	25.0	U
12	16.09	223.1				0.306	25.0	U
13	16.29	223.1	31	0.0756	0.339	0.0559	0.0975	J
14	16.41	249.0	90	0.146	0.586	0.128	0.676	J
15	16.51	257.5	9			0.143	0.676	U
16	16.79	257.5	49	0.0505	0.196	0.0374	0.0475	
17	17.07	257.5	7			0.166	0.713	U
19	17.54	267.9	35			0.128	25.0	U
20	17.70	257.5	39	0.0330	0.128	0.0108	0.0194	
21	17.81	257.5	320	0.435	1.69	0.0606	0.132	
22	17.88	257.5	208	0.174	0.676	0.0426	0.0585	
23	18.11	257.5	107			0.487	0.753	U
24	18.15	257.5	80			0.211	0.964	U
25	18.53	259.5	38			0.105	0.726	U
26	18.74	258.7	87			0.120	0.530	U
27	18.96	292.0	914	1.02	3.49	0.0367	0.163	
28	19.12	257.5				0.375	25.0	U
29	19.28	292.0	45			0.127	0.127	U
30	19.39	257.5				0.120	25.0	U
31	19.54	292.0	32			0.204	0.872	U
32	19.72	292.0	10			0.0978	0.420	U
33	19.85	292.0	247			0.0656	0.183	U
34	19.89	292.0	54			0.0579	0.183	U
35	20.04	292.0				0.205	25.0	U
36	20.13	257.5	32			0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0	20			0.160	0.786	U
38	20.42	272.4	17			0.115	0.475	U
39	20.77	292.0	12			0.121	0.749	U
41	20.93	326.4	10			0.115	25.0	U
42	21.03	292.0	10			0.0968	0.172	U
43	21.28	298.9	16			0.152	25.0	U
44	21.44	298.9	27	0.0245	0.0819	0.0225	0.0402	J
45	21.61	292.0	1			0.0299	0.0384	U
46	21.80	292.0	10			0.0821	0.347	U
47	21.93	292.0	16			0.164	0.621	U
48	22.06	293.5	29			0.243	1.32	U
49	22.34	324.7	13			0.0376	0.0932	U
50	22.64	292.0	10			0.359	0.640	U
51	22.89	326.4	18			0.0888	0.329	U
52	22.99	326.4	21			0.0384	0.0384	U
53	23.13	326.4	21			0.0691	0.329	U
54	23.33	326.4	27			0.101	0.135	U
55	23.61	326.4	1			0.00644	0.0102	U
56	23.71	326.4	4			0.0647	0.0647	U
57	23.91	326.4	134	0.0933	0.286	0.0435	0.102	J
58	24.15	326.4	71			0.0841	0.212	U
59	24.24	326.4	56	0.0521	0.160	0.0484	0.128	J
60	24.39	360.9	5			0.0772	0.137	U
61	24.52	326.4	42	0.0711	0.218	0.0668	0.389	J
62	24.79	360.9				0.113	25.0	U
63	24.90	326.4	42			0.0201	0.0804	U
64	25.15	360.9	31			0.0518	0.311	U
65	25.33	350.5	62			0.0149	0.0530	U
66	25.36	360.9	99	0.114	0.317	0.0541	0.110	
67	25.45	336.8	32			0.0348	0.0475	U
68	25.53	326.4	1			0.125	25.0	U
69	25.62	337.5	11			0.0938	0.731	U
70	25.74	360.9				0.0829	25.0	U
71	26.04	347.8				0.0348	0.0369	U
72	26.23	336.8				0.00638	0.0106	U
73	26.52	360.9				0.0320	0.0713	U
74	26.68	347.8	20			0.0721	0.248	U
75	26.82	360.9				0.109	0.538	U
76	26.93	360.9				0.107	25.0	U
77	27.35	360.9				0.0637	0.311	U
78	27.42	395.3				0.0470	0.267	U
79	27.65	360.9				0.0501	0.0501	U
80	27.80	360.9				0.0151	0.0475	U
82	28.03	360.9	28			0.108	0.493	U
83	28.21	360.9				0.0450	0.0457	U
84	28.42	360.9				0.00310	0.00473	U
85	28.77	395.3				0.0677	0.201	U
87	29.08	395.3				0.0156	0.0731	U
88	29.22	395.3				0.102	0.658	U
89	29.35	360.9				0.0199	0.0366	U
90	29.53	395.3				0.0679	0.311	U
91	29.83	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.0225	0.0859	U
93	30.53	394.3				0.102	0.585	U
94	30.81	394.3				0.0936	0.311	U
95	31.11	382.2				0.0871	0.144	U
96	31.38	429.8				0.00942	0.0121	U
98	31.55	395.3				0.0133	0.0139	U
99	31.92	429.8				0.0863	0.0863	U
100	32.18	395.3				0.127	0.127	U
101	32.48	429.8				0.217	0.217	U
102	32.67	395.3				0.150	1.11	U
103	32.92	395.3				0.0640	0.0768	U
104	33.23	395.3				0.0374	0.0438	U
105	33.58	429.8				0.0460	0.0786	U
106	34.76	395.3				0.0538	0.234	U
107	35.04	395.3				0.0213	0.0768	U
108	35.92	429.8				0.0324	0.0438	U
109	36.16	429.8				0.116	0.768	U
110	36.71	429.8				0.184	0.786	U
111	37.90	395.3				0.0231	0.0231	U
112	39.49	429.8				0.0368	0.101	U
113	40.01	464.2				0.0438	0.0903	U
114	40.97	464.2				0.0154	0.0340	U
115	42.42	429.8				0.0969	0.329	U
116	43.32	429.8				0.0838	0.0838	U
117	48.57	464.2				0.0384	0.124	U
118	54.73	498.6				0.0126	0.0126	U

Total Concentration = <9.10 ng/L 9.10 32.2 U

Total Nanomoles = 0.010

Average Molecular Weight = 270.8

Number of Calibrated Peaks Found = 59

Internal Standard Retention Time = 47.01 minutes

Internal Standard Peak Area = 161875.3

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/03/2009 12:39:55  
 Lab Sample ID: AM15338B  
 LRF ID: CEBLK-30  
 Lab File ID: GC16-781-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	2		-	-
3	12.83	1:0	002	3		-	-
4	12.93	1:0	003	4		-	-
5	13.57	2:2	004 010	0.2887	2-2; 26	13.668	16.587
6	14.40	2:1	007 009		24; 25	-	-
7	14.73	2:1	006		2-3	-	-
8	14.93	2:1	005 008		23; 2-4	-	-
9	15.48	2:0	014		35	-	-
10	15.54	3:3	019		26-2	-	-
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013	0.3465	34; 3-4	2.853	3.462
14	16.41	2:0 3:2	015 018	0.3491	4-4; 25-2	5.501	5.982
15	16.51	3:2	017		24-2	-	-
16	16.79	3:2	024 027	0.3572	236; 26-3	1.906	2.004
17	17.07	3:2	016 032		23-2; 26-4	-	-
19	17.54	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.70	3:1	029	0.3765	245	1.244	1.308
21	17.81	3:1	026	0.3789	25-3	16.394	17.238
22	17.88	3:1	025	0.3803	24-3	6.562	6.900
23	18.11	3:1	031		25-4	-	-
24	18.15	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.53	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.74	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.96	4:3	045	0.4033	236-2	38.471	35.673
28	19.12	3:0	036		35-3	-	-
29	19.28	4:3	046		23-26	-	-
30	19.39	3:0	039		35-4	-	-
31	19.54	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.72	4:2	043 049		235-2; 24-25	-	-
33	19.85	4:2	038 047		345; 24-24	-	-
34	19.89	4:2	048 075		245-2; 246-4	-	-
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.42	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.77	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096		24-35; 236-26	-	-
42	21.03	4:2	040		23-23	-	-
43	21.28	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.44	4:1 5:3	058 067 100	0.4561	23-35; 245-3; 246-24	0.923	0.836
45	21.61	4:1	063		235-4	-	-
46	21.80	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.93	4:1	070		25-34	-	-
48	22.06	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.34	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.64	4:1	056 060		23-34; 234-4	-	-
51	22.89	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.99	5:3	089		234-26	-	-
53	23.13	5:2	090 101		235-24; 245-25	-	-
54	23.33	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.61	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.71	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.91	5:2 6:4	097 152 086	0.5086	245-23; 2356-26; 2345-2	3.519	2.919
58	24.15	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.24	5:2	116 085 111	0.5156	23456; 234-24; 235-35	1.964	1.629
60	24.39	6:4	120 136		245-35; 236-236	-	-
61	24.52	5:2	077 110 148	0.5216	34-34; 236-34; 235-246	2.681	2.224
62	24.79	6:3	154		245-246	-	-
63	24.90	5:2	082		234-23	-	-
64	25.15	6:3	151		2356-25	-	-
65	25.33	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.36	6:3	144	0.5395	2346-25	4.314	3.237
67	25.45	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.53	5:1	123		345-24	-	-
69	25.62	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.68	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.82	6:2	153		245-245	-	-
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.80	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.03	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	126 129		345-34; 2345-23	-	-
85	28.77	7:3	166 178		23456-4; 2356-235	-	-
87	29.08	7:3	175 159		2346-235; 2345-35	-	-
88	29.22	7:3	182 187		2345-246; 2356-245	-	-
89	29.35	6:2	128 162		234-234; 235-345	-	-
90	29.53	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.15	7:3	185		23456-25	-	-
93	30.53	7:3	174 181		2345-236; 23456-24	-	-
94	30.81	7:3	177		2356-234	-	-
95	31.11	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.38	8:4	157 202		234-345; 2356-2356	-	-
98	31.55	7:3	173		23456-23	-	-
99	31.92	8:4	201		2346-2356	-	-
100	32.18	7:2	172 204		2345-235; 23456-246	-	-
101	32.48	8:4	192 197		23456-35; 2346-2346	-	-
102	32.67	7:2	180		2345-245	-	-
103	32.92	7:2	193		2356-345	-	-
104	33.23	7:2	191		2346-345	-	-
105	33.58	8:4	200 169		23456-236; 345-345	-	-
106	34.76	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = <9.10 ng/L

Total Nanomoles = 0.010

Average Molecular Weight = 270.8

Number of Calibrated Peaks Found = 59

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09090045
ELAP ID No:	11078	LRF ID:	LCS-30
Matrix:	ORGANIC FREE WATER	Client ID:	LCS-30(LAB CONTROL SPIKE)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM15338L
% Moisture:	100	Lab File ID:	GC16-781-5
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	09/03/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	09/03/2009 13:47
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 151064

Percent Recovery (50 - 150 %): 90.2

SAMPLE TOTAL PCB CONCENTRATION: 231 ng/L

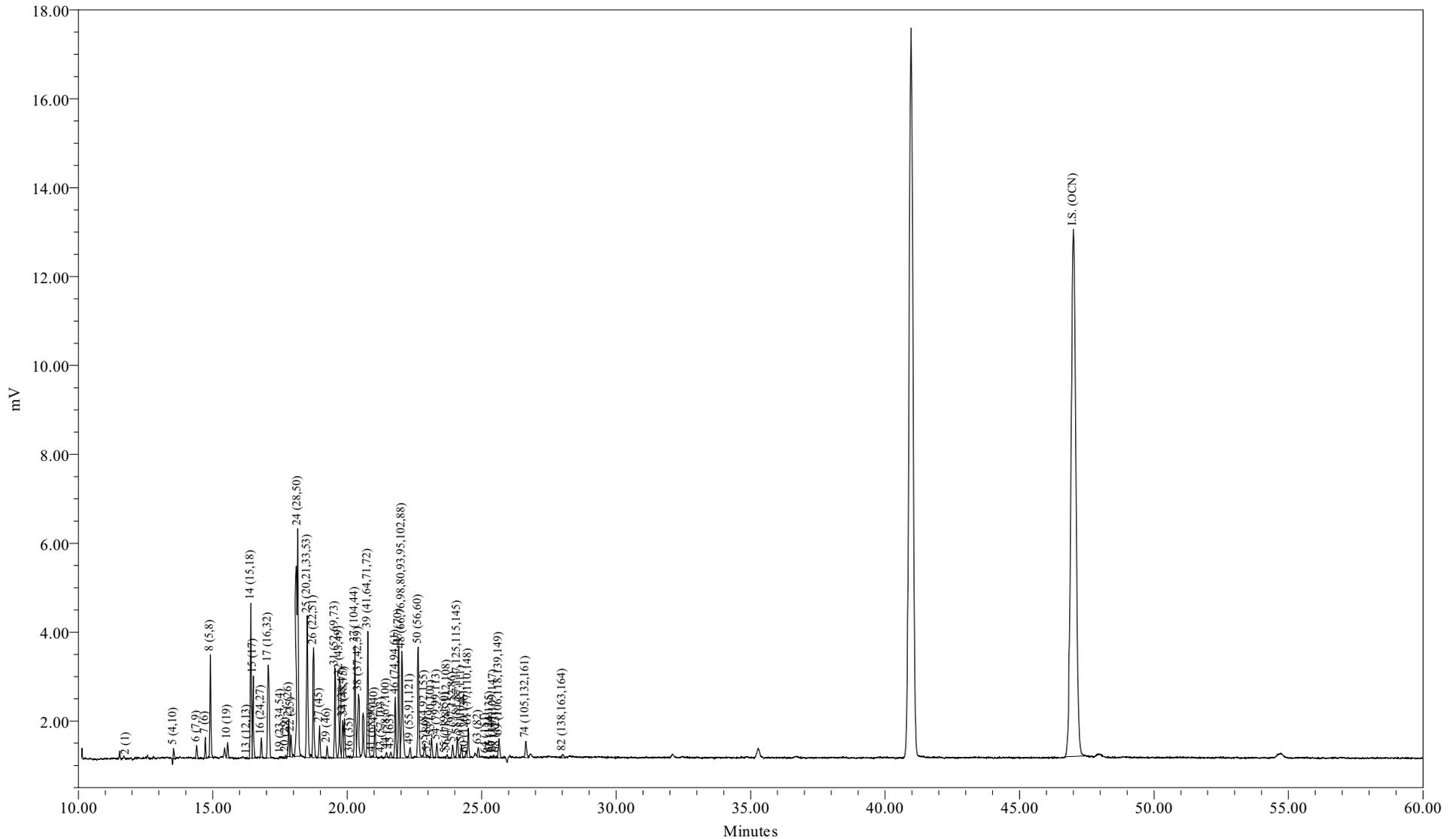
Visual Aroclor ID: PCB Added to Sample



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM15338L  
Sample ID: LAB CONTROL SPIKE  
Date Acquired: 09/03/2009 13:47:09 EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-781-5

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/03/2009 13:47:09  
 Lab Sample ID: AM15338L  
 LRF ID: LCS-30  
 Lab File ID: GC16-781-5

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 231 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	18.58	21.65
Tri	46.62	47.48
Tetra	29.42	26.56
Penta	4.85	3.90
Hexa	0.53	0.40
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001	0.4128	1.40	1.44
A1242	23+24/31+28	27.0758	92.1	94.5
A1254SED	61/100	1.9177	6.52	
A1254BIO	69+75+82/149+153+138	1.1663		4.07
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.45

Meta + Para Cl / biphenyl Residue = 1.69

Total Cl / biphenyl Residue = 3.14

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/03/2009 13:47:09  
 Lab Sample ID: AM15338L  
 LRF ID: LCS-30  
 Lab File ID: GC16-781-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.78	188.7	34			0.529	2.19	U
3	12.83	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.54	223.1	547	5.40	24.2	0.134	0.621	B
6	14.40	223.1	879	1.19	5.31	0.0721	0.219	
7	14.72	223.1	1047	2.75	12.3	0.158	0.347	
8	14.91	223.1	5819	29.9	134	0.542	2.56	
9	15.48	223.1				0.294	25.0	U
10	15.55	257.5	948	1.58	6.13	0.0604	0.102	
11	16.03	257.5				0.198	25.0	U
12	16.09	223.1				0.306	25.0	U
13	16.28	223.1	65	0.152	0.681	0.0559	0.0975	B
14	16.42	249.0	9292	14.7	59.0	0.128	0.676	B
15	16.50	257.5	5061	16.5	64.0	0.143	0.676	
16	16.81	257.5	1146	1.24	4.80	0.0374	0.0475	B
17	17.06	257.5	9098	17.0	66.1	0.166	0.713	
19	17.52	267.9	49			0.128	25.0	U
20	17.71	257.5	139	0.124	0.481	0.0108	0.0194	B
21	17.83	257.5	2355	3.28	12.7	0.0606	0.132	B
22	17.91	257.5	1458	1.35	5.23	0.0426	0.0585	B
23	18.11	257.5				0.487	0.753	U
24	18.16	257.5	25696	27.1	105	0.211	0.964	
25	18.51	259.5	10897	14.6	56.4	0.105	0.726	
26	18.75	258.7	7203	10.6	40.8	0.120	0.530	
27	18.97	292.0	2086	2.48	8.51	0.0367	0.163	B
28	19.12	257.5				0.375	25.0	U
29	19.25	292.0	772	0.993	3.40	0.127	0.127	
30	19.39	257.5				0.120	25.0	U
31	19.55	292.0	5657	9.40	32.2	0.204	0.872	
32	19.72	292.0	5424	4.62	15.8	0.0978	0.420	
33	19.83	292.0	2456	1.46	4.99	0.0656	0.183	
34	19.89	292.0	2648	2.17	7.43	0.0579	0.183	
35	20.04	292.0				0.205	25.0	U
36	20.10	257.5	106	0.227	0.881	0.144	25.0	J

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0	7504	8.16	27.9	0.160	0.786	
38	20.42	272.4	5846	7.72	28.3	0.115	0.475	
39	20.77	292.0	8964	7.61	26.1	0.121	0.749	
41	20.93	326.4	82			0.115	25.0	U
42	21.03	292.0	2085	2.11	7.24	0.0968	0.172	
43	21.28	298.9	69			0.152	25.0	U
44	21.46	298.9	353	0.278	0.931	0.0225	0.0402	B
45	21.62	292.0	386	0.277	0.950	0.0299	0.0384	
46	21.79	292.0	4145	2.50	8.56	0.0821	0.347	
47	21.92	292.0	7705	5.66	19.4	0.164	0.621	
48	22.04	293.5	9519	10.4	35.4	0.243	1.32	
49	22.34	324.7	817	0.735	2.26	0.0376	0.0932	
50	22.64	292.0	8060	5.94	20.3	0.359	0.640	
51	22.88	326.4	1086	2.03	6.21	0.0888	0.329	
52	22.99	326.4	133	0.110	0.337	0.0384	0.0384	
53	23.14	326.4	1379	1.22	3.75	0.0691	0.329	
54	23.34	326.4	939	0.525	1.61	0.101	0.135	
55	23.64	326.4	59	0.0183	0.0562	0.00644	0.0102	
56	23.71	326.4	247	0.220	0.673	0.0647	0.0647	
57	23.92	326.4	974	0.613	1.88	0.0435	0.102	B
58	24.10	326.4	1574	1.24	3.80	0.0841	0.212	
59	24.25	326.4	875	0.571	1.75	0.0484	0.128	B
60	24.38	360.9	81			0.0772	0.137	U
61	24.50	326.4	2184	1.92	5.88	0.0668	0.389	B
62	24.79	360.9				0.113	25.0	U
63	24.88	326.4	699	0.430	1.32	0.0201	0.0804	
64	25.16	360.9	122	0.0617	0.171	0.0518	0.311	J
65	25.31	350.5	80	0.0254	0.0726	0.0149	0.0530	J
66	25.36	360.9	115	0.141	0.390	0.0541	0.110	B
67	25.44	336.8	153	0.127	0.377	0.0348	0.0475	
68	25.55	326.4	92			0.125	25.0	U
69	25.64	337.5	1561	1.03	3.04	0.0938	0.731	
70	25.74	360.9				0.0829	25.0	U
71	26.04	347.8				0.0348	0.0369	U
72	26.23	336.8				0.00638	0.0106	U
73	26.52	360.9				0.0320	0.0713	U
74	26.64	347.8	1491	0.806	2.32	0.0721	0.248	
75	26.82	360.9				0.109	0.538	U
76	26.93	360.9				0.107	25.0	U
77	27.35	360.9				0.0637	0.311	U
78	27.42	395.3				0.0470	0.267	U
79	27.65	360.9				0.0501	0.0501	U
80	27.80	360.9				0.0151	0.0475	U
82	28.01	360.9	357	0.139	0.384	0.108	0.493	J
83	28.21	360.9				0.0450	0.0457	U
84	28.42	360.9				0.00310	0.00473	U
85	28.77	395.3				0.0677	0.201	U
87	29.08	395.3				0.0156	0.0731	U
88	29.22	395.3				0.102	0.658	U
89	29.35	360.9				0.0199	0.0366	U
90	29.53	395.3				0.0679	0.311	U
91	29.83	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.0225	0.0859	U
93	30.53	394.3				0.102	0.585	U
94	30.81	394.3				0.0936	0.311	U
95	31.11	382.2				0.0871	0.144	U
96	31.38	429.8				0.00942	0.0121	U
98	31.55	395.3				0.0133	0.0139	U
99	31.92	429.8				0.0863	0.0863	U
100	32.18	395.3				0.127	0.127	U
101	32.48	429.8				0.217	0.217	U
102	32.67	395.3				0.150	1.11	U
103	32.92	395.3				0.0640	0.0768	U
104	33.23	395.3				0.0374	0.0438	U
105	33.58	429.8				0.0460	0.0786	U
106	34.76	395.3				0.0538	0.234	U
107	35.04	395.3				0.0213	0.0768	U
108	35.92	429.8				0.0324	0.0438	U
109	36.16	429.8				0.116	0.768	U
110	36.71	429.8				0.184	0.786	U
111	37.90	395.3				0.0231	0.0231	U
112	39.49	429.8				0.0368	0.101	U
113	40.01	464.2				0.0438	0.0903	U
114	40.97	464.2				0.0154	0.0340	U
115	42.42	429.8				0.0969	0.329	U
116	43.32	429.8				0.0838	0.0838	U
117	48.57	464.2				0.0384	0.124	U
118	54.73	498.6				0.0126	0.0126	U

Total Concentration = 231 ng/L

9.10

32.2

Total Nanomoles = 0.882

Average Molecular Weight = 262.3

Number of Calibrated Peaks Found = 58

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 151064.1

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090903-CNEA-01  
 Date Acquired: 09/03/2009 13:47:09  
 Lab Sample ID: AM15338L  
 LRF ID: LCS-30  
 Lab File ID: GC16-781-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	2		-	-
3	12.83	1:0	002	3		-	-
4	12.93	1:0	003	4		-	-
5	13.54	2:2	004 010	0.2881	2-2; 26	2.336	2.747
6	14.40	2:1	007 009	0.3064	24; 25	0.512	0.602
7	14.72	2:1	006	0.3132	2-3	1.188	1.397
8	14.91	2:1	005 008	0.3172	23; 2-4	12.904	15.173
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	0.683	0.695
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.28	2:0	012 013	0.3464	34; 3-4	0.066	0.077
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	6.346	6.686
15	16.50	3:2	017	0.3511	24-2	7.121	7.254
16	16.81	3:2	024 027	0.3577	236; 26-3	0.535	0.545
17	17.06	3:2	016 032	0.3630	23-2; 26-4	7.363	7.501
19	17.52	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.71	3:1	029	0.3768	245	0.054	0.055
21	17.83	3:1	026	0.3794	25-3	1.418	1.445
22	17.91	3:1	025	0.3811	24-3	0.582	0.593
23	18.11	3:1	031		25-4	-	-
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	11.705	11.924
25	18.51	3:1 4:3	020 021 033 053	0.3938	23-3; 234; 34-2; 25-26	6.333	6.401
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	4.564	4.628
27	18.97	4:3	045	0.4036	236-2	1.074	0.965
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4096	23-26	0.429	0.386
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	4.062	3.649
32	19.72	4:2	043 049	0.4196	235-2; 24-25	1.997	1.794
33	19.83	4:2	038 047	0.4219	345; 24-24	0.630	0.566
34	19.89	4:2	048 075	0.4232	245-2; 246-4	0.938	0.843
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.10	3:0	035	0.4277	34-3	0.098	0.100
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	3.526	3.168
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	3.337	3.214
39	20.77	4:2	041 064 071 072	0.4419	234-2; 236-4; 26-34; 25-35	3.288	2.954

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096		24-35; 236-26	-	-
42	21.03	4:2	040	0.4474	23-23	0.913	0.821
43	21.28	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.46	4:1 5:3	058 067 100	0.4566	23-35; 245-3; 246-24	0.120	0.106
45	21.62	4:1	063	0.4600	235-4	0.120	0.108
46	21.79	4:1 5:3	074 094 061	0.4636	245-4; 235-26; 2345	1.081	0.971
47	21.92	4:1	070	0.4664	25-34	2.447	2.199
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.495	4.017
49	22.34	4:1 5:3	055 091 121	0.4753	234-3; 236-24; 246-35	0.318	0.257
50	22.64	4:1	056 060	0.4817	23-34; 234-4	2.568	2.307
51	22.88	5:3 6:4	084 092 155	0.4868	236-23; 235-25; 246-246	0.876	0.704
52	22.99	5:3	089	0.4891	234-26	0.048	0.038
53	23.14	5:2	090 101	0.4923	235-24; 245-25	0.528	0.425
54	23.34	5:2	079 099 113	0.4966	34-35; 245-24; 236-35	0.227	0.182
55	23.64	5:2 6:4	119 150	0.5030	246-34; 236-246	0.008	0.006
56	23.71	5:2	078 083 112 108	0.5045	345-3; 235-23; 2356-3; 2346-3	0.095	0.076
57	23.92	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	0.265	0.213
58	24.10	5:2	081 087 117 125 115 145	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.536	0.431
59	24.25	5:2	116 085 111	0.5160	23456; 234-24; 235-35	0.247	0.198
60	24.38	6:4	120 136		245-35; 236-236	-	-
61	24.50	5:2	077 110 148	0.5213	34-34; 236-34; 235-246	0.829	0.666
62	24.79	6:3	154		245-246	-	-
63	24.88	5:2	082	0.5294	234-23	0.186	0.149
64	25.16	6:3	151	0.5353	2356-25	0.027	0.019
65	25.31	5:1 6:3	124 135	0.5385	345-25; 235-236	0.011	0.008
66	25.36	6:3	144	0.5396	2346-25	0.061	0.044
67	25.44	5:1 6:3	107 109 147	0.5413	234-35; 235-34; 2356-24	0.055	0.043
68	25.55	5:1	123		345-24	-	-
69	25.64	5:1 6:3	106 118 139 149	0.5455	2345-3; 245-34; 2346-24; 236-245	0.444	0.345
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.64	5:1 6:3	105 132 161	0.5668	234-34; 234-236; 2346-35	0.348	0.263
75	26.82	6:2	153		245-245	-	-
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.80	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.01	6:2	138 163 164	0.5960	234-245; 2356-34; 236-345	0.060	0.044
83	28.21	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	126 129		345-34; 2345-23	-	-
85	28.77	7:3	166 178		23456-4; 2356-235	-	-
87	29.08	7:3	175 159		2346-235; 2345-35	-	-
88	29.22	7:3	182 187		2345-246; 2356-245	-	-
89	29.35	6:2	128 162		234-234; 235-345	-	-
90	29.53	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.15	7:3	185		23456-25	-	-
93	30.53	7:3	174 181		2345-236; 23456-24	-	-
94	30.81	7:3	177		2356-234	-	-
95	31.11	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.38	8:4	157 202		234-345; 2356-2356	-	-
98	31.55	7:3	173		23456-23	-	-
99	31.92	8:4	201		2346-2356	-	-
100	32.18	7:2	172 204		2345-235; 23456-246	-	-
101	32.48	8:4	192 197		23456-35; 2346-2346	-	-
102	32.67	7:2	180		2345-245	-	-
103	32.92	7:2	193		2356-345	-	-
104	33.23	7:2	191		2346-345	-	-
105	33.58	8:4	200 169		23456-236; 345-345	-	-
106	34.76	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 231 ng/L

Total Nanomoles = 0.882

Average Molecular Weight = 262.3

Number of Calibrated Peaks Found = 58

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

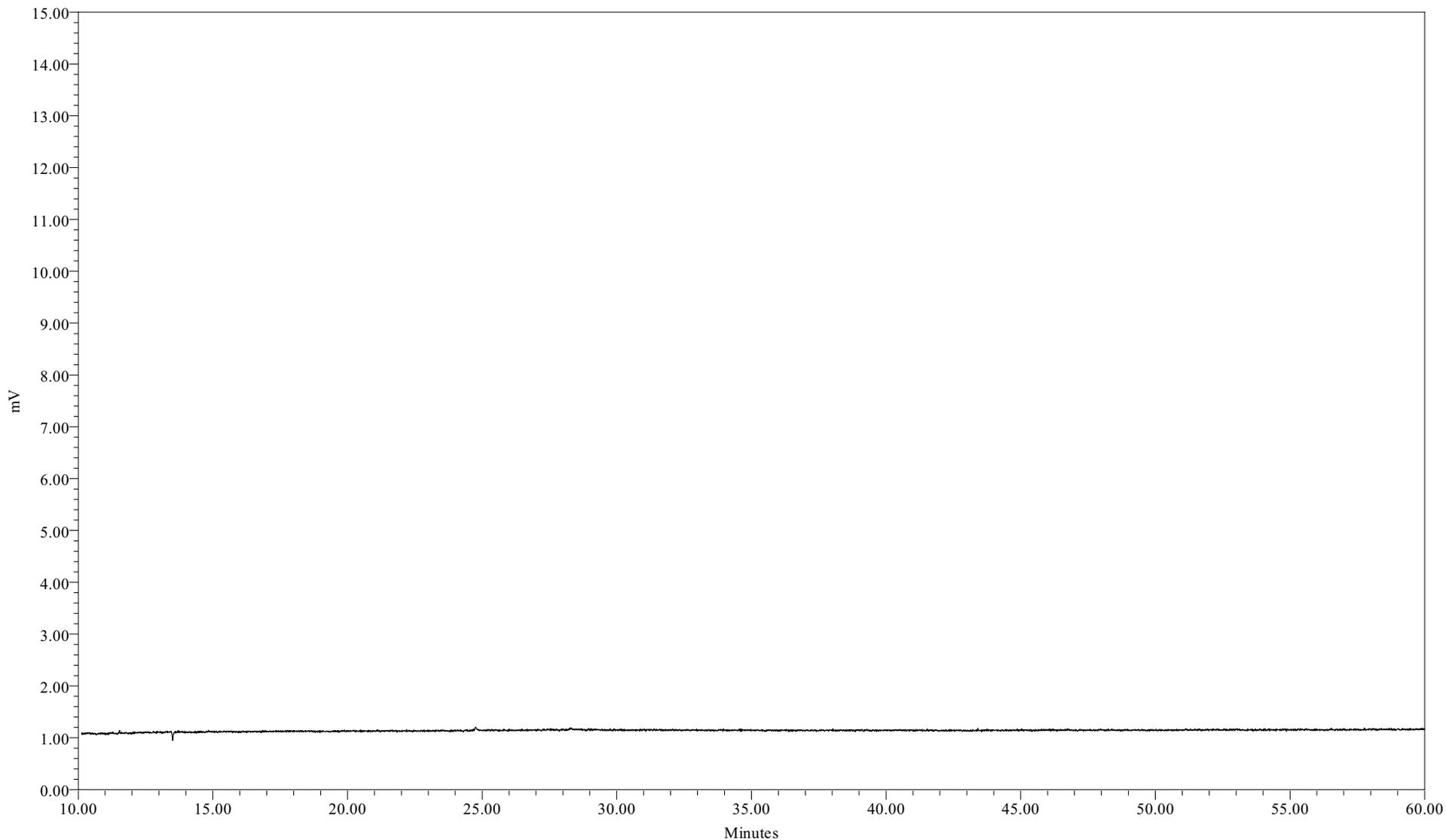
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66,76,98,80,93,95,102,88</b> )	80,88,93
56 ( <b>78,83</b> ,112,108)	108
61 ( <b>77,110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: 090903B02  
Sample ID: HEXANE BLANK  
Date Acquired: 09/03/2009 09:57:32 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-781-2

# MDL Studies

TABLE 1

Method Detection Limit Study

Method(s): Congener Specific Green Bay Low-level Method SOP: NE207\_01.doc  
 Compound: Green Bay PCB Standard at various levels: 37.6ng/L,157ng/L, 627ng/L  
 Matrix: Water - 1 liter  
 Extraction: SPE (EPA 3535) SOP: NE178\_01.doc  
 Date Extracted: 10/03/03,10/16/03,10/21/03,10/22/03  
 Date Analyzed: 10/24-25/03,10/18/03,10/23/03

Analysis: Internal Standard by Area  
 Instrument: GC-16 Agilent 6890  
 Column: DB-1; 30 meter x 0.25 mm x 0.25 µm  
 Detector: mirco-ECD

Peak Number (IUPAC Number)	MDL Concentration (ng/L)	MDL Recovery Sample #1 (ng/L)	MDL Recovery Sample #2 (ng/L)	MDL Recovery Sample #3 (ng/L)	MDL Recovery Sample #4 (ng/L)	MDL Recovery Sample #5 (ng/L)	MDL Recovery Sample #6 (ng/L)	MDL Recovery Sample #7 (ng/L)	MDL Recovery Sample #8 (ng/L)	Average MDL Recovery (ng/L)	Standard Deviation (ng/L)	%RSD (%)	Method Detection Limit (ng/L)
2 (1)	2.63	2.91	2.66	2.94	2.43	2.71	2.87	2.56	2.95	2.75	0.194	7.05	0.582
3 (2)	Supp. Congener												
4 (3)	1.54	1.44	1.69	1.54	1.48	1.46	1.54	1.72	1.53	1.55	0.106	6.84	0.318
5 (4,10)	0.746	0.921	1.15	1.03	0.909	0.920	0.750	0.935	0.824	0.930	0.121	13.0	0.363
6 (7,9)	0.263	0.244	0.248	0.277	0.222	0.216	0.298	0.243	0.286	0.254	0.0298	11.7	0.0894
7 (6)	0.417	0.649	0.660	0.590	0.621	0.692	0.774	0.573	0.650	0.651	0.0626	9.61	0.188
8 (5,8)	3.07	2.67	3.10	2.92	2.83	2.96	2.96	2.60	2.68	2.84	0.176	6.20	0.528
9 (14)	Supp. Congener												
10 (19)	0.256	0.281	0.262	0.231	0.262	0.279	0.253	0.224	0.281	0.259	0.0220	8.49	0.0660
11 (30)	Supp. Congener												
12 (11)	Supp. Congener												
13 (12,13)	0.244	0.197	0.217	0.215	0.229	0.214	0.231	0.261	0.248	0.227	0.0206	9.09	0.0617
14 (15,18)	0.811	0.698	0.699	0.710	0.737	0.728	0.702	0.708	0.628	0.701	0.0326	4.65	0.0978
15 (17)	0.811	0.830	0.884	0.862	0.915	0.865	0.786	0.837	0.777	0.845	0.0473	5.60	0.142
16 (24,27)	0.0570	0.128	0.0683	0.0959	0.147	0.0870	0.123	0.100	0.0927	0.105	0.0254	24.2	0.0762
17 (16,32)	0.855	0.754	0.784	0.842	0.827	0.928	0.778	0.815	0.862	0.824	0.0552	6.70	0.165
19 (23,34,54)	Supp. Congener												
20 (29)	0.0485	0.0440	0.0439	0.0556	0.0478	0.0452	0.0476	0.0527	0.0346	0.0464	0.00634	13.6	0.0190
21 (26)	0.158	0.125	0.139	0.102	0.163	0.0983	0.128	0.133	0.101	0.124	0.0225	18.2	0.0674
22 (25)	0.292	0.388	0.373	0.331	0.345	0.323	0.379	0.377	0.426	0.368	0.0337	9.16	0.101
23 (31)	0.904	0.713	0.790	0.771	0.765	0.740	0.723	0.643	0.690	0.729	0.0481	6.60	0.144
24 (28,50)	1.16	0.879	1.00	1.04	1.01	1.08	1.06	1.00	0.992	1.01	0.0614	6.09	0.184
25 (20,21,33,53)	0.871	0.816	0.848	0.825	0.861	0.789	0.783	0.745	0.767	0.804	0.0402	5.00	0.121
26 (22,51)	0.636	0.661	0.818	0.752	0.666	0.638	0.623	0.654	0.695	0.688	0.0656	9.53	0.197
27 (45)	0.195	0.152	0.227	0.198	0.253	0.170	0.219	0.178	0.230	0.203	0.0349	17.1	0.105
28 (36)	Supp. Congener												
29 (46)	0.366	0.352	0.397	0.334	0.331	0.438	0.354	0.413	0.388	0.376	0.0391	10.4	0.117
30 (39)	Supp. Congener												
31 (52,69,73)	1.05	0.967	1.15	0.985	1.08	1.01	1.06	1.00	0.987	1.03	0.0602	5.85	0.180
32 (43,49)	0.504	0.468	0.509	0.488	0.460	0.465	0.463	0.466	0.466	0.473	0.0170	3.58	0.0508
33 (38,47)	0.219	0.197	0.232	0.200	0.215	0.156	0.193	0.189	0.183	0.195	0.0224	11.4	0.0671
34 (48,75)	0.219	0.210	0.199	0.200	0.247	0.195	0.218	0.225	0.192	0.211	0.0188	8.90	0.0562
35 (62,65)	Supp. Congener												
36 (35)	Supp. Congener												
37 (104,44)	0.943	0.932	1.05	1.01	1.03	0.996	0.993	0.942	0.972	0.990	0.0406	4.09	0.122
38 (37,42,59)	0.570	0.300	0.418	0.376	0.358	0.319	0.399	0.316	0.373	0.357	0.0420	11.8	0.126
39 (41,64,71,72)	0.899	0.888	0.910	0.927	0.998	0.972	0.864	0.888	0.861	0.914	0.0495	5.42	0.148
41 (68,96)	Supp. Congener												
42 (40)	0.859	0.783	0.762	0.809	0.780	0.782	0.844	0.856	0.808	0.803	0.0330	4.11	0.0990
43 (57,103)	Supp. Congener												
44 (58,67,100)	0.100	0.0817	0.101	0.089	0.0834	0.0978	0.0833	0.0963	0.0964	0.0912	0.00774	8.48	0.0232
45 (63)	0.192	0.147	0.255	0.247	0.223	0.244	0.243	0.275	0.228	0.228	0.0382	16.4	0.115
46 (74,94,61)	0.417	0.408	0.375	0.401	0.374	0.372	0.396	0.365	0.375	0.383	0.0159	4.16	0.0478
47 (70)	0.746	0.628	0.595	0.638	0.627	0.616	0.694	0.582	0.586	0.621	0.0362	5.83	0.108
48 (66,76,98,80,93,95,102,88)	1.58	1.36	1.27	1.42	1.36	1.36	1.47	1.19	1.295	1.34	0.0890	6.64	0.267
49 (55,91,121)	0.112	0.135	0.130	0.124	0.118	0.118	0.123	0.104	0.122	0.122	0.00928	7.62	0.0278
50 (56,60)	0.767	0.630	0.700	0.701	0.684	0.684	0.653	0.642	0.638	0.667	0.0289	4.33	0.0865
51 (84,92,155)	0.395	0.500	0.429	0.476	0.405	0.524	0.385	0.346	0.539	0.451	0.0697	15.5	0.209
52 (89)	0.0914	0.0975	0.0861	0.0928	0.0730	0.0807	0.0826	0.0717	0.102	0.0858	0.0110	12.8	0.0328



PCB SAMPLE DATA SUMMARY PACKAGE FOR:

ANCHOR QUANTITATIVE ENVIRONMENTAL ANALYSIS, LLC  
305 WEST GRAND AVENUE  
MONTVALE, NEW JERSEY 07645

TOTAL PCB: GREEN BAY METHOD (NE207\_03.DOC)

DATE: September 23, 2009-C

LRF: 09090269

PROVIDED BY : NORTHEAST ANALYTICAL, INC.  
2190 TECHNOLOGY DRIVE  
SCHENECTADY, NEW YORK 12308  
518-346-4592



**TABLE OF CONTENTS**

<u>SECTION</u>	<u>PAGE</u>
CASE NARRATIVE .....	4
SAMPLE CHAIN OF CUSTODY .....	6
INTERNAL SAMPLE TRACKING RECORD .....	8
SURROGATE RECOVERY SUMMARY .....	11
LABORATORY CONTROL SPIKE SUMMARY .....	20
METHOD BLANK SUMMARY .....	22
SAMPLE ANALYSIS DATA .....	24
SAMPLE GC INJECTION LOG (GC-16) .....	59
SAMPLE GC INJECTION LOG (GC-24) .....	63
STANDARDS SUMMARY TABLES (GC-16) .....	67
STANDARDS SUMMARY TABLES (GC-24) .....	114
CALIBRATION COMPONENT SUMMARY TABLES (GC-16) .....	161
CALIBRATION COMPONENT SUMMARY TABLES (GC-24) .....	165
STANDARDS RAW DATA (GC-16) .....	169
STANDARDS RAW DATA (GC-24) .....	192
QC SAMPLE RAW DATA .....	215
MDL STUDIES .....	236

# Case Narrative

October 15, 2009

CASE NARRATIVE

This data package (NEA SDG ID: 09090269) consists of 7 water samples received on 09/22/2009. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AM17215	WFF-BDUP-090922-BT001	09/22/2009
AM17216	WFF-LOC5-090922-BT001	09/22/2009 13:16
AM17217	WFF-SCHU-090922-BT001	09/22/2009 12:50
AM17218	WFF-THIS-090922-BT001	09/22/2009 11:10
AM17219	WFF-TIDA-090922-BT001	09/22/2009 11:20
AM17220	WFF-WAFA-090922-BT001	09/22/2009 09:21
AM17221	WFF-WAFO-090922-BT001	09/22/2009 09:00

Sample Delivery and Receipt Conditions

- (1.) Northeast Analytical provided sample pickup service on 09/22/2009.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 17.5 degrees Celsius; which exceeds the six degree temperature limit. Samples were collected and received at the laboratory on the same day and ice was present in the cooler. Please see Chain of Custody for details.

Total PCBs by Green Bay Method (1L)

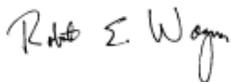
Analysis for Total PCBs was performed by NEA SOP NE207\_03. Samples were extracted by USEPA SW-846 Method 3535 Solid Phase Extraction. One-liter water samples were extracted by NEA SOP NE178\_03. The following technical and administrative items were noted for the analysis:

- (1.) Note: Hudson River Bias Correction applied (v09/23/2004) to GC Column peaks 5, 8, and 14 (which are comprised of congeners IUPAC 4 and 10; IUPAC 5 and 8; and IUPAC 15 and 18, respectively). Please see SOP NE207\_03 for details.
- (2.) Peak 21, Peak 22, Peak 27, Peak 44, Peak 49, Peak 5, Peak 51, Peak 55, Peak 57, and Peak 63 were observed in the Method Blank sample. All associated positive sample concentration results have been flagged (B) to denote the observed contamination.
- (3.) Samples (NEA ID: AM17215, AM17216, AM17217, AM17218, and AM17219) were cancelled as per Kevin Ballou of Anchor QEA.
- (4.) Samples (NEA ID: AM17220 and AM1721) required additional analysis at a dilution for Peak 5, Peak 10, and Peak 16 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a NEA ID suffix of DL1. The concentration for Peak 5, Peak 10, and Peak 16 are included in the original analysis to provide the correct PCB total concentration.

Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the PQL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



Robert E. Wagner  
Laboratory Director & Founder

S:\Lims Data\0909\09090269\Package\CN\_09090269\_Rev00.doc

# Sample Chain Of Custody



385 West Grand Avenue Montvale, NJ 07645 PH: 201-930-9690

Client: General Electric Company

### ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC090922-BNEA-01

Sample Custodian: DF

Lab: NEA

COC Sample Number	Field Sample ID	QA/QC	MS	MSD	LD	Matrix **	Date Collected	Time Collected	Media*	# Containers	4degC									
											CS PCBs NE207_03									
001	WFF-BDUP-090922-BT001	DUP	N	N	N	W	09/22/2009		W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
002	WFF-LOC5-090922-BT001	ENV	N	N	N	W	09/22/2009	13:16	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM17215							
003	WFF-SCHU-090922-BT001	ENV	N	N	N	W	09/22/2009	12:50	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM17216							
004	WFF-THIS-090922-BT001	ENV	N	N	N	W	09/22/2009	11:10	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM17217							
005	WFF-TIDA-090922-BT001	ENV	N	N	N	W	09/22/2009	11:20	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM17218							
006	WFF-WAFA-090922-BT001	ENV	N	N	N	W	09/22/2009	09:21	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM17219							
007	WFF-WAFO-090922-BT001	ENV	N	N	N	W	09/22/2009	09:00	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM17220							
										1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM17221							

AM17215  
AM17216  
AM17217  
AM17218  
AM17219  
AM17220  
AM17221

Comments: Temp → 17.5°C ice present

Relinquished by:		Received by:		Relinquished by:		Received by:		Relinquished by:		Received by:	
Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company	Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
9/22/09 11:33	9-22-09 15:00	9-22-09 16:10	9-22-09 16:10								

Date Printed: 9/22/2009

\* S= SEDIMENT, W= WATER \*\* T = Total, D = Dissolved, R = Residue  
\*\*\* Air Tight Container; preserved at lab if not analyzed within 48 hrs.

# Internal Sample Tracking Record

AQUEOUS EXTRACTION LOG



**Prep Date: 09/22/2009**

**Batch ID: 9373**

Initial for required Clean Up Steps

	Prep ID	NEA Sample ID	Alt Sample ID	Client	Extraction Type	Matrix	Sample Amount (g or mL)	TS %	Final Ext. Vol (mL)	Date Ext (MM/DD)	Extract Time On	Extract Time Off	Date Conc (MM/DD)	Initial for required Clean Up Steps				Cell / Unit #	Job	pH	Comments
														KMR		KMR	KMR				
1	91607	CEBLK-72	AM17150B	GE	SPE-1L	Water	1000	NA	5	09/22	NA	NA	09/22	09/22	NA	09/22	09/22	I1	E CON1L	5	
2	91608	LCS-72	AM17150L	GE	SPE-1L	Water	1000	NA	5	09/22	NA	NA	09/22	09/22	NA	09/22	09/22	I2	E CON1L	5	
5	91636	09090269-01	AM17215	GE	SPE-1L	Water	1010	NA	5	09/22	NA	NA	09/22	09/22	NA	09/22	09/22	L8	E CON1L	5	
6	91637	09090269-02	AM17216	GE	SPE-1L	Water	1060	NA	5	09/22	NA	NA	09/22	09/22	NA	09/22	09/22	L7	E CON1L	5	
7	91638	09090269-03	AM17217	GE	SPE-1L	Water	1010	NA	5	09/22	NA	NA	09/22	09/22	NA	09/22	09/22	L6	E CON1L	5	
8	91639	09090269-04	AM17218	GE	SPE-1L	Water	1010	NA	5	09/22	NA	NA	09/22	09/22	NA	09/22	09/22	L5	E CON1L	5	
9	91640	09090269-05	AM17219	GE	SPE-1L	Water	1060	NA	5	09/22	NA	NA	09/22	09/22	NA	09/22	09/22	L4	E CON1L	5	
10	91641	09090269-06	AM17220	GE	SPE-1L	Water	1060	NA	5	09/22	NA	NA	09/22	09/22	NA	09/22	09/22	L3	E CON1L	5	
11	91642	09090269-07	AM17221	GE	SPE-1L	Water	1010	NA	5	09/22	NA	NA	09/22	09/22	NA	09/22	09/22	L2	E CON1L	5	

**Solvent, Surrogate, Spike, and Acid Information**

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone (cu)	041409B27P21C	200	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (current)	CZ366	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane (current)	CZ377	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane	CZ440	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (CSGB only)current	090618F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol (current)	49107	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk (current)	H25N14	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury(current)	080314	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only)current	090818A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone	082609B27P144A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SPIKED BY: Kelly Ryan

WITNESSED BY: Kirby Jewett

SIGNATURE: *Kelly Ryan*

SIGNATURE: *Kirby L Jewett*

# CONGENER AQUEOUS SCREEN SHEET

Batch ID: 9373

Prepared by: Kelly Ryan

NEA Sample ID	Alt Sample ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Dilution Sequence	Final Multiplier
CEBLK-72	AM17150B	Water	09/22/09	1000	5	NA		N/A	5x
LCS-72	AM17150L	Water	09/22/09	1000	5	NA		N/A	5x
09090269-01	AM17215	Water	09/22/09	1010	5	NA			
09090269-02	AM17216	Water	09/22/09	1060	5	NA			
09090269-03	AM17217	Water	09/22/09	1010	5	NA			
09090269-04	AM17218	Water	09/22/09	1010	5	NA			
09090269-05	AM17219	Water	09/22/09	1060	5	NA			
09090269-06	AM17220	Water	09/22/09	1060	5	NA		N/A / 1-10	5x / 50x
09090269-07	AM17221	Water	09/22/09	1010	5	NA		N/A / 1-10	5x / 50x

Solvent, Surrogate, Spike, and Acid Information      B=Blank, L=Lab Control Spike, LD=Lab Control Spike Duplicate, S=Sample, D=Duplicate, M=Matrix Spike, K=Matrix Spike Duplicate

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone (cur	041409B27P21C	200	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (current)	CZ366	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane (current)	CZ377	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane	CZ440	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (CSGB only)current	090618F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol (current)	49107	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk (current)	H25N14	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury(current)	080314	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only)current	090818A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone	082609B27P144A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

JK 9/24/09

COMMENTS: \_\_\_\_\_

# Surrogate % Recovery Summary

## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Lab Name: Northeast Analytical, Inc.

SDG No: 09090269

ELAP ID No: 11078

Init. Calib. Date(s): 08/23/2009

GC Column (1): Agilent DB-1; 30 meter; 0.25 micron phase thickness

Instrument ID: GC16

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS:							
IUPAC 207: <u>40.98</u>							
	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)
01	ICAL 6.25 ng/mL	ICAL0823A	GC16-769-3	08/23/2009 04:27:16			
02	ICAL 12.5 ng/mL	ICAL0823B	GC16-769-4	08/23/2009 05:34:46			
03	ICAL 125 ng/mL	ICAL0823C	GC16-769-5	08/23/2009 06:42:13			
04	ICAL 314 ng/mL	ICAL0823D	GC16-769-6	08/23/2009 07:49:33			
05	ICAL 627 ng/mL	ICAL0823E	GC16-769-7	08/23/2009 08:56:52			
06	SUP CONG STD 200/5 ng/mL	SC0823A	GC16-769-9	08/23/2009 11:11:32			
07	Surr Std (207) 2.0 ng/mL	SS0823A	GC16-769-10	08/23/2009 12:18:49			
08	Surr Std (207) 20.0 ng/mL	SS0823B	GC16-769-11	08/23/2009 13:26:05			
09	Surr TCMX/DCBP 5/50 ppb	TD0823A	GC16-769-12	08/23/2009 14:33:23			
10	HEXANE BLANK	090922B02	GC16-798-2	09/22/2009 09:30:57			
11	CCC Std 122 ng/mL	CCCS0922A	GC16-798-3	09/22/2009 10:38:25			
12	CEBLK-72(METHOD BLANK)	AM17150B	GC16-798-4	09/22/2009 11:45:42	40.96	-0.02	94.2
13	LCS-72(LAB CONTROL SPIKE)	AM17150L	GC16-798-5	09/22/2009 12:53:07	40.95	-0.03	92.0
14	CCC Std 122 ng/mL	CCCS0922B	GC16-798-10	09/22/2009 18:30:15			

**PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY**

Lab Name: Northeast Analytical, Inc.

SDG No: 09090269

ELAP ID No: 11078

Init. Calib. Date(s): 09/05/2009

GC Column (1): PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

Instrument ID: GC24

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS: IUPAC 207: <u>39.47</u>
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	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)
01	ICAL 6.25 ng/mL	ICAL0905A	GC24-163-3	09/05/2009 05:01:29			
02	ICAL 12.5 ng/mL	ICAL0905B	GC24-163-4	09/05/2009 06:06:56			
03	ICAL 125 ng/mL	ICAL0905C	GC24-163-5	09/05/2009 07:12:23			
04	ICAL 314 ng/mL	ICAL0905D	GC24-163-6	09/05/2009 08:17:51			
05	ICAL 627 ng/mL	ICAL0905E	GC24-163-7	09/05/2009 09:23:21			
06	SUP CONG STD 200/5 ng/mL	SC0905A	GC24-163-9	09/05/2009 11:34:20			
07	Surr Std (207) 2.0 ng/mL	SS0905A	GC24-163-10	09/05/2009 12:40:05			
08	Surr Std (207) 20.0 ng/mL	SS0905B	GC24-163-11	09/05/2009 13:45:34			
09	Surr TCMX/DCBP 5/50 ppb	TD0905A	GC24-163-12	09/05/2009 14:51:02			
10	CCC Std 122 ng/mL	CCCS0922C	GC24-175-15	09/23/2009 09:07:10			
11	WFF-WAFA-090922-BT001	AM17220	GC24-175-18	09/23/2009 12:23:41	39.43	-0.04	78.7
12	WFF-WAFA-090922-BT001	AM17220DL1	GC24-175-19	09/23/2009 13:29:14	39.45	-0.02	104
13	WFF-WAFO-090922-BT001	AM17221	GC24-175-20	09/23/2009 14:34:46	39.44	-0.03	82.0
14	WFF-WAFO-090922-BT001	AM17221DL1	GC24-175-21	09/23/2009 15:40:17	39.43	-0.04	123
15	CCC Std 122 ng/mL	CCCS0922D	GC24-175-22	09/23/2009 16:45:50			



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Sample Name:	AM17150B	Sample Amount:	1.000 L
Sample ID:	METHOD BLANK	Dilution:	5
Date Acquired:	09/22/2009 11:45:42	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	09/22/2009 20:34:47
Sample Set Name:	GC16_092209a	User Name:	Kari Lantiegne
Processing Method:	CSGB_LL1X_082309	Current Time:	21:06:27
Run Time:	60 Minutes	Current Date:	09/24/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-798-4

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.96	196392	18.841	94.2
2	I.S. (OCN)	47.00	180892	3.636	



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Sample Name:	AM17150L	Sample Amount:	1.000 L
Sample ID:	LAB CONTROL SPIKE	Dilution:	5
Date Acquired:	09/22/2009 12:53:07	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	09/22/2009 20:42:07
Sample Set Name:	GC16_092209a	User Name:	Kari Lantiegne
Processing Method:	CSGB_LL1X_082309	Current Time:	21:06:27
Run Time:	60 Minutes	Current Date:	09/24/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-798-5

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.95	194214	18.410	92
2	I.S. (OCN)	46.99	183073	3.636	



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Sample Name:	AM17220	Sample Amount:	1.060 L
Sample ID:	WFF-WAFA-090922-BT001	Dilution:	5
Date Acquired:	09/23/2009 12:23:41	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/24/2009 02:36:05
Sample Set Name:	GC24_092209b	User Name:	Kari Lantiegne
Processing Method:	CSGB_LL1X_090509	Current Time:	21:06:27
Run Time:	60 Minutes	Current Date:	09/24/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-175-18

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.43	127220	15.741	78.7
2	I.S. (OCN)	45.10	176230	3.854	



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Sample Name:	AM17220DL1	Sample Amount:	1.060 L
Sample ID:	WFF-WAFA-090922-BT001	Dilution:	50
Date Acquired:	09/23/2009 13:29:14	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/24/2009 00:52:39
Sample Set Name:	GC24_092209b	User Name:	Kari Lantiegne
Processing Method:	CSGB_S_20_090509	Current Time:	21:06:27
Run Time:	60 Minutes	Current Date:	09/24/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-175-19

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.45	18260	2.082	104
2	I.S. (OCN)	45.09	191196	0.385	



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Sample Name:	AM17221	Sample Amount:	1.010 L
Sample ID:	WFF-WAFO-090922-BT001	Dilution:	5
Date Acquired:	09/23/2009 14:34:46	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/24/2009 02:47:41
Sample Set Name:	GC24_092209b	User Name:	Kari Lantiegne
Processing Method:	CSGB_LL1X_090509	Current Time:	21:06:27
Run Time:	60 Minutes	Current Date:	09/24/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-175-20

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.44	139613	16.390	82
2	I.S. (OCN)	45.09	185735	3.672	



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Sample Name:	AM17221DL1	Sample Amount:	1.010 L
Sample ID:	WFF-WAFO-090922-BT001	Dilution:	50
Date Acquired:	09/23/2009 15:40:17	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/24/2009 00:53:19
Sample Set Name:	GC24_092209b	User Name:	Kari Lantiegne
Processing Method:	CSGB_S_20_090509	Current Time:	21:06:27
Run Time:	60 Minutes	Current Date:	09/24/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-175-21

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.43	20205	2.470	123
2	I.S. (OCN)	45.08	178373	0.367	

# Laboratory Control Spike Summary

## PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Northeast Analytical, Inc.

ELAP ID No: 11078

SDG No: 09090269

LCS ID: LCS-72

Blank Sample ID: CEBLK-72

LCS File ID: GC16-798-5

Method Blank File ID: GC16-798-4

LCS Inj Date: 09/22/2009 12:53:07

Method Blank Inj Date: 09/22/2009 11:45:42

LCS NEA ID No: AM17150L

Method Blank NEA ID No: AM17150B

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS PERCENT RECOVERY #	QC LIMITS PERCENT RECOVERY
Total PCBs	200	237	119	60.0-140

# Column to be used to flag recovery values.

\* Value outside of QC limits.

Comments: \_\_\_\_\_  
 \_\_\_\_\_

# Method Blank Summary

**PCB METHOD BLANK SUMMARY**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09090269</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>CEBLK-72</u>
Matrix:	<u>ORGANIC FREE WATER</u>	Client ID:	<u>CEBLK-72(METHOD BLANK)</u>
Sample Wt(Dry)/Vol:	<u>1000 mL</u>	Lab Sample ID:	<u>AM17150B</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC16-798-4</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>09/22/2009</u>
Injection Volume:	<u>0.5 uL</u>	Date/Time Analyzed:	<u>09/22/2009 11:45</u>
Analytical SOP Reference:	<u>SOP NE207_03.DOC</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>Agilent DB-1; 30 meter; 0.25 micron phase thickness</u>		

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

# Sample Analysis Data

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 1060 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

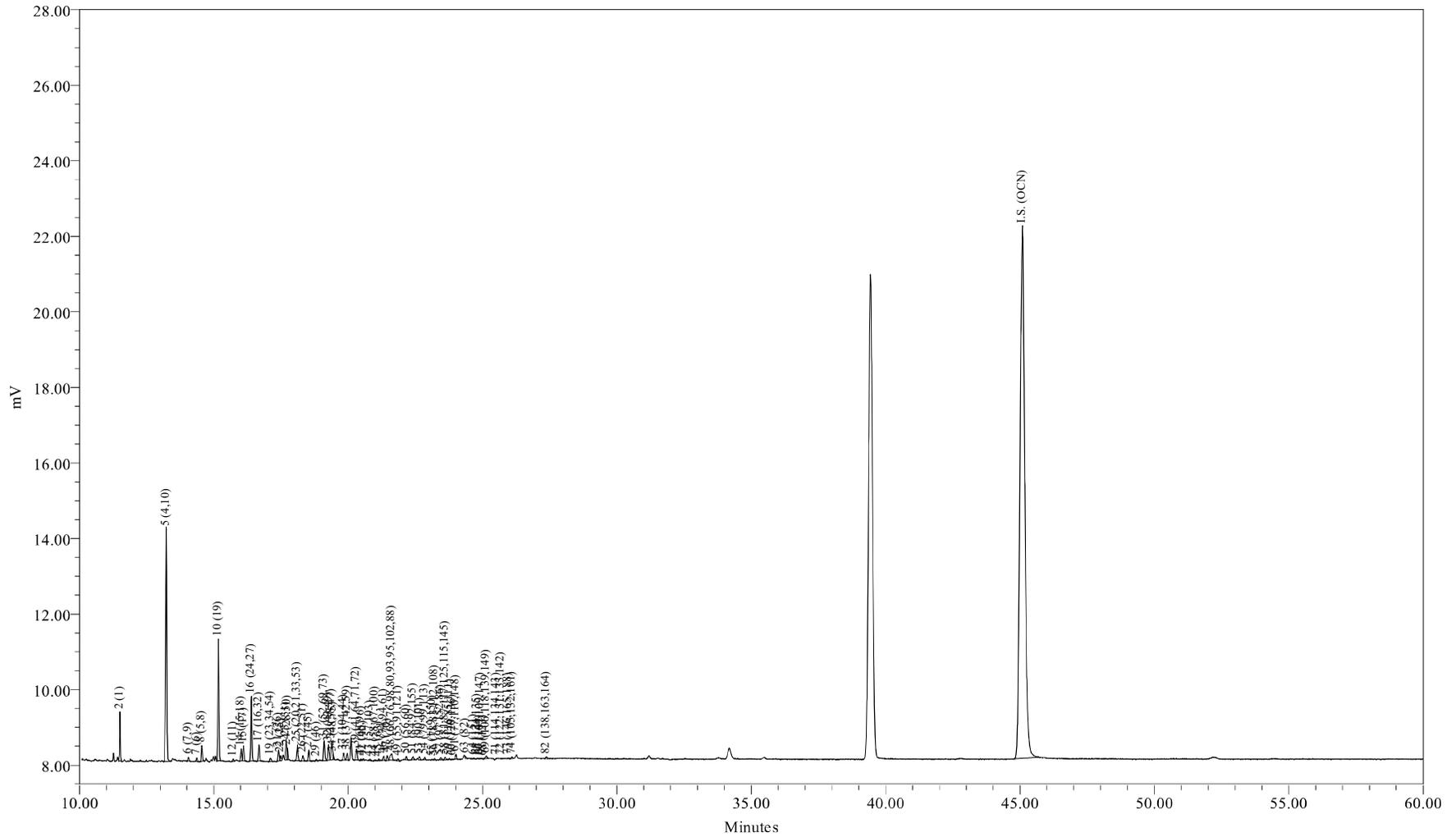
SDG No: 09090269  
LRF ID: 09090269-06  
Client ID: WFF-WAFA-090922-BT001  
Lab Sample ID: AM17220  
Lab File ID: GC24-175-18  
Date Received: 09/22/2009  
Date Extracted: 09/22/2009  
Date/Time Analyzed: 09/23/2009 12:23  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 176230

Percent Recovery (50 - 150 %): 103

SAMPLE TOTAL PCB CONCENTRATION: 237 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM17220  
Sample ID: WFF-WAFA-090922-BT001  
Date Acquired: 09/23/2009 12:23:41 EDT

Sample Amount (L) : 1.0600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-175-18

Sample Name: AM17220

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090922-BT001  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 12:23:41  
 Lab Sample ID: AM17220  
 LRF ID: 09090269-06  
 Lab File ID: GC24-175-18

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 237 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	22.70	26.61
Di	56.65	56.15
Tri	16.27	13.97
Tetra	3.62	2.75
Penta	0.76	0.51
Hexa	0.01	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	53.8135	95.4	95.8
A1242	23+24/31+28	2.3462	4.16	4.18
A1254SED	61/100	0.2671	0.473	
A1254BIO	69+75+82/149+153+138			0
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.76

Meta + Para Cl / biphenyl Residue = 0.19

Total Cl / biphenyl Residue = 1.94

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090922-BT001  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 12:23:41  
 Lab Sample ID: AM17220  
 LRF ID: 09090269-06  
 Lab File ID: GC24-175-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7	2433	53.8	285	0.529	2.19	
3	12.52	188.7				6.63	1000	U
4	12.63	188.7				0.355	1.28	U
5	13.23	223.1	2476	130	583	1.34	6.21	B
6	14.05	223.1	274	0.305	1.37	0.0721	0.219	
7	14.36	223.1	211	0.590	2.64	0.158	0.347	
8	14.55	223.1	1105	1.78	7.97	0.542	2.56	J
9	15.11	223.1				0.294	25.0	U
10	15.17	257.5	1183	19.0	74.0	0.604	1.02	
11	15.64	257.5				0.198	25.0	U
12	15.72	223.1	137	1.17	5.22	0.306	25.0	J
13	15.92	223.1				0.0559	0.0975	U
14	16.02	249.0	839	1.73	6.96	0.128	0.676	
15	16.11	257.5	1139	3.08	12.0	0.143	0.676	
16	16.40	257.5	603	5.85	22.7	0.374	0.475	
17	16.68	257.5	1218	2.26	8.77	0.166	0.713	
19	17.11	267.9	295	0.472	1.76	0.128	25.0	J
20	17.29	257.5				0.0108	0.0194	U
21	17.41	257.5	862	1.31	5.09	0.0606	0.132	B
22	17.49	257.5	444	0.480	1.86	0.0426	0.0585	B
23	17.69	257.5	1638	1.92	7.45	0.487	0.753	
24	17.74	257.5	710	0.428	1.66	0.211	0.964	J
25	18.11	259.5	1272	1.70	6.54	0.105	0.726	
26	18.31	258.7	441	0.566	2.19	0.120	0.530	
27	18.53	292.0	830	1.02	3.48	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.81	292.0	126	0.189	0.647	0.127	0.127	
30	18.96	257.5				0.120	25.0	U
31	19.10	292.0	1564	2.59	8.88	0.204	0.872	
32	19.27	292.0	1285	1.12	3.84	0.0978	0.420	
33	19.39	292.0	1746	1.05	3.58	0.0656	0.183	
34	19.44	292.0	157	0.120	0.413	0.0579	0.183	J
35	19.59	292.0				0.205	25.0	U
36	19.69	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.83	292.0	611	0.276	0.946	0.160	0.786	J
38	19.96	272.4	546	0.705	2.59	0.115	0.475	J
39	20.31	292.0	937	0.658	2.25	0.121	0.749	J
41	20.47	326.4	105	0.154	0.473	0.115	25.0	J
42	20.57	292.0	126	0.141	0.482	0.0968	0.172	J
43	20.81	298.9	60			0.152	25.0	U
44	20.99	298.9	64	0.0485	0.162	0.0225	0.0402	B
45	21.14	292.0	99	0.0800	0.274	0.0299	0.0384	J
46	21.32	292.0	321	0.127	0.435	0.0821	0.347	J
47	21.45	292.0	392			0.164	0.621	U
48	21.61	293.5	910	0.623	2.12	0.243	1.32	J
49	21.86	324.7	187	0.195	0.601	0.0376	0.0932	B
50	22.17	292.0	257			0.359	0.640	U
51	22.42	326.4	292	0.470	1.44	0.0888	0.329	B
52	22.51	326.4				0.0384	0.0384	U
53	22.66	326.4	287	0.141	0.432	0.0691	0.329	J
54	22.85	326.4	153			0.101	0.135	U
55	23.13	326.4	17	0.00924	0.0283	0.00644	0.0102	JB
56	23.23	326.4	122	0.125	0.383	0.0647	0.0647	J
57	23.43	326.4	224	0.150	0.460	0.0435	0.102	B
58	23.61	326.4	218	0.146	0.448	0.0841	0.212	J
59	23.76	326.4	69			0.0484	0.128	U
60	23.88	360.9	14			0.0772	0.137	U
61	24.01	326.4	388	0.267	0.818	0.0668	0.389	J
62	24.29	360.9				0.113	25.0	U
63	24.35	326.4	190	0.0995	0.305	0.0201	0.0804	B
64	24.67	360.9	81			0.0518	0.311	U
65	24.79	350.5	39	0.0220	0.0628	0.0149	0.0530	J
66	24.87	360.9	14			0.0541	0.110	U
67	24.93	336.8	36			0.0348	0.0475	U
68	25.03	326.4	4			0.125	25.0	U
69	25.13	337.5	292			0.0938	0.731	U
70	25.24	360.9				0.0829	25.0	U
71	25.51	347.8	18			0.0348	0.0369	U
72	25.69	336.8	16			0.00638	0.0106	U
73	25.96	360.9	60			0.0320	0.0713	U
74	26.09	347.8	164			0.0721	0.248	U
75	26.25	360.9				0.109	0.538	U
76	26.37	360.9				0.107	25.0	U
77	26.76	360.9				0.0637	0.311	U
78	26.81	395.3				0.0470	0.267	U
79	27.02	360.9				0.0501	0.0501	U
80	27.16	360.9				0.0151	0.0475	U
82	27.38	360.9	197			0.108	0.493	U
83	27.55	360.9				0.0450	0.0457	U
84	27.74	360.9				0.00310	0.00473	U
85	28.07	395.3				0.0677	0.201	U
87	28.36	395.3				0.0156	0.0731	U
88	28.50	395.3				0.102	0.658	U
89	28.62	360.9				0.0199	0.0366	U
90	28.79	395.3				0.0679	0.311	U
91	29.05	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.0225	0.0859	U
93	29.72	394.3				0.102	0.585	U
94	29.98	394.3				0.0936	0.311	U
95	30.26	382.2				0.0871	0.144	U
96	30.51	429.8				0.00942	0.0121	U
98	30.68	395.3				0.0133	0.0139	U
99	31.04	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.54	429.8				0.217	0.217	U
102	31.72	395.3				0.150	1.11	U
103	31.96	395.3				0.0640	0.0768	U
104	32.25	395.3				0.0374	0.0438	U
105	32.58	429.8				0.0460	0.0786	U
106	33.68	395.3				0.0538	0.234	U
107	33.95	395.3				0.0213	0.0768	U
108	34.76	429.8				0.0324	0.0438	U
109	34.98	429.8				0.116	0.768	U
110	35.50	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 237 ng/L

11.2 39.1

Total Nanomoles = 1.072

Average Molecular Weight = 221.2

Number of Calibrated Peaks Found = 59

Internal Standard Retention Time = 45.10 minutes

Internal Standard Peak Area = 176230.5

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090922-BT001  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 12:23:41  
 Lab Sample ID: AM17220  
 LRF ID: 09090269-06  
 Lab File ID: GC24-175-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2552	2	22.703	26.612
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2933	2-2; 26	54.851	54.380
6	14.05	2:1	007 009	0.3115	24; 25	0.129	0.128
7	14.36	2:1	006	0.3184	2-3	0.249	0.247
8	14.55	2:1	005 008	0.3226	23; 2-4	0.751	0.744
9	15.11	2:0	014		35	-	-
10	15.17	3:3	019	0.3364	26-2	8.035	6.902
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011	0.3486	3-3	0.492	0.487
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018	0.3552	4-4; 25-2	0.731	0.650
15	16.11	3:2	017	0.3572	24-2	1.301	1.117
16	16.40	3:2	024 027	0.3636	236; 26-3	2.466	2.119
17	16.68	3:2	016 032	0.3698	23-2; 26-4	0.953	0.818
19	17.11	3:1 4:4	023 034 054	0.3794	235; 35-2; 26-26	0.199	0.164
20	17.29	3:1	029		245	-	-
21	17.41	3:1	026	0.3860	25-3	0.553	0.475
22	17.49	3:1	025	0.3878	24-3	0.202	0.174
23	17.69	3:1	031	0.3922	25-4	0.809	0.695
24	17.74	3:1 4:3	028 050	0.3933	24-4; 246-2	0.181	0.155
25	18.11	3:1 4:3	020 021 033 053	0.4016	23-3; 234; 34-2; 25-26	0.716	0.611
26	18.31	3:1 4:3	022 051	0.4060	23-4; 24-26	0.239	0.204
27	18.53	4:3	045	0.4109	236-2	0.429	0.325
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4171	23-26	0.080	0.060
30	18.96	3:0	039		35-4	-	-
31	19.10	4:2	052 069 073	0.4235	25-25; 246-3; 26-35	1.094	0.829
32	19.27	4:2	043 049	0.4273	235-2; 24-25	0.473	0.358
33	19.39	4:2	038 047	0.4299	345; 24-24	0.441	0.334
34	19.44	4:2	048 075	0.4310	245-2; 246-4	0.051	0.039
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.83	5:4 4:2	104 044	0.4397	246-26; 23-25	0.117	0.088
38	19.96	3:0 4:2	037 042 059	0.4426	34-4; 23-24; 236-3	0.297	0.241
39	20.31	4:2	041 064 071 072	0.4503	234-2; 236-4; 26-34; 25-35	0.278	0.210

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096	0.4539	24-35; 236-26	0.065	0.044
42	20.57	4:2	040	0.4561	23-23	0.059	0.045
43	20.81	4:1 5:3	057 103		235-3; 246-25	-	-
44	20.99	4:1 5:3	058 067 100	0.4654	23-35; 245-3; 246-24	0.020	0.015
45	21.14	4:1	063	0.4687	235-4	0.034	0.026
46	21.32	4:1 5:3	074 094 061	0.4727	245-4; 235-26; 2345	0.054	0.041
47	21.45	4:1	070		25-34	-	-
48	21.61	4:1 5:3	066 076 098 080 093 095 102 088	0.4792	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.263	0.198
49	21.86	4:1 5:3	055 091 121	0.4847	234-3; 236-24; 246-35	0.082	0.056
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.42	5:3 6:4	084 092 155	0.4971	236-23; 235-25; 246-246	0.198	0.134
52	22.51	5:3	089		234-26	-	-
53	22.66	5:2	090 101	0.5024	235-24; 245-25	0.059	0.040
54	22.85	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.13	5:2 6:4	119 150	0.5129	246-34; 236-246	0.004	0.003
56	23.23	5:2	078 083 112 108	0.5151	345-3; 235-23; 2356-3; 2346-3	0.053	0.036
57	23.43	5:2 6:4	097 152 086	0.5195	245-23; 2356-26; 2345-2	0.063	0.043
58	23.61	5:2	081 087 117 125 115 145	0.5235	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.062	0.042
59	23.76	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.01	5:2	077 110 148	0.5324	34-34; 236-34; 235-246	0.113	0.076
62	24.29	6:3	154		245-246	-	-
63	24.35	5:2	082	0.5399	234-23	0.042	0.028
64	24.67	6:3	151		2356-25	-	-
65	24.79	5:1 6:3	124 135	0.5497	345-25; 235-236	0.009	0.006
66	24.87	6:3	144		2346-25	-	-
67	24.93	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.03	5:1	123		345-24	-	-
69	25.13	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.69	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.96	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.09	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.25	6:2	153		245-245	-	-
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.02	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162		234-234; 235-345	-	-
90	28.79	7:3	183		2346-245	-	-
91	29.05	6:1	167		245-345	-	-
92	29.37	7:3	185		23456-25	-	-
93	29.72	7:3	174 181		2345-236; 23456-24	-	-
94	29.98	7:3	177		2356-234	-	-
95	30.26	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.51	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.72	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 237 ng/L

Total Nanomoles = 1.072

Average Molecular Weight = 221.2

Number of Calibrated Peaks Found = 59

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

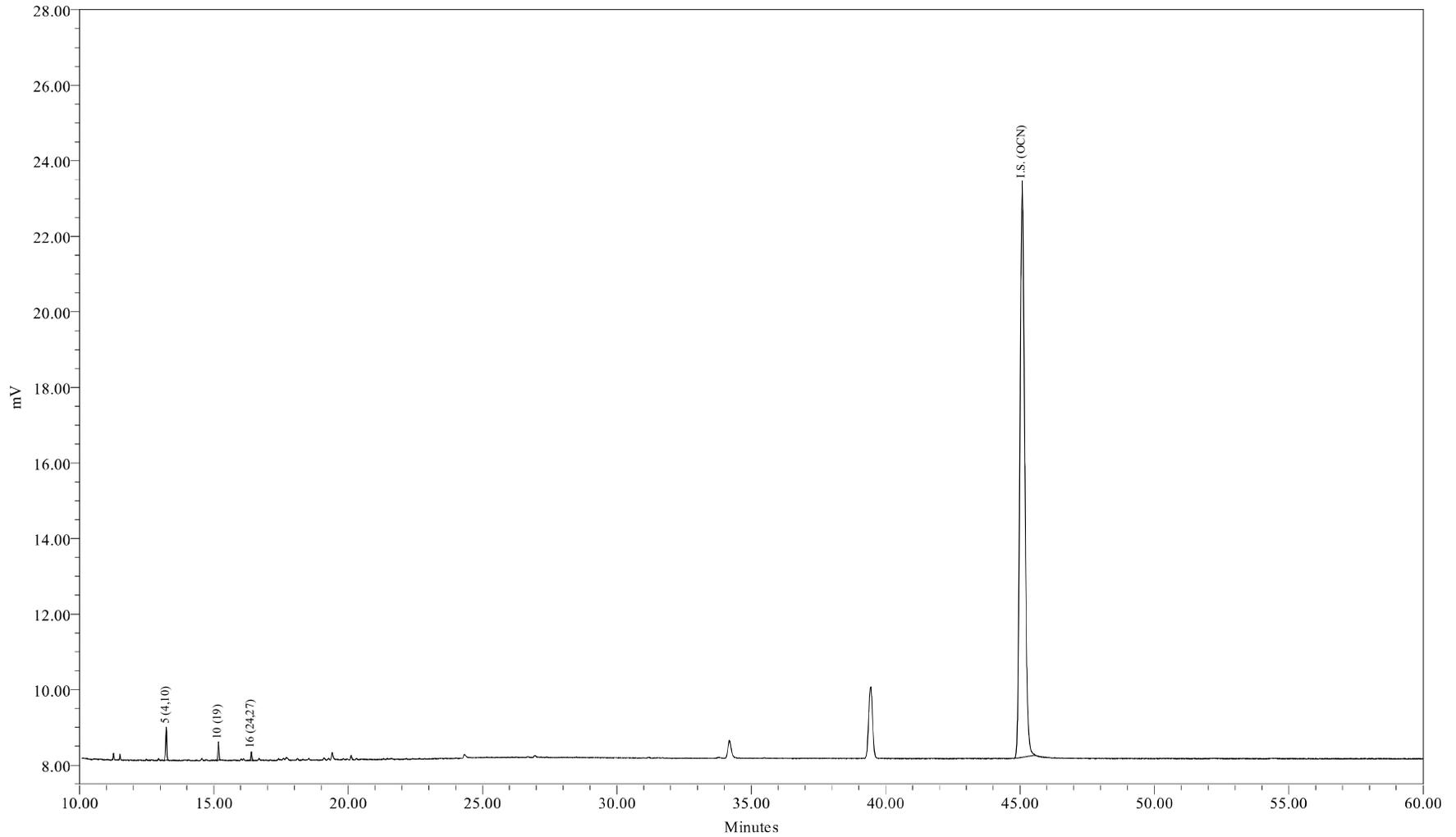
<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Sample Name: AM17220DL1  
Sample ID: WFF-WAFA-090922-BT001  
Date Acquired: 09/23/2009 13:29:14 EDT

Sample Amount (L) : 1.0600  
Dilution: 50  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-175-19

Sample Name: AM17220DL1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090922-BT001  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 13:29:14  
 Lab Sample ID: AM17220DL1  
 LRF ID: 09090269-06DL1  
 Lab File ID: GC24-175-19

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 155 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	83.93	85.77
Tri	16.07	14.23
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.11

Meta + Para Cl / biphenyl Residue = 0.03

Total Cl / biphenyl Residue = 2.14

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090922-BT001  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 13:29:14  
 Lab Sample ID: AM17220DL1  
 LRF ID: 09090269-06DL1  
 Lab File ID: GC24-175-19

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				5.29	21.9	U
3	12.52	188.7				66.3	10000	U
4	12.63	188.7				3.55	12.8	U
5	13.23	223.1	2476	130	583	1.34	6.21	B
6	14.06	223.1				0.721	2.19	U
7	14.37	223.1				1.58	3.47	U
8	14.55	223.1				5.42	25.6	U
9	15.11	223.1				2.94	250	U
10	15.17	257.5	1183	19.0	74.0	0.604	1.02	
11	15.64	257.5				1.98	250	U
12	15.72	223.1				3.06	250	U
13	15.92	223.1				0.559	0.975	U
14	16.02	249.0				1.28	6.76	U
15	16.11	257.5				1.43	6.76	U
16	16.40	257.5	603	5.85	22.7	0.374	0.475	
17	16.66	257.5				1.66	7.13	U
19	17.11	267.9				1.28	250	U
20	17.29	257.5				0.108	0.194	U
21	17.42	257.5				0.606	1.32	U
22	17.50	257.5				0.426	0.585	U
23	17.70	257.5				4.87	7.53	U
24	17.75	257.5				2.11	9.64	U
25	18.09	259.5				1.05	7.26	U
26	18.32	258.7				1.20	5.30	U
27	18.54	292.0				0.367	1.63	U
28	18.69	257.5				3.75	250	U
29	18.81	292.0				1.27	1.27	U
30	18.96	257.5				1.20	250	U
31	19.11	292.0				2.04	8.72	U
32	19.28	292.0				0.978	4.20	U
33	19.39	292.0				0.656	1.83	U
34	19.46	292.0				0.579	1.83	U
35	19.59	292.0				2.05	250	U
36	19.69	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				1.60	7.86	U
38	19.97	272.4				1.15	4.75	U
39	20.32	292.0				1.21	7.49	U
41	20.47	326.4				1.15	250	U
42	20.58	292.0				0.968	1.72	U
43	20.83	298.9				1.52	250	U
44	21.01	298.9				0.225	0.402	U
45	21.16	292.0				0.299	0.384	U
46	21.33	292.0				0.821	3.47	U
47	21.46	292.0				1.64	6.21	U
48	21.57	293.5				2.43	13.2	U
49	21.86	324.7				0.376	0.932	U
50	22.17	292.0				3.59	6.40	U
51	22.40	326.4				0.888	3.29	U
52	22.51	326.4				0.384	0.384	U
53	22.66	326.4				0.691	3.29	U
54	22.86	326.4				1.01	1.35	U
55	23.13	326.4				0.0644	0.102	U
56	23.23	326.4				0.647	0.647	U
57	23.44	326.4				0.435	1.02	U
58	23.61	326.4				0.841	2.12	U
59	23.77	326.4				0.484	1.28	U
60	23.88	360.9				0.772	1.37	U
61	24.02	326.4				0.668	3.89	U
62	24.29	360.9				1.13	250	U
63	24.38	326.4				0.201	0.804	U
64	24.68	360.9				0.518	3.11	U
65	24.81	350.5				0.149	0.530	U
66	24.88	360.9				0.541	1.10	U
67	24.95	336.8				0.348	0.475	U
68	25.04	326.4				1.25	250	U
69	25.12	337.5				0.938	7.31	U
70	25.24	360.9				0.829	250	U
71	25.51	347.8				0.348	0.369	U
72	25.71	336.8				0.0638	0.106	U
73	25.98	360.9				0.320	0.713	U
74	26.10	347.8				0.721	2.48	U
75	26.25	360.9				1.09	5.38	U
76	26.37	360.9				1.07	250	U
77	26.76	360.9				0.637	3.11	U
78	26.81	395.3				0.470	2.67	U
79	27.02	360.9				0.501	0.501	U
80	27.16	360.9				0.151	0.475	U
82	27.38	360.9				1.08	4.93	U
83	27.55	360.9				0.450	0.457	U
84	27.74	360.9				0.0310	0.0473	U
85	28.07	395.3				0.677	2.01	U
87	28.36	395.3				0.156	0.731	U
88	28.50	395.3				1.02	6.58	U
89	28.62	360.9				0.199	0.366	U
90	28.79	395.3				0.679	3.11	U
91	29.05	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.225	0.859	U
93	29.72	394.3				1.02	5.85	U
94	29.98	394.3				0.936	3.11	U
95	30.26	382.2				0.871	1.44	U
96	30.51	429.8				0.0942	0.121	U
98	30.68	395.3				0.133	0.139	U
99	31.04	429.8				0.863	0.863	U
100	31.27	395.3				1.27	1.27	U
101	31.54	429.8				2.17	2.17	U
102	31.72	395.3				1.50	11.1	U
103	31.96	395.3				0.640	0.768	U
104	32.25	395.3				0.374	0.438	U
105	32.58	429.8				0.460	0.786	U
106	33.68	395.3				0.538	2.34	U
107	33.95	395.3				0.213	0.768	U
108	34.76	429.8				0.324	0.438	U
109	34.98	429.8				1.16	7.68	U
110	35.50	429.8				1.84	7.86	U
111	36.64	395.3				0.231	0.231	U
112	38.10	429.8				0.368	1.01	U
113	38.59	464.2				0.438	0.903	U
114	39.49	464.2				0.154	0.340	U
115	40.84	429.8				0.969	3.29	U
116	41.67	429.8				0.838	0.838	U
117	46.57	464.2				0.384	1.24	U
118	52.30	498.6				0.126	0.126	U

Total Concentration = 155 ng/L

91.0

322

J

Total Nanomoles = 0.679

Average Molecular Weight = 228.0

Number of Calibrated Peaks Found = 3

Internal Standard Retention Time = 45.09 minutes

Internal Standard Peak Area = 191196.2

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-090922-BT001  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 13:29:14  
 Lab Sample ID: AM17220DL1  
 LRF ID: 09090269-06DL1  
 Lab File ID: GC24-175-19

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001		2	-	-
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2934	2-2; 26	83.931	85.773
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.11	2:0	014		35	-	-
10	15.17	3:3	019	0.3364	26-2	12.295	10.886
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.40	3:2	024 027	0.3637	236; 26-3	3.774	3.342
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.70	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.54	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046		23-26	-	-
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.86	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.40	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.51	5:3	089		234-26	-	-
53	22.66	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.13	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.23	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.44	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.61	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.29	6:3	154		245-246	-	-
63	24.38	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.81	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.88	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.12	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.25	6:2	153		245-245	-	-
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.02	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162		234-234; 235-345	-	-
90	28.79	7:3	183		2346-245	-	-
91	29.05	6:1	167		245-345	-	-
92	29.37	7:3	185		23456-25	-	-
93	29.72	7:3	174 181		2345-236; 23456-24	-	-
94	29.98	7:3	177		2356-234	-	-
95	30.26	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.51	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.72	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 155 ng/L

Total Nanomoles = 0.679

Average Molecular Weight = 228.0

Number of Calibrated Peaks Found = 3

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: Water  
Sample Wt(Dry)/Vol: 1010 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 1.0 uL  
Analytical SOP Reference: SOP NE207\_03  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

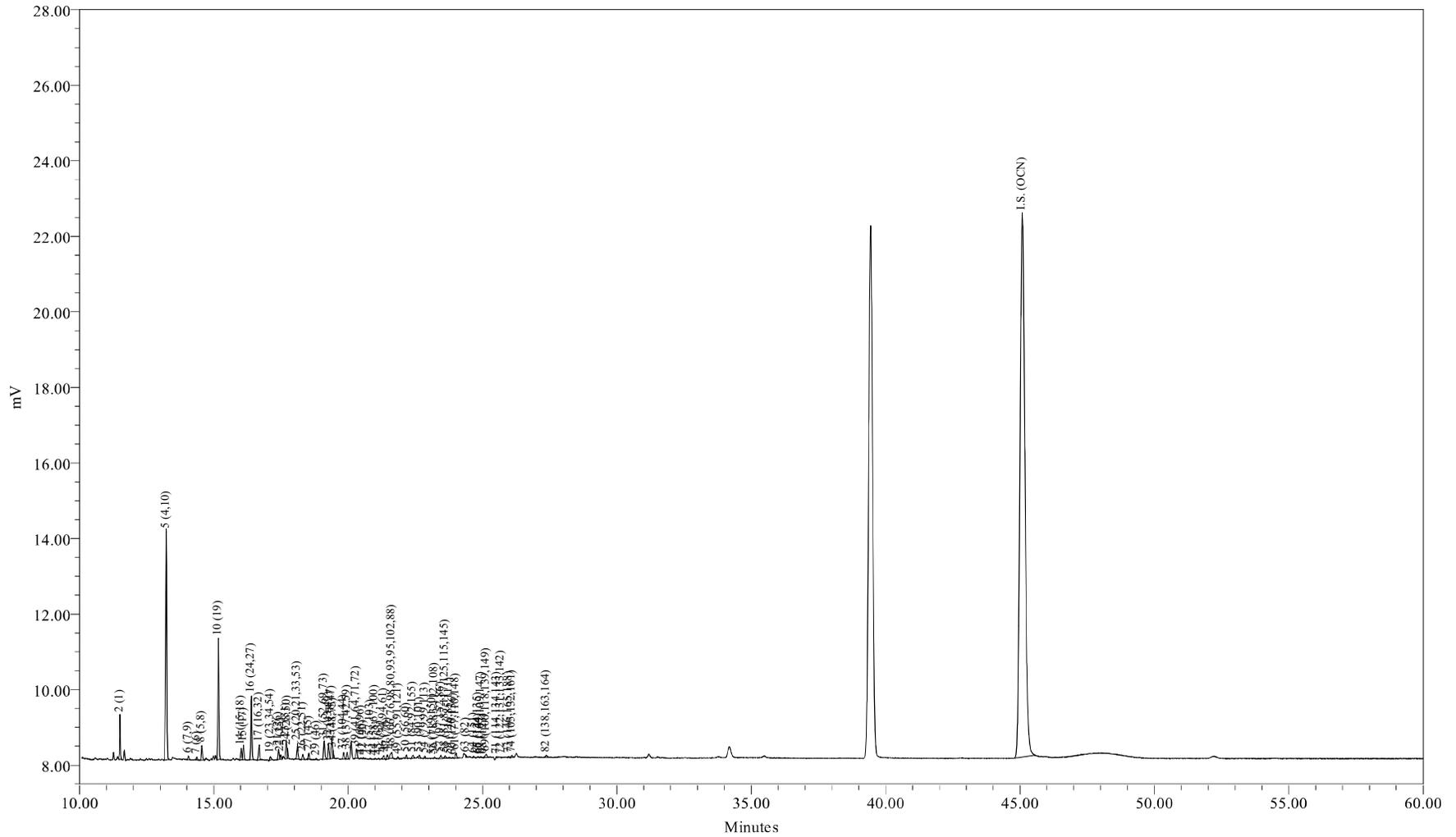
SDG No: 09090269  
LRF ID: 09090269-07  
Client ID: WFF-WAFO-090922-BT001  
Lab Sample ID: AM17221  
Lab File ID: GC24-175-20  
Date Received: 09/22/2009  
Date Extracted: 09/22/2009  
Date/Time Analyzed: 09/23/2009 14:34  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 185735

Percent Recovery (50 - 150 %): 108

SAMPLE TOTAL PCB CONCENTRATION: 239 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM17221  
Sample ID: WFF-WAFO-090922-BT001  
Date Acquired: 09/23/2009 14:34:46 EDT

Sample Amount (L) : 1.0100  
Dilution: 5  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-175-20

Sample Name: AM17221

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090922-BT001  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 14:34:46  
 Lab Sample ID: AM17221  
 LRF ID: 09090269-07  
 Lab File ID: GC24-175-20

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 239 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	20.20	23.76
Di	59.50	59.19
Tri	16.50	14.22
Tetra	2.97	2.27
Penta	0.76	0.52
Hexa	0.06	0.04
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	48.3015	95.2	95.8
A1242	23+24/31+28	2.1301	4.20	4.22
A1254SED	61/100	0.3248	0.640	
A1254BIO	69+75+82/149+153+138			0
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.80

Meta + Para Cl / biphenyl Residue = 0.16

Total Cl / biphenyl Residue = 1.97

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090922-BT001  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 14:34:46  
 Lab Sample ID: AM17221  
 LRF ID: 09090269-07  
 Lab File ID: GC24-175-20

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7	2195	48.3	256	0.529	2.19	
3	12.52	188.7				6.63	1000	U
4	12.63	188.7				0.355	1.28	U
5	13.23	223.1	2360	139	625	1.34	6.21	B
6	14.05	223.1	249	0.266	1.19	0.0721	0.219	
7	14.37	223.1	170	0.472	2.11	0.158	0.347	
8	14.55	223.1	1086	1.72	7.71	0.542	2.56	J
9	15.11	223.1				0.294	25.0	U
10	15.17	257.5	1143	20.7	80.4	0.604	1.02	
11	15.64	257.5				0.198	25.0	U
12	15.72	223.1				0.306	25.0	U
13	15.92	223.1				0.0559	0.0975	U
14	16.02	249.0	800	1.63	6.54	0.128	0.676	
15	16.10	257.5	1049	2.82	10.9	0.143	0.676	
16	16.40	257.5	574	6.26	24.3	0.374	0.475	
17	16.68	257.5	1147	2.11	8.18	0.166	0.713	
19	17.10	267.9	234	0.373	1.39	0.128	25.0	J
20	17.29	257.5				0.0108	0.0194	U
21	17.41	257.5	752	1.14	4.41	0.0606	0.132	B
22	17.49	257.5	398	0.428	1.66	0.0426	0.0585	B
23	17.69	257.5	1532	1.76	6.82	0.487	0.753	
24	17.74	257.5	676	0.374	1.45	0.211	0.964	J
25	18.11	259.5	1204	1.59	6.12	0.105	0.726	
26	18.31	258.7	425	0.534	2.07	0.120	0.530	
27	18.53	292.0	456	0.527	1.81	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.81	292.0	87	0.133	0.456	0.127	0.127	
30	18.96	257.5				0.120	25.0	U
31	19.10	292.0	1478	2.42	8.27	0.204	0.872	
32	19.27	292.0	1211	1.05	3.59	0.0978	0.420	
33	19.39	292.0	1798	1.07	3.66	0.0656	0.183	
34	19.43	292.0	309	0.247	0.846	0.0579	0.183	
35	19.59	292.0				0.205	25.0	U
36	19.69	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.83	292.0	523			0.160	0.786	U
38	19.96	272.4	543	0.695	2.55	0.115	0.475	J
39	20.31	292.0	820	0.540	1.85	0.121	0.749	U
41	20.47	326.4	56			0.115	25.0	U
42	20.55	292.0	80			0.0968	0.172	U
43	20.82	298.9	65			0.152	25.0	U
44	20.99	298.9	41	0.0299	0.100	0.0225	0.0402	JB
45	21.14	292.0	45	0.0361	0.124	0.0299	0.0384	J
46	21.32	292.0	336	0.132	0.452	0.0821	0.347	J
47	21.45	292.0	352			0.164	0.621	U
48	21.62	293.5	747	0.414	1.41	0.243	1.32	J
49	21.85	324.7	147	0.159	0.489	0.0376	0.0932	B
50	22.17	292.0	278			0.359	0.640	U
51	22.41	326.4	320	0.517	1.58	0.0888	0.329	B
52	22.51	326.4				0.0384	0.0384	U
53	22.65	326.4	236	0.0882	0.270	0.0691	0.329	J
54	22.85	326.4	186			0.101	0.135	U
55	23.14	326.4	41	0.0183	0.0562	0.00644	0.0102	B
56	23.22	326.4	107	0.111	0.340	0.0647	0.0647	J
57	23.45	326.4	349	0.233	0.712	0.0435	0.102	B
58	23.61	326.4	293	0.204	0.626	0.0841	0.212	J
59	23.76	326.4	132	0.0873	0.268	0.0484	0.128	J
60	23.90	360.9	67	0.0795	0.220	0.0772	0.137	J
61	24.01	326.4	464	0.325	0.995	0.0668	0.389	J
62	24.29	360.9				0.113	25.0	U
63	24.38	326.4	99	0.0378	0.116	0.0201	0.0804	JB
64	24.66	360.9	75			0.0518	0.311	U
65	24.83	350.5	37	0.0209	0.0596	0.0149	0.0530	J
66	24.85	360.9	21			0.0541	0.110	U
67	24.95	336.8	40	0.0355	0.106	0.0348	0.0475	J
68	25.04	326.4	8			0.125	25.0	U
69	25.13	337.5	321			0.0938	0.731	U
70	25.24	360.9				0.0829	25.0	U
71	25.54	347.8	32			0.0348	0.0369	U
72	25.69	336.8	8			0.00638	0.0106	U
73	25.98	360.9	79	0.0434	0.120	0.0320	0.0713	J
74	26.09	347.8	157			0.0721	0.248	U
75	26.25	360.9				0.109	0.538	U
76	26.37	360.9				0.107	25.0	U
77	26.76	360.9				0.0637	0.311	U
78	26.81	395.3				0.0470	0.267	U
79	27.02	360.9				0.0501	0.0501	U
80	27.16	360.9				0.0151	0.0475	U
82	27.38	360.9	206			0.108	0.493	U
83	27.55	360.9				0.0450	0.0457	U
84	27.74	360.9				0.00310	0.00473	U
85	28.07	395.3				0.0677	0.201	U
87	28.36	395.3				0.0156	0.0731	U
88	28.50	395.3				0.102	0.658	U
89	28.62	360.9				0.0199	0.0366	U
90	28.79	395.3				0.0679	0.311	U
91	29.05	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.0225	0.0859	U
93	29.72	394.3				0.102	0.585	U
94	29.98	394.3				0.0936	0.311	U
95	30.26	382.2				0.0871	0.144	U
96	30.51	429.8				0.00942	0.0121	U
98	30.68	395.3				0.0133	0.0139	U
99	31.04	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.54	429.8				0.217	0.217	U
102	31.72	395.3				0.150	1.11	U
103	31.96	395.3				0.0640	0.0768	U
104	32.25	395.3				0.0374	0.0438	U
105	32.58	429.8				0.0460	0.0786	U
106	33.68	395.3				0.0538	0.234	U
107	33.95	395.3				0.0213	0.0768	U
108	34.76	429.8				0.0324	0.0438	U
109	34.98	429.8				0.116	0.768	U
110	35.50	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 239 ng/L

11.2 39.1

Total Nanomoles = 1.077

Average Molecular Weight = 222.0

Number of Calibrated Peaks Found = 58

Internal Standard Retention Time = 45.09 minutes

Internal Standard Peak Area = 185734.9

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090922-BT001  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 14:34:46  
 Lab Sample ID: AM17221  
 LRF ID: 09090269-07  
 Lab File ID: GC24-175-20

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2553	2	20.200	23.762
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2934	2-2; 26	58.307	58.012
6	14.05	2:1	007 009	0.3116	24; 25	0.111	0.111
7	14.37	2:1	006	0.3187	2-3	0.197	0.196
8	14.55	2:1	005 008	0.3227	23; 2-4	0.719	0.716
9	15.11	2:0	014		35	-	-
10	15.17	3:3	019	0.3364	26-2	8.653	7.459
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018	0.3553	4-4; 25-2	0.681	0.607
15	16.10	3:2	017	0.3571	24-2	1.178	1.015
16	16.40	3:2	024 027	0.3637	236; 26-3	2.616	2.255
17	16.68	3:2	016 032	0.3699	23-2; 26-4	0.881	0.759
19	17.10	3:1 4:4	023 034 054	0.3792	235; 35-2; 26-26	0.156	0.129
20	17.29	3:1	029		245	-	-
21	17.41	3:1	026	0.3861	25-3	0.475	0.410
22	17.49	3:1	025	0.3879	24-3	0.179	0.154
23	17.69	3:1	031	0.3923	25-4	0.734	0.633
24	17.74	3:1 4:3	028 050	0.3934	24-4; 246-2	0.156	0.135
25	18.11	3:1 4:3	020 021 033 053	0.4016	23-3; 234; 34-2; 25-26	0.664	0.568
26	18.31	3:1 4:3	022 051	0.4061	23-4; 24-26	0.223	0.192
27	18.53	4:3	045	0.4110	236-2	0.221	0.168
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4172	23-26	0.056	0.042
30	18.96	3:0	039		35-4	-	-
31	19.10	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	1.010	0.768
32	19.27	4:2	043 049	0.4274	235-2; 24-25	0.439	0.334
33	19.39	4:2	038 047	0.4300	345; 24-24	0.447	0.340
34	19.43	4:2	048 075	0.4309	245-2; 246-4	0.103	0.078
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.83	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.96	3:0 4:2	037 042 059	0.4427	34-4; 23-24; 236-3	0.291	0.237
39	20.31	4:2	041 064 071 072	0.4504	234-2; 236-4; 26-34; 25-35	0.226	0.172

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096		24-35; 236-26	-	-
42	20.55	4:2	040		23-23	-	-
43	20.82	4:1 5:3	057 103		235-3; 246-25	-	-
44	20.99	4:1 5:3	058 067 100	0.4655	23-35; 245-3; 246-24	0.013	0.009
45	21.14	4:1	063	0.4688	235-4	0.015	0.011
46	21.32	4:1 5:3	074 094 061	0.4728	245-4; 235-26; 2345	0.055	0.042
47	21.45	4:1	070		25-34	-	-
48	21.62	4:1 5:3	066 076 098 080 093 095 102 088	0.4795	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.173	0.131
49	21.85	4:1 5:3	055 091 121	0.4846	234-3; 236-24; 246-35	0.066	0.045
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.41	5:3 6:4	084 092 155	0.4970	236-23; 235-25; 246-246	0.216	0.147
52	22.51	5:3	089		234-26	-	-
53	22.65	5:2	090 101	0.5023	235-24; 245-25	0.037	0.025
54	22.85	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.14	5:2 6:4	119 150	0.5132	246-34; 236-246	0.008	0.005
56	23.22	5:2	078 083 112 108	0.5150	345-3; 235-23; 2356-3; 2346-3	0.046	0.032
57	23.45	5:2 6:4	097 152 086	0.5201	245-23; 2356-26; 2345-2	0.097	0.066
58	23.61	5:2	081 087 117 125 115 145	0.5236	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.085	0.058
59	23.76	5:2	116 085 111	0.5269	23456; 234-24; 235-35	0.037	0.025
60	23.90	6:4	120 136	0.5301	245-35; 236-236	0.033	0.020
61	24.01	5:2	077 110 148	0.5325	34-34; 236-34; 235-246	0.136	0.092
62	24.29	6:3	154		245-246	-	-
63	24.38	5:2	082	0.5407	234-23	0.016	0.011
64	24.66	6:3	151		2356-25	-	-
65	24.83	5:1 6:3	124 135	0.5507	345-25; 235-236	0.009	0.006
66	24.85	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147	0.5533	234-35; 235-34; 2356-24	0.015	0.010
68	25.04	5:1	123		345-24	-	-
69	25.13	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.54	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.69	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	146 165 188	0.5762	235-245; 2356-35; 2356-246	0.018	0.011
74	26.09	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.25	6:2	153		245-245	-	-
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.02	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162		234-234; 235-345	-	-
90	28.79	7:3	183		2346-245	-	-
91	29.05	6:1	167		245-345	-	-
92	29.37	7:3	185		23456-25	-	-
93	29.72	7:3	174 181		2345-236; 23456-24	-	-
94	29.98	7:3	177		2356-234	-	-
95	30.26	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.51	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.72	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 239 ng/L

Total Nanomoles = 1.077

Average Molecular Weight = 222.0

Number of Calibrated Peaks Found = 58

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

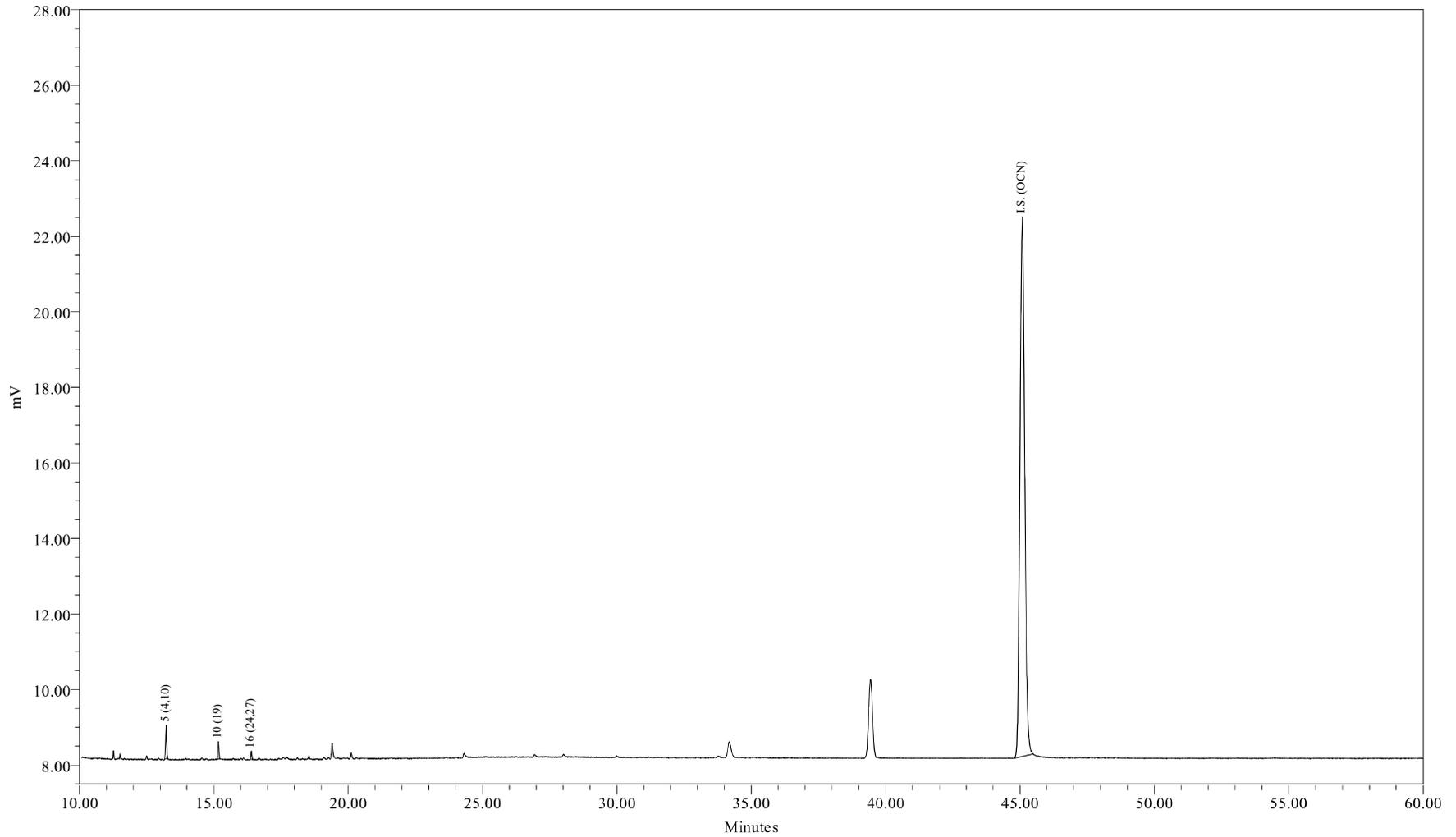
<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Sample Name: AM17221DL1  
Sample ID: WFF-WAFO-090922-BT001  
Date Acquired: 09/23/2009 15:40:17 EDT

Sample Amount (L) : 1.0100  
Dilution: 50  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-175-21

Sample Name: AM17221DL1

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090922-BT001  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 15:40:17  
 Lab Sample ID: AM17221DL1  
 LRF ID: 09090269-07DL1  
 Lab File ID: GC24-175-21

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 166 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	83.80	85.66
Tri	16.20	14.34
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.11

Meta + Para Cl / biphenyl Residue = 0.03

Total Cl / biphenyl Residue = 2.14

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090922-BT001  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 15:40:17  
 Lab Sample ID: AM17221DL1  
 LRF ID: 09090269-07DL1  
 Lab File ID: GC24-175-21

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				5.29	21.9	U
3	12.52	188.7				66.3	10000	U
4	12.63	188.7				3.55	12.8	U
5	13.23	223.1	2360	139	625	1.34	6.21	B
6	14.06	223.1				0.721	2.19	U
7	14.37	223.1				1.58	3.47	U
8	14.55	223.1				5.42	25.6	U
9	15.11	223.1				2.94	250	U
10	15.17	257.5	1143	20.7	80.4	0.604	1.02	
11	15.64	257.5				1.98	250	U
12	15.72	223.1				3.06	250	U
13	15.92	223.1				0.559	0.975	U
14	16.02	249.0				1.28	6.76	U
15	16.11	257.5				1.43	6.76	U
16	16.40	257.5	574	6.26	24.3	0.374	0.475	
17	16.66	257.5				1.66	7.13	U
19	17.11	267.9				1.28	250	U
20	17.29	257.5				0.108	0.194	U
21	17.42	257.5				0.606	1.32	U
22	17.50	257.5				0.426	0.585	U
23	17.70	257.5				4.87	7.53	U
24	17.75	257.5				2.11	9.64	U
25	18.09	259.5				1.05	7.26	U
26	18.32	258.7				1.20	5.30	U
27	18.54	292.0				0.367	1.63	U
28	18.69	257.5				3.75	250	U
29	18.81	292.0				1.27	1.27	U
30	18.96	257.5				1.20	250	U
31	19.11	292.0				2.04	8.72	U
32	19.28	292.0				0.978	4.20	U
33	19.39	292.0				0.656	1.83	U
34	19.46	292.0				0.579	1.83	U
35	19.59	292.0				2.05	250	U
36	19.69	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				1.60	7.86	U
38	19.97	272.4				1.15	4.75	U
39	20.32	292.0				1.21	7.49	U
41	20.47	326.4				1.15	250	U
42	20.58	292.0				0.968	1.72	U
43	20.83	298.9				1.52	250	U
44	21.01	298.9				0.225	0.402	U
45	21.16	292.0				0.299	0.384	U
46	21.33	292.0				0.821	3.47	U
47	21.46	292.0				1.64	6.21	U
48	21.57	293.5				2.43	13.2	U
49	21.86	324.7				0.376	0.932	U
50	22.17	292.0				3.59	6.40	U
51	22.40	326.4				0.888	3.29	U
52	22.51	326.4				0.384	0.384	U
53	22.66	326.4				0.691	3.29	U
54	22.86	326.4				1.01	1.35	U
55	23.13	326.4				0.0644	0.102	U
56	23.23	326.4				0.647	0.647	U
57	23.44	326.4				0.435	1.02	U
58	23.61	326.4				0.841	2.12	U
59	23.77	326.4				0.484	1.28	U
60	23.88	360.9				0.772	1.37	U
61	24.02	326.4				0.668	3.89	U
62	24.29	360.9				1.13	250	U
63	24.38	326.4				0.201	0.804	U
64	24.68	360.9				0.518	3.11	U
65	24.81	350.5				0.149	0.530	U
66	24.88	360.9				0.541	1.10	U
67	24.95	336.8				0.348	0.475	U
68	25.04	326.4				1.25	250	U
69	25.12	337.5				0.938	7.31	U
70	25.24	360.9				0.829	250	U
71	25.51	347.8				0.348	0.369	U
72	25.71	336.8				0.0638	0.106	U
73	25.98	360.9				0.320	0.713	U
74	26.10	347.8				0.721	2.48	U
75	26.25	360.9				1.09	5.38	U
76	26.37	360.9				1.07	250	U
77	26.76	360.9				0.637	3.11	U
78	26.81	395.3				0.470	2.67	U
79	27.02	360.9				0.501	0.501	U
80	27.16	360.9				0.151	0.475	U
82	27.38	360.9				1.08	4.93	U
83	27.55	360.9				0.450	0.457	U
84	27.74	360.9				0.0310	0.0473	U
85	28.07	395.3				0.677	2.01	U
87	28.36	395.3				0.156	0.731	U
88	28.50	395.3				1.02	6.58	U
89	28.62	360.9				0.199	0.366	U
90	28.79	395.3				0.679	3.11	U
91	29.05	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.225	0.859	U
93	29.72	394.3				1.02	5.85	U
94	29.98	394.3				0.936	3.11	U
95	30.26	382.2				0.871	1.44	U
96	30.51	429.8				0.0942	0.121	U
98	30.68	395.3				0.133	0.139	U
99	31.04	429.8				0.863	0.863	U
100	31.27	395.3				1.27	1.27	U
101	31.54	429.8				2.17	2.17	U
102	31.72	395.3				1.50	11.1	U
103	31.96	395.3				0.640	0.768	U
104	32.25	395.3				0.374	0.438	U
105	32.58	429.8				0.460	0.786	U
106	33.68	395.3				0.538	2.34	U
107	33.95	395.3				0.213	0.768	U
108	34.76	429.8				0.324	0.438	U
109	34.98	429.8				1.16	7.68	U
110	35.50	429.8				1.84	7.86	U
111	36.64	395.3				0.231	0.231	U
112	38.10	429.8				0.368	1.01	U
113	38.59	464.2				0.438	0.903	U
114	39.49	464.2				0.154	0.340	U
115	40.84	429.8				0.969	3.29	U
116	41.67	429.8				0.838	0.838	U
117	46.57	464.2				0.384	1.24	U
118	52.30	498.6				0.126	0.126	U

Total Concentration = 166 ng/L 91.0      322      J

Total Nanomoles = 0.730

Average Molecular Weight = 228.0

Number of Calibrated Peaks Found = 3

Internal Standard Retention Time = 45.08 minutes

Internal Standard Peak Area = 178372.8

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-090922-BT001  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 15:40:17  
 Lab Sample ID: AM17221DL1  
 LRF ID: 09090269-07DL1  
 Lab File ID: GC24-175-21

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001		2	-	-
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2935	2-2; 26	83.803	85.656
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.11	2:0	014		35	-	-
10	15.17	3:3	019	0.3365	26-2	12.437	11.014
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.40	3:2	024 027	0.3638	236; 26-3	3.760	3.330
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.70	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.54	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046		23-26	-	-
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.86	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.40	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.51	5:3	089		234-26	-	-
53	22.66	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.13	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.23	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.44	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.61	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.29	6:3	154		245-246	-	-
63	24.38	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.81	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.88	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.12	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.25	6:2	153		245-245	-	-
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.02	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162		234-234; 235-345	-	-
90	28.79	7:3	183		2346-245	-	-
91	29.05	6:1	167		245-345	-	-
92	29.37	7:3	185		23456-25	-	-
93	29.72	7:3	174 181		2345-236; 23456-24	-	-
94	29.98	7:3	177		2356-234	-	-
95	30.26	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.51	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.72	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 166 ng/L

Total Nanomoles = 0.730

Average Molecular Weight = 228.0

Number of Calibrated Peaks Found = 3

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

# Sample GC Injection Log (GC-16)



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
Phone: (518) 346-4592 Fax: (518) 381-6055  
www.nealab.com

Sample Set Name: GC16\_CC\_082309  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 08/23/2009 02:05:02 EDT  
Current Date: 09/02/2009  
Report Name: CSGB\_SSReport

### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090823B01	1.000	1.00	1	08/23/2009 02:12:16 EDT
2	HEXANE BLANK	Unknown	090823B02	1.000	1.00	1	08/23/2009 03:19:41 EDT
3	ICAL 6.25 ng/mL	Standard	ICAL0823A	1.000	1.00	1	08/23/2009 04:27:16 EDT
4	ICAL 12.5 ng/mL	Standard	ICAL0823B	1.000	1.00	1	08/23/2009 05:34:46 EDT
5	ICAL 125 ng/mL	Standard	ICAL0823C	1.000	1.00	1	08/23/2009 06:42:13 EDT
6	ICAL 314 ng/mL	Standard	ICAL0823D	1.000	1.00	1	08/23/2009 07:49:33 EDT
7	ICAL 627 ng/mL	Standard	ICAL0823E	1.000	1.00	1	08/23/2009 08:56:52 EDT
8	HEXANE BLANK	Unknown	090823B03	1.000	1.00	1	08/23/2009 10:04:12 EDT
9	SUP CONG STD 200/5 ng/mL	Standard	SC0823A	1.000	1.00	1	08/23/2009 11:11:32 EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0823A	1.000	1.00	1	08/23/2009 12:18:49 EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0823B	1.000	1.00	1	08/23/2009 13:26:05 EDT
12	Surr TCMX/DCBP 5/50 ppb	Standard	TD0823A	1.000	1.00	1	08/23/2009 14:33:23 EDT
13	HEXANE BLANK	Unknown	090823B04	1.000	1.00	1	08/23/2009 15:40:42 EDT
14	CCC Std 122 ng/mL	Unknown	CCCS0823A	1.000	1.00	1	08/23/2009 16:48:04 EDT



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Sample Set Name: GC16\_092209c  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 09/22/2009 09:30:57  
Date Printed: 09/24/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090922B02	1.000	1.00	1	09/22/2009 09:30:57
2	CCC Std 122 ng/mL	Unknown	CCCS0922A	1.000	1.00	1	09/22/2009 10:38:25
3	METHOD BLANK	Unknown	AM17150B	1.000	5.00	5	09/22/2009 11:45:42
4	LAB CONTROL SPIKE	Unknown	AM17150L	1.000	5.00	5	09/22/2009 12:53:07
5	ZZZZZ	Unknown	ZZZZZ	0.940	5.00	5	09/22/2009 14:00:33
6	ZZZZZ	Unknown	ZZZZZ	0.940	50.00	5	09/22/2009 15:08:00
7	ZZZZZ	Unknown	ZZZZZ	1.060	5.00	5	09/22/2009 16:15:25
8	ZZZZZ	Unknown	ZZZZZ	1.060	50.00	5	09/22/2009 17:22:46
9	CCC Std 122 ng/mL	Unknown	CCCS0922B	1.000	1.00	1	09/22/2009 18:30:15
10	ZZZZZ	Unknown	ZZZZZ	0.860	5.00	5	09/22/2009 23:17:10
11	CCC Std 122 ng/mL	Unknown	CCCS0922C	1.000	1.00	1	09/23/2009 01:32:15
12	METHOD BLANK	Unknown	AM17225B	8.000	5.00	5	09/23/2009 02:39:48
13	LAB CONTROL SPIKE	Unknown	AM17225L	8.000	5.00	5	09/23/2009 03:47:13
14	ZZZZZ	Unknown	ZZZZZ	8.600	5.00	5	09/23/2009 06:02:04
15	CCC Std 122 ng/mL	Unknown	CCCS0922D	1.000	1.00	1	09/23/2009 08:17:00



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Project Name: GC16\_May\_2009  
Sample Set Name: GC16\_092209c  
Date Printed: 09/24/2009

**Operating Conditions Gas Chromatography**

User Name: Keith Friedman Injection Method: Splitless  
Sample Size: 0.5 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: Agilent DB-1; 30 meter; 0.25 micron phase thickness  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 28.8 psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector 1 GC16 Detector Type: ECD Detector Range: 3

# Sample GC Injection Log (GC-24)



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Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Set Name: GC24\_CC\_090509  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 9/5/2009 2:45:04 AM EDT  
Current Date: 9/18/2009  
Report Name: CSGB\_SSReport

### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090905B01	1.000	1.00	1	9/5/2009 2:50:31 AM EDT
2	HEXANE BLANK	Unknown	090905B02	1.000	1.00	1	9/5/2009 3:56:00 AM EDT
3	ICAL 6.25 ng/mL	Standard	ICAL0905A	1.000	1.00	1	9/5/2009 5:01:29 AM EDT
4	ICAL 12.5 ng/mL	Standard	ICAL0905B	1.000	1.00	1	9/5/2009 6:06:56 AM EDT
5	ICAL 125 ng/mL	Standard	ICAL0905C	1.000	1.00	1	9/5/2009 7:12:23 AM EDT
6	ICAL 314 ng/mL	Standard	ICAL0905D	1.000	1.00	1	9/5/2009 8:17:51 AM EDT
7	ICAL 627 ng/mL	Standard	ICAL0905E	1.000	1.00	1	9/5/2009 9:23:21 AM EDT
8	HEXANE BLANK	Unknown	090905B03	1.000	1.00	1	9/5/2009 10:28:50 AM EDT
9	SUP CONG STD 200/5 ng/mL	Standard	SC0905A	1.000	1.00	1	9/5/2009 11:34:20 AM EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0905A	1.000	1.00	1	9/5/2009 12:40:05 PM EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0905B	1.000	1.00	1	9/5/2009 1:45:34 PM EDT
12	Surr TCMX/DCBP 5/50 ppb	Standard	TD0905A	1.000	1.00	1	9/5/2009 2:51:02 PM EDT
13	HEXANE BLANK	Unknown	090905B04	1.000	1.00	1	9/5/2009 3:56:30 PM EDT
14	CCC Std 122 ng/mL	Unknown	CCCS0905A	1.000	1.00	1	9/5/2009 5:01:55 PM EDT



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, New York 12308  
Phone:(518) 346-4592 Fax:(518) 381-6055  
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Sample Set Name: GC24\_092209c  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 09/22/2009 22:11:40  
Date Printed: 09/24/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090922B04	1.000	1.00	1	09/22/2009 22:11:40
2	CCC Std 122 ng/mL	Unknown	CCCS0922C	1.000	1.00	1	09/23/2009 09:07:10
3	WFF-WAFA-090922-BT001	Unknown	AM17220	1.060	5.00	5	09/23/2009 12:23:41
4	WFF-WAFA-090922-BT001	Unknown	AM17220DL1	1.060	50.00	5	09/23/2009 13:29:14
5	WFF-WAFO-090922-BT001	Unknown	AM17221	1.010	5.00	5	09/23/2009 14:34:46
6	WFF-WAFO-090922-BT001	Unknown	AM17221DL1	1.010	50.00	5	09/23/2009 15:40:17
7	CCC Std 122 ng/mL	Unknown	CCCS0922D	1.000	1.00	1	09/23/2009 16:45:50
8	ZZZZZ	Unknown	ZZZZZ	0.990	5.00	5	09/23/2009 20:02:34
9	ZZZZZ	Unknown	ZZZZZ	0.990	50.00	5	09/23/2009 21:08:23
10	CCC Std 122 ng/mL	Unknown	CCCS0922E	1.000	1.00	1	09/23/2009 22:13:56



Project Name: GC24\_Mar\_2009  
Sample Set Name: GC24\_092209c  
Date Printed: 09/24/2009

**Operating Conditions Gas Chromatography**

User Name: Keith Friedman Injection Method: Splitless  
Sample Size: 1.0 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 27.0psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector Type: ECD Detector Range: 4

# Standards Summary Tables (GC-16)



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Sample Set Name: GC16\_CC\_082309  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 08/23/2009 02:05:02 EDT  
Current Date: 09/02/2009  
Report Name: CSGB\_SumRpt\_OCNArea

**ICAL OCN Area Summary Report**

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0823A	ICAL 6.25 ng/mL	08/23/2009 04:27:16 EDT	168429
2	ICAL0823B	ICAL 12.5 ng/mL	08/23/2009 05:34:46 EDT	159698
3	ICAL0823C	ICAL 125 ng/mL	08/23/2009 06:42:13 EDT	170177
4	ICAL0823D	ICAL 314 ng/mL	08/23/2009 07:49:33 EDT	173183
5	ICAL0823E	ICAL 627 ng/mL	08/23/2009 08:56:52 EDT	165807
Mean				167459



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System Name: Instrument\_16 Date Calibrated: 08/24/2009 13:26:35 EDT,  
 Sample Set Name: GC16\_CC\_082309 Method Report: CSGB CCSum by RF  
 Sample Set Date: 08/23/2009 02:05:02 EDT User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309

**Calibration Component Summary Table  
 Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)
1	ICAL0823A	0.029632		0.015881	0.060102	0.346398	0.261754	0.101880			
2	ICAL0823B	0.032835		0.016975	0.058221	0.423230	0.295591	0.131906		0.384454	
3	ICAL0823C	0.029210		0.016147	0.068134	0.479796	0.226028	0.122440		0.396596	
4	ICAL0823D	0.028105		0.014452	0.057309	0.453855	0.218794	0.114890		0.381476	
5	ICAL0823E				0.061254					0.341546	
6	SC0823A		0.002899						0.176869		0.665040
Mean		0.030	0.003	0.016	0.061	0.426	0.251	0.118	0.177	0.376	0.665
Std. Dev.		0.002		0.001	0.004	0.058	0.035	0.013		0.024	
% RSD		6.78		6.62	7.01	13.57	14.14	10.77		6.35	

**Calibration Component Summary Table  
 Component Summary For RF**

	12 (11)	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)
1			0.383997	0.158294	0.568224	0.328924			0.350888	0.705294	0.613919
2		0.245194	0.382202	0.186421	0.541246	0.357916		0.619883	0.401916	0.647251	0.552787
3		0.277784	0.395495	0.194169	0.535960	0.333910		0.712928	0.453098	0.728734	0.533093
4		0.287784	0.375045	0.181353	0.569882	0.315497		0.668511	0.424895	0.620919	0.512021
5					0.556099						
6	0.064897						0.396913				
Mean	0.065	0.270	0.384	0.180	0.554	0.334	0.397	0.667	0.408	0.676	0.553
Std. Dev.		0.022	0.008	0.015	0.015	0.018		0.047	0.043	0.050	0.044
% RSD		8.24	2.21	8.57	2.78	5.30		6.98	10.61	7.40	7.94

**Calibration Component Summary Table  
 Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
1	0.586455	0.496963	0.368009	0.484763		0.492024		0.334493	0.619104	1.370859
2	0.612478	0.499220	0.492274	0.501787		0.526016		0.386396	0.773561	1.209542
3	0.596122	0.455367	0.413615	0.501694		0.490549		0.378059	0.733789	1.017967
4	0.560491	0.442032	0.407109	0.507222		0.454125		0.355374	0.694636	0.951170
5										
6					0.301528		0.298422			
Mean	0.589	0.473	0.420	0.499	0.302	0.491	0.298	0.364	0.705	1.137

**Calibration Component Summary Table  
Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
Std. Dev.	0.022	0.029	0.052	0.010		0.029		0.023	0.066	0.190
% RSD	3.70	6.14	12.39	1.95		5.98		6.44	9.34	16.73

**Calibration Component Summary Table  
Component Summary For RF**

	34 (48,75)	35 (62,65)	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)
1	0.835028			0.566170	0.458944	0.728777		0.509631		
2	0.797278			0.599105	0.462088	0.768393		0.508090		0.707261
3	0.783002			0.581960	0.467121	0.732026		0.605440		0.717802
4	0.704106			0.536620	0.450655	0.692542		0.598785		0.793915
5										
6		0.787266	0.281286				0.443464		0.605790	
Mean	0.780	0.787	0.281	0.571	0.460	0.730	0.443	0.555	0.606	0.740
Std. Dev.	0.055			0.027	0.007	0.031		0.054		0.047
% RSD	7.06			4.65	1.50	4.24		9.71		6.39

**Calibration Component Summary Table  
Component Summary For RF**

	45 (63)	46 (74,94,61)	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)
1	0.932380	0.937655	0.861708		0.604556	0.604177	0.851587	0.295758
2	0.798336	1.002220	0.838909		0.569632	0.582925	0.882795	0.314144
3	0.876852	1.029904	0.850054		0.569828	0.700596	0.832386	0.341422
4	0.812281	0.989533	0.799532		0.534135	0.671497	0.800105	0.319375
5								
6								
Mean	0.855	0.990	0.838		0.570	0.640	0.842	0.318
Std. Dev.	0.062	0.039	0.027		0.029	0.055	0.035	0.019
% RSD	7.24	3.90	3.22		5.05	8.66	4.12	5.92

**Calibration Component Summary Table  
Component Summary For RF**

	53 (90,101)	54 (79,99,113)	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)
1	0.612615	1.074533			0.788377		0.747611
2	0.644667	0.951802	1.818614	0.593047	0.885705	0.822042	0.930743
3	0.738803	1.140390	2.131712	0.724203	1.058072	0.804478	0.975828
4	0.681254	1.083548	1.826349	0.680132	0.947302	0.741962	0.940917
5							
6							
Mean	0.669	1.063	1.926	0.666	0.920	0.769	0.899
Std. Dev.	0.054	0.079	0.179	0.067	0.113	0.054	0.103
% RSD	8.09	7.47	9.27	10.02	12.28	7.01	11.42

**Calibration Component Summary Table  
Component Summary For RF**

	60 (120,136)	61 (77,110,148)	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)
1	0.669671	0.641252		1.016927	0.825962	1.454327	0.458432		
2	0.745420	0.630980		1.134854	0.818899	1.487540	0.515840	0.690004	
3	0.800029	0.734106		1.051477	0.815021	1.406136	0.515858	0.711530	
4	0.757777	0.683526		0.900550	0.759250	1.244419	0.500279	0.770566	
5									
6			0.711303						0.769564
Mean	0.743	0.672	0.711	1.026	0.805	1.398	0.498	0.724	0.770
Std. Dev.	0.054	0.047		0.097	0.031	0.108	0.027	0.042	
% RSD	7.31	6.98		9.47	3.81	7.71	5.45	5.76	

**Calibration Component Summary Table  
Component Summary For RF**

	69 (106,118,139,149)	70 (140)	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)
1	0.917208		1.106105		0.926113	1.123619	1.062408
2	0.884858		1.022079	1.909577	0.909918	1.108849	1.137977
3	0.914679		1.117389	2.188855	1.090203	1.153027	1.126951
4	0.840525		0.947250	2.009293	0.939225	1.082338	1.031638
5							
6		0.813822					
Mean	0.889	0.814	1.048	2.036	0.966	1.117	1.090
Std. Dev.	0.036		0.080	0.142	0.083	0.029	0.051
% RSD	4.01		7.59	6.95	8.63	2.64	4.69

**Calibration Component Summary Table  
Component Summary For RF**

	76 (127,168,184)	77 (141)	78 (179)	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)
1		0.656338	0.726963		1.894839	1.246194	1.557575		0.475544
2		0.660579	0.870319	0.881047	1.943213	0.892152	1.451698	6.007449	0.532805
3		0.720416	0.910090	0.852217	2.019416	1.010861	1.358386	7.182843	0.574829
4		0.645898	0.789843	0.835262	1.732219	0.949063	1.188130	7.071409	0.533033
5									
6	0.662615								
Mean	0.663	0.671	0.824	0.856	1.897	1.025	1.389	6.754	0.529
Std. Dev.		0.034	0.082	0.023	0.121	0.156	0.157	0.649	0.041
% RSD		5.02	9.94	2.70	6.40	15.18	11.28	9.61	7.71

**Calibration Component Summary Table  
Component Summary For RF**

	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
1		1.073924		0.818987		1.509153	1.045167	0.916464	0.647711	7.382299
2	0.581956	1.068903	1.389781	0.763510	1.558518	1.367680	0.961705	0.744351	0.885260	6.985274
3	0.734180	0.986819	1.772792	0.981578	1.865307	1.428605	0.953185	0.853863	0.909689	6.297338
4	0.651759	0.935849	1.554016	0.902713	1.782484	1.314779	0.908188	0.801864	0.866166	6.033590

**Calibration Component Summary Table  
Component Summary For RF**

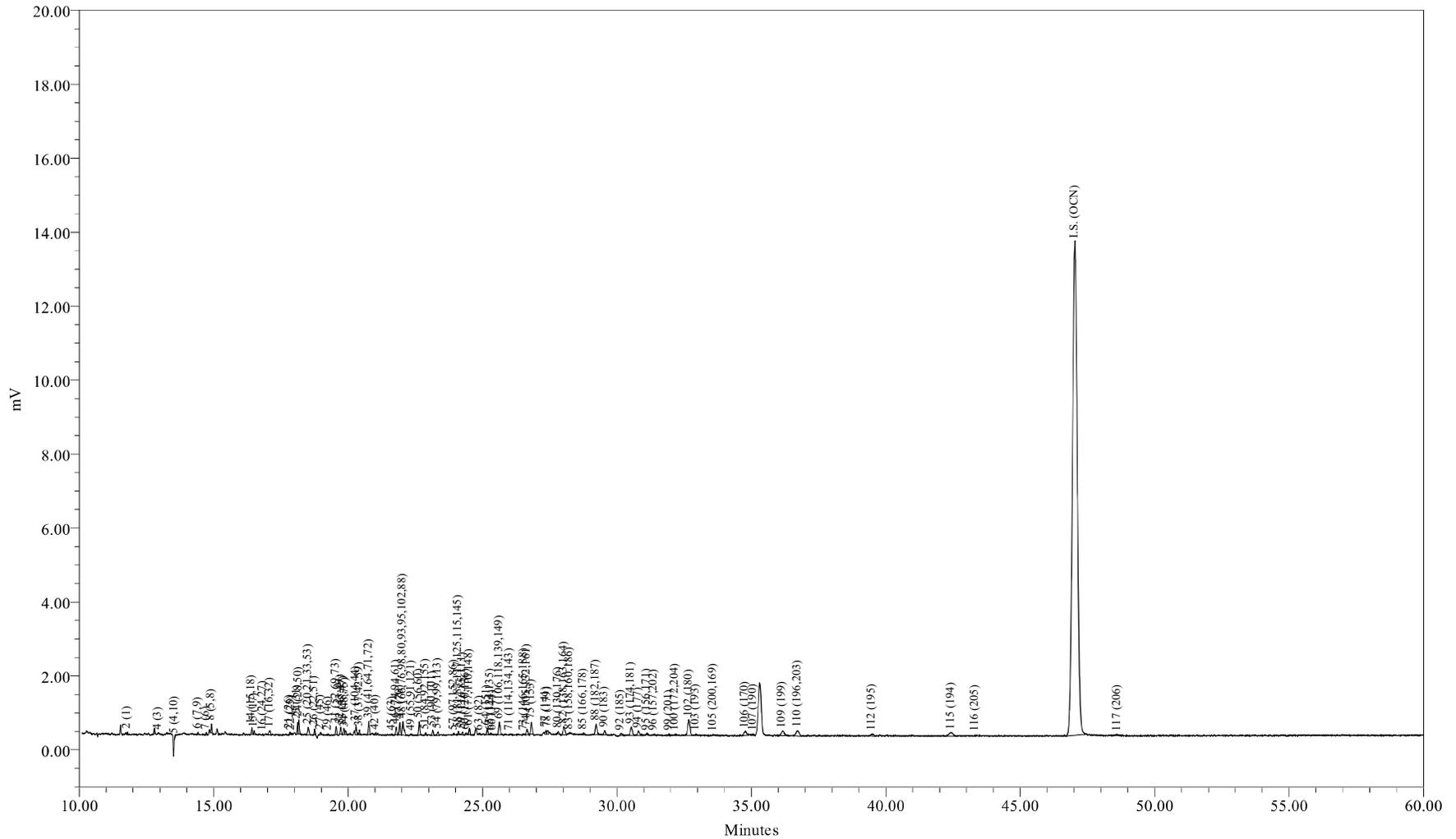
	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
5										
6										
Mean	0.656	1.016	1.572	0.867	1.735	1.405	0.967	0.829	0.827	6.675
Std. Dev.	0.076	0.067	0.192	0.096	0.159	0.084	0.057	0.073	0.121	0.619
% RSD	11.62	6.58	12.22	11.03	9.15	5.95	5.91	8.85	14.63	9.28

**Calibration Component Summary Table  
Component Summary For RF**

	98 (173)	99 (201)	100 (172,204)	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)
1		0.895254	0.919050		1.166489	0.888579		0.751066	1.746600	1.308494
2	1.489567	0.853033	0.874241	0.880843	1.181870	0.882562	0.882789	0.985890	1.717970	1.276878
3	1.476009	0.856582	0.819298	0.854574	1.088211	0.908205	0.926962	0.903351	1.620384	1.358495
4	1.218267	0.801005	0.785456	0.777560	1.036246	0.855976	0.899561	0.903833	1.580043	1.340224
5										
6										
Mean	1.395	0.851	0.850	0.838	1.118	0.884	0.903	0.886	1.666	1.321
Std. Dev.	0.153	0.039	0.059	0.054	0.068	0.022	0.022	0.098	0.079	0.036
% RSD	10.96	4.54	6.95	6.41	6.11	2.44	2.47	11.06	4.73	2.72

**Calibration Component Summary Table  
Component Summary For RF**

	108 (198)	109 (199)	110 (196,203)	111 (189)	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1		0.622931	0.776259		1.946851			1.671979	0.743385	1.029802	
2	1.621528	0.625734	0.728915	1.439485	1.564712	0.664993	1.202962	1.782264	0.882512	1.440221	1.033291
3	1.334339	0.639792	0.690651	1.522675	1.812150	0.691812	1.252099	1.469936	0.898096	1.431730	0.943801
4	1.282073	0.605368	0.659811	1.355694	1.752089	0.616906	1.321091	1.416871	0.892335	1.336120	1.157604
5											
6											
Mean	1.413	0.623	0.714	1.439	1.769	0.658	1.259	1.585	0.854	1.309	1.045
Std. Dev.	0.183	0.014	0.050	0.083	0.159	0.038	0.059	0.171	0.074	0.192	0.107
% RSD	12.94	2.27	7.04	5.80	8.97	5.77	4.71	10.80	8.67	14.69	10.28



Sample Name: ICAL0823A  
Sample ID: ICAL 6.25 ng/mL  
Date Acquired: 08/23/2009 04:27:16 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-3

Sample Name: ICAL0823A

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0823A Sample Amount: 1  
 Sample ID: ICAL 6.25 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 04:27:16 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:22 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:06:33 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-3

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	120	0.439	0.439	0.029632
2	3 (2)	12.830				
3	4 (3)	12.937	38	0.256	0.256	0.015881
4	5 (4,10)	13.550	69	0.124	0.124	0.060102
5	6 (7,9)	14.424	141	0.044	0.044	0.346398
6	7 (6)	14.733	168	0.069	0.069	0.261754
7	8 (5,8)	14.917	483	0.512	0.512	0.101880
8	9 (14)	15.480				
9	10 (19)	15.557				
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.290				
13	14 (15,18)	16.422	481	0.135	0.135	0.383997
14	15 (17)	16.507	198	0.135	0.135	0.158294
15	16 (24,27)	16.823	50	0.009	0.009	0.568224
16	17 (16,32)	17.098	434	0.143	0.143	0.328924
17	19 (23,34,54)	17.532				
18	20 (29)	17.713				
19	21 (26)	17.822	86	0.026	0.026	0.350888
20	22 (25)	17.904	76	0.012	0.012	0.705294
21	23 (31)	18.116	857	0.151	0.151	0.613919
22	24 (28,50)	18.169	1048	0.193	0.193	0.586455
23	25 (20,21,33,53)	18.518	668	0.145	0.145	0.496963
24	26 (22,51)	18.756	361	0.106	0.106	0.368009
25	27 (45)	18.983	146	0.033	0.033	0.484763
26	28 (36)	19.120				
27	29 (46)	19.263	67	0.015	0.015	0.492024
28	30 (39)	19.386				

**Peak Results**

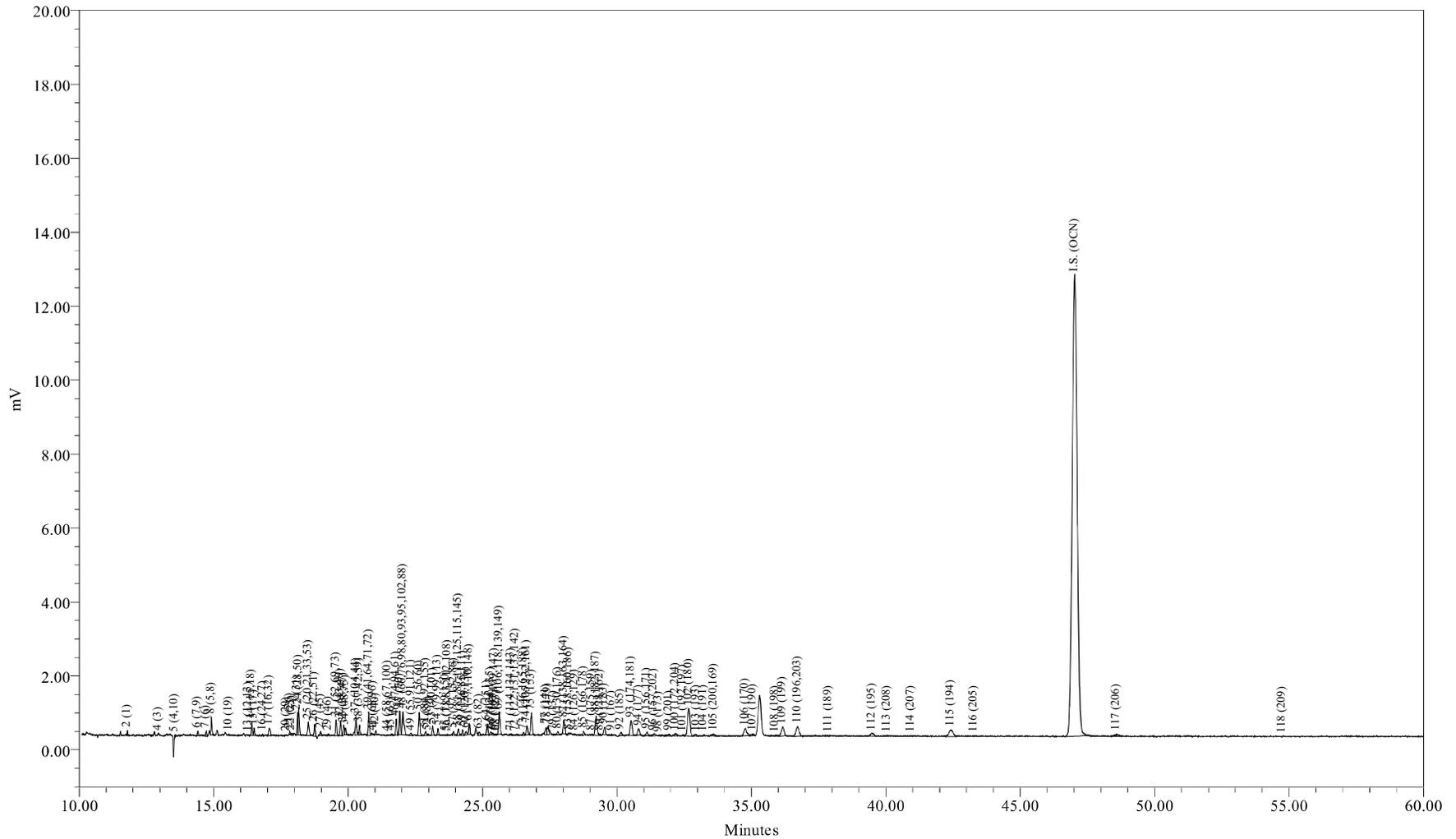
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.556	540	0.174	0.174	0.334493
30	32 (43,49)	19.725	482	0.084	0.084	0.619104
31	33 (38,47)	19.839	464	0.037	0.037	1.370859
32	34 (48,75)	19.888	283	0.037	0.037	0.835028
33	35 (62,65)	20.043				
34	36 (35)	20.126				
35	37 (104,44)	20.293	824	0.157	0.157	0.566170
36	38 (37,42,59)	20.427	404	0.095	0.095	0.458944
37	39 (41,64,71,72)	20.773	1012	0.150	0.150	0.728777
38	41 (68,96)	20.934				
39	42 (40)	21.031	162	0.034	0.034	0.509631
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.455				
42	45 (63)	21.638	66	0.008	0.008	0.932380
43	46 (74,94,61)	21.794	603	0.069	0.069	0.937655
44	47 (70)	21.925	992	0.124	0.124	0.861708
45	48 (66,76,98,80,93,95,102,88)	22.042	1474	0.263	0.263	0.604556
46	49 (55,91,121)	22.362	104	0.019	0.019	0.604177
47	50 (56,60)	22.648	1009	0.128	0.128	0.851587
48	51 (84,92,155)	22.886	180	0.066	0.066	0.295758
49	52 (89)	22.984				
50	53 (90,101)	23.144	373	0.066	0.066	0.612615
51	54 (79,99,113)	23.344	269	0.027	0.027	1.074533
52	55 (119,150)	23.613				
53	56 (78,83,112,108)	23.706				
54	57 (97,152,86)	23.936	149	0.020	0.020	0.788377
55	58 (81,87,117,125,115,145)	24.099	277	0.042	0.042	0.706397
56	59 (116,85,111)	24.257	177	0.026	0.026	0.747611
57	60 (120,136)	24.388	170	0.027	0.027	0.669671
58	61 (77,110,148)	24.513	462	0.078	0.078	0.641252
59	62 (154)	24.788				
60	63 (82)	24.889	151	0.016	0.016	1.016927
61	64 (151)	25.175	475	0.062	0.062	0.825962
62	65 (124,135)	25.294	143	0.011	0.011	1.454327
63	66 (144)	25.383	93	0.022	0.022	0.458432
64	67 (107,109,147)	25.438				
65	68 (123)	25.528				
66	69 (106,118,139,149)	25.625	1242	0.146	0.146	0.917208
67	70 (140)	25.741				
68	71 (114,134,143)	26.015	76	0.007	0.007	1.106105

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.233				
70	73 (146,165,188)	26.540	122	0.014	0.014	0.926113
71	74 (105,132,161)	26.658	515	0.050	0.050	1.123619
72	75 (153)	26.816	1059	0.108	0.108	1.062408
73	76 (127,168,184)	26.932				
74	77 (141)	27.355	378	0.062	0.062	0.656338
75	78 (179)	27.427	359	0.053	0.053	0.726963
76	79 (137)	27.645				
77	80 (130,176)	27.815	167	0.009	0.009	1.894839
78	82 (138,163,164)	28.029	1139	0.099	0.099	1.246194
79	83 (158,160,186)	28.235	132	0.009	0.009	1.557575
80	84 (126,129)	28.423				
81	85 (166,178)	28.760	177	0.040	0.040	0.475544
82	87 (175,159)	29.078				
83	88 (182,187)	29.221	1309	0.132	0.132	1.073924
84	89 (128,162)	29.355				
85	90 (183)	29.548	471	0.062	0.062	0.818987
86	91 (167)	29.825				
87	92 (185)	30.147	240	0.017	0.017	1.509153
88	93 (174,181)	30.531	1132	0.117	0.117	1.045167
89	94 (177)	30.799	528	0.062	0.062	0.916464
90	95 (156,171)	31.115	173	0.029	0.029	0.647711
91	96 (157,202)	31.385	165	0.002	0.002	7.382299
92	98 (173)	31.545				
93	99 (201)	31.942	118	0.014	0.014	0.895254
94	100 (172,204)	32.169	174	0.020	0.020	0.919050
95	101 (192,197)	32.480				
96	102 (180)	32.676	2409	0.223	0.223	1.166489
97	103 (193)	32.942	126	0.015	0.015	0.888579
98	104 (191)	33.226				
99	105 (200,169)	33.581	109	0.016	0.016	0.751066
100	106 (170)	34.773	757	0.047	0.047	1.746600
101	107 (190)	35.080	186	0.015	0.015	1.308494
102	108 (198)	35.919				
103	109 (199)	36.156	886	0.154	0.154	0.622931
104	110 (196,203)	36.718	1130	0.157	0.157	0.776259
105	111 (189)	37.898				
106	112 (195)	39.487	364	0.020	0.020	1.946851
107	113 (208)	40.015				
108	114 (207)	40.966				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.442	1019	0.066	0.066	1.671979
110	116 (205)	43.330	28	0.004	0.004	0.743385
111	I.S. (OCN)	47.034	168429	18.180	18.180	9264.517093
112	117 (206)	48.611	237	0.025	0.025	1.029802
113	118 (209)	54.729				



Sample Name: ICAL0823B  
Sample ID: ICAL 12.5 ng/mL  
Date Acquired: 08/23/2009 05:34:46 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-4



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0823B Sample Amount: 1  
 Sample ID: ICAL 12.5 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 05:34:46 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:24 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:06:44 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-4

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	253	0.877	0.877	0.032835
2	3 (2)	12.830				
3	4 (3)	12.936	76	0.512	0.512	0.016975
4	5 (4,10)	13.556	127	0.249	0.249	0.058221
5	6 (7,9)	14.408	326	0.088	0.088	0.423230
6	7 (6)	14.728	361	0.139	0.139	0.295591
7	8 (5,8)	14.915	1186	1.023	1.023	0.131906
8	9 (14)	15.480				
9	10 (19)	15.563	69	0.020	0.020	0.384454
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.297	42	0.020	0.020	0.245194
13	14 (15,18)	16.421	908	0.270	0.270	0.382202
14	15 (17)	16.505	443	0.270	0.270	0.186421
15	16 (24,27)	16.825	90	0.019	0.019	0.541246
16	17 (16,32)	17.070	896	0.285	0.285	0.357916
17	19 (23,34,54)	17.532				
18	20 (29)	17.706	21	0.004	0.004	0.619883
19	21 (26)	17.829	186	0.053	0.053	0.401916
20	22 (25)	17.903	133	0.023	0.023	0.647251
21	23 (31)	18.115	1463	0.301	0.301	0.552787
22	24 (28,50)	18.165	2075	0.386	0.386	0.612478
23	25 (20,21,33,53)	18.521	1273	0.290	0.290	0.499220
24	26 (22,51)	18.754	917	0.212	0.212	0.492274
25	27 (45)	18.976	287	0.065	0.065	0.501787
26	28 (36)	19.120				
27	29 (46)	19.264	135	0.029	0.029	0.526016
28	30 (39)	19.386				

**Peak Results**

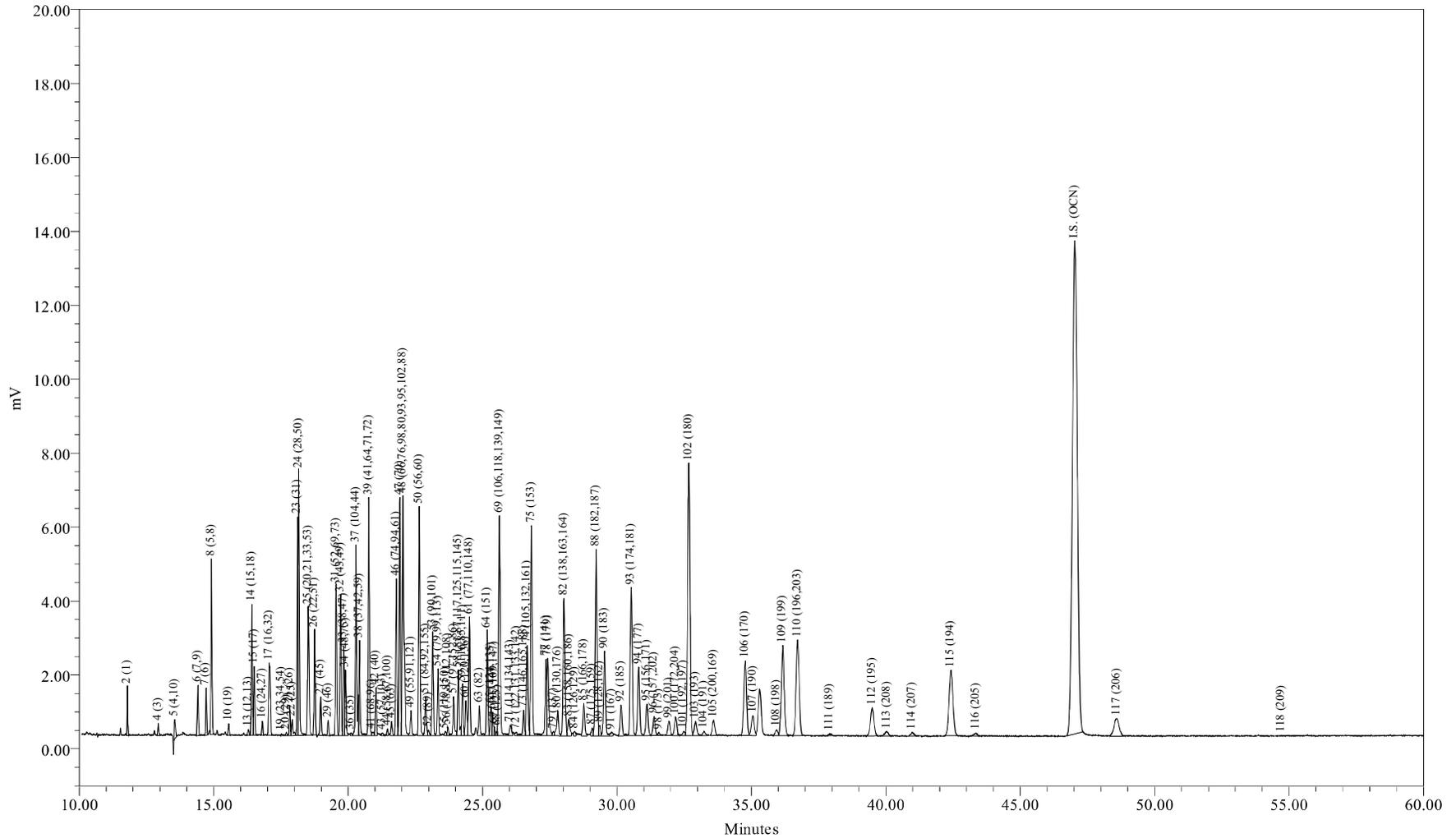
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552	1183	0.349	0.349	0.386396
30	32 (43,49)	19.719	1142	0.168	0.168	0.773561
31	33 (38,47)	19.834	777	0.073	0.073	1.209542
32	34 (48,75)	19.897	512	0.073	0.073	0.797278
33	35 (62,65)	20.043				
34	36 (35)	20.126				
35	37 (104,44)	20.292	1654	0.314	0.314	0.599105
36	38 (37,42,59)	20.424	771	0.190	0.190	0.462088
37	39 (41,64,71,72)	20.769	2023	0.300	0.300	0.768393
38	41 (68,96)	20.934	19			
39	42 (40)	21.032	307	0.069	0.069	0.508090
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.465	50	0.008	0.008	0.707261
42	45 (63)	21.615	108	0.015	0.015	0.798336
43	46 (74,94,61)	21.789	1223	0.139	0.139	1.002220
44	47 (70)	21.921	1831	0.249	0.249	0.838909
45	48 (66,76,98,80,93,95,102,88)	22.040	2633	0.526	0.526	0.569632
46	49 (55,91,121)	22.351	191	0.037	0.037	0.582925
47	50 (56,60)	22.649	1984	0.256	0.256	0.882795
48	51 (84,92,155)	22.880	363	0.132	0.132	0.314144
49	52 (89)	22.969	43	0.007	0.007	0.673304
50	53 (90,101)	23.139	745	0.132	0.132	0.644667
51	54 (79,99,113)	23.337	452	0.054	0.054	0.951802
52	55 (119,150)	23.638	33	0.002	0.002	1.818614
53	56 (78,83,112,108)	23.701	57	0.011	0.011	0.593047
54	57 (97,152,86)	23.925	318	0.041	0.041	0.885705
55	58 (81,87,117,125,115,145)	24.101	612	0.085	0.085	0.822042
56	59 (116,85,111)	24.253	418	0.051	0.051	0.930743
57	60 (120,136)	24.386	359	0.055	0.055	0.745420
58	61 (77,110,148)	24.507	863	0.156	0.156	0.630980
59	62 (154)	24.788				
60	63 (82)	24.871	321	0.032	0.032	1.134854
61	64 (151)	25.171	894	0.124	0.124	0.818899
62	65 (124,135)	25.301	277	0.021	0.021	1.487540
63	66 (144)	25.374	199	0.044	0.044	0.515840
64	67 (107,109,147)	25.442	58	0.009	0.009	0.690004
65	68 (123)	25.525	28			
66	69 (106,118,139,149)	25.622	2273	0.292	0.292	0.884858
67	70 (140)	25.741				
68	71 (114,134,143)	26.054	133	0.015	0.015	1.022079

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.226	36	0.002	0.002	1.909577
70	73 (146,165,188)	26.536	228	0.029	0.029	0.909918
71	74 (105,132,161)	26.652	965	0.099	0.099	1.108849
72	75 (153)	26.819	2152	0.215	0.215	1.137977
73	76 (127,168,184)	26.932				
74	77 (141)	27.358	721	0.124	0.124	0.660579
75	78 (179)	27.425	816	0.107	0.107	0.870319
76	79 (137)	27.643	42	0.005	0.005	0.881047
77	80 (130,176)	27.802	324	0.019	0.019	1.943213
78	82 (138,163,164)	28.027	1547	0.197	0.197	0.892152
79	83 (158,160,186)	28.205	233	0.018	0.018	1.451698
80	84 (126,129)	28.430	50	0.001	0.001	6.007449
81	85 (166,178)	28.757	376	0.080	0.080	0.532805
82	87 (175,159)	29.071	75	0.015	0.015	0.581956
83	88 (182,187)	29.226	2471	0.263	0.263	1.068903
84	89 (128,162)	29.379	89	0.007	0.007	1.389781
85	90 (183)	29.528	833	0.124	0.124	0.763510
86	91 (167)	29.799	49	0.004	0.004	1.558518
87	92 (185)	30.137	413	0.034	0.034	1.367680
88	93 (174,181)	30.529	1976	0.234	0.234	0.961705
89	94 (177)	30.812	812	0.124	0.124	0.744351
90	95 (156,171)	31.120	449	0.058	0.058	0.885260
91	96 (157,202)	31.371	296	0.005	0.005	6.985274
92	98 (173)	31.550	36	0.003	0.003	1.489567
93	99 (201)	31.924	214	0.029	0.029	0.853033
94	100 (172,204)	32.177	314	0.041	0.041	0.874241
95	101 (192,197)	32.456	62	0.008	0.008	0.880843
96	102 (180)	32.668	4629	0.446	0.446	1.181870
97	103 (193)	32.960	238	0.031	0.031	0.882562
98	104 (191)	33.229	68	0.009	0.009	0.882789
99	105 (200,169)	33.603	272	0.031	0.031	0.985890
100	106 (170)	34.773	1412	0.094	0.094	1.717970
101	107 (190)	35.048	344	0.031	0.031	1.276878
102	108 (198)	35.892	125	0.009	0.009	1.621528
103	109 (199)	36.163	1687	0.307	0.307	0.625734
104	110 (196,203)	36.721	2013	0.314	0.314	0.728915
105	111 (189)	37.883	37	0.003	0.003	1.439485
106	112 (195)	39.491	555	0.040	0.040	1.564712
107	113 (208)	40.056	105	0.018	0.018	0.664993
108	114 (207)	40.942	72	0.007	0.007	1.202962

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.407	2060	0.132	0.132	1.782264
110	116 (205)	43.285	62	0.008	0.008	0.882512
111	I.S. (OCN)	47.029	159698	18.180	18.180	8784.251140
112	117 (206)	48.580	629	0.050	0.050	1.440221
113	118 (209)	54.738	8	0.001	0.001	1.033291



Sample Name: ICAL0823C  
Sample ID: ICAL 125 ng/mL  
Date Acquired: 08/23/2009 06:42:13 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-5

Sample Name: ICAL0823C

1 of 1



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0823C Sample Amount: 1  
 Sample ID: ICAL 125 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 06:42:13 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:44:54 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:06:52 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-5

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	2398	8.771	8.771	0.029210
2	3 (2)	12.830				
3	4 (3)	12.937	773	5.117	5.117	0.016147
4	5 (4,10)	13.547	1585	2.485	2.485	0.068134
5	6 (7,9)	14.413	3939	0.877	0.877	0.479796
6	7 (6)	14.722	2938	1.389	1.389	0.226028
7	8 (5,8)	14.915	11729	10.233	10.233	0.122440
8	9 (14)	15.480				
9	10 (19)	15.559	760	0.205	0.205	0.396596
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.297	507	0.195	0.195	0.277784
13	14 (15,18)	16.422	10012	2.704	2.704	0.395495
14	15 (17)	16.508	4916	2.704	2.704	0.194169
15	16 (24,27)	16.808	953	0.190	0.190	0.535960
16	17 (16,32)	17.064	8910	2.851	2.851	0.333910
17	19 (23,34,54)	17.524	306			
18	20 (29)	17.705	259	0.039	0.039	0.712928
19	21 (26)	17.831	2232	0.526	0.526	0.453098
20	22 (25)	17.917	1596	0.234	0.234	0.728734
21	23 (31)	18.116	15038	3.014	3.014	0.533093
22	24 (28,50)	18.167	21524	3.857	3.857	0.596122
23	25 (20,21,33,53)	18.519	12375	2.903	2.903	0.455367
24	26 (22,51)	18.751	8207	2.120	2.120	0.413615
25	27 (45)	18.980	3055	0.650	0.650	0.501694
26	28 (36)	19.120				
27	29 (46)	19.257	1343	0.292	0.292	0.490549
28	30 (39)	19.386				

**Peak Results**

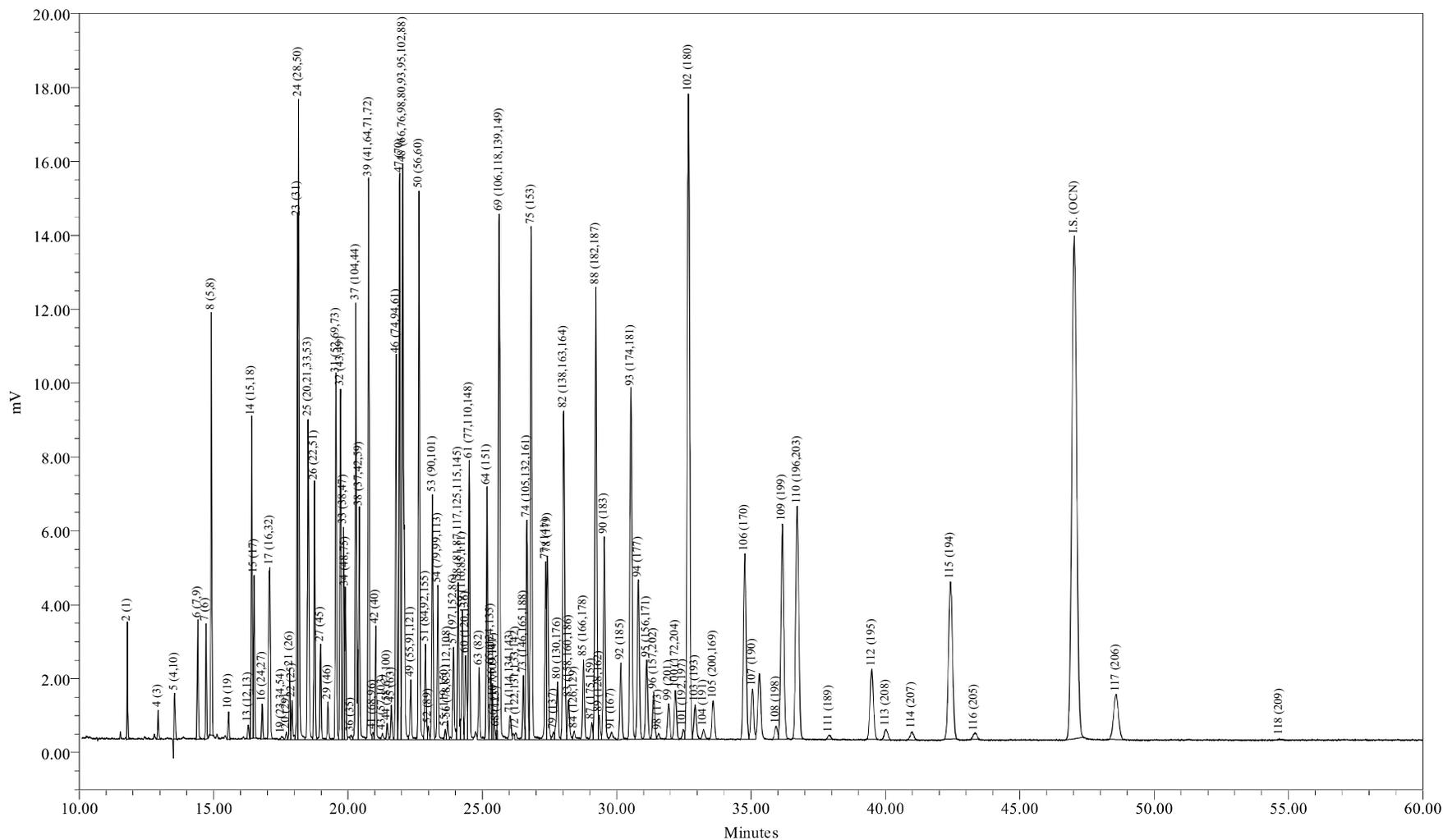
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.551	12339	3.487	3.487	0.378059
30	32 (43,49)	19.721	11548	1.681	1.681	0.733789
31	33 (38,47)	19.837	6966	0.731	0.731	1.017967
32	34 (48,75)	19.899	5358	0.731	0.731	0.783002
33	35 (62,65)	20.043				
34	36 (35)	20.114	293			
35	37 (104,44)	20.293	17122	3.143	3.143	0.581960
36	38 (37,42,59)	20.424	8310	1.901	1.901	0.467121
37	39 (41,64,71,72)	20.771	20536	2.997	2.997	0.732026
38	41 (68,96)	20.877	498			
39	42 (40)	21.034	3894	0.687	0.687	0.605440
40	43 (57,103)	21.281	371			
41	44 (58,67,100)	21.465	540	0.080	0.080	0.717802
42	45 (63)	21.619	1260	0.154	0.154	0.876852
43	46 (74,94,61)	21.792	13389	1.389	1.389	1.029904
44	47 (70)	21.923	19775	2.485	2.485	0.850054
45	48 (66,76,98,80,93,95,102,88)	22.041	28071	5.263	5.263	0.569828
46	49 (55,91,121)	22.339	2445	0.373	0.373	0.700596
47	50 (56,60)	22.649	19933	2.558	2.558	0.832386
48	51 (84,92,155)	22.884	4205	1.316	1.316	0.341422
49	52 (89)	22.991	541	0.073	0.073	0.790446
50	53 (90,101)	23.146	9099	1.316	1.316	0.738803
51	54 (79,99,113)	23.341	5774	0.541	0.541	1.140390
52	55 (119,150)	23.616	409	0.020	0.020	2.131712
53	56 (78,83,112,108)	23.711	743	0.110	0.110	0.724203
54	57 (97,152,86)	23.926	4054	0.409	0.409	1.058072
55	58 (81,87,117,125,115,145)	24.101	6385	0.848	0.848	0.804478
56	59 (116,85,111)	24.254	4674	0.512	0.512	0.975828
57	60 (120,136)	24.377	4105	0.548	0.548	0.800029
58	61 (77,110,148)	24.510	10698	1.557	1.557	0.734106
59	62 (154)	24.788				
60	63 (82)	24.877	3165	0.322	0.322	1.051477
61	64 (151)	25.174	9480	1.243	1.243	0.815021
62	65 (124,135)	25.313	2791	0.212	0.212	1.406136
63	66 (144)	25.373	2118	0.439	0.439	0.515858
64	67 (107,109,147)	25.440	633	0.095	0.095	0.711530
65	68 (123)	25.553	394			
66	69 (106,118,139,149)	25.626	25034	2.924	2.924	0.914679
67	70 (140)	25.741				
68	71 (114,134,143)	26.031	1544	0.148	0.148	1.117389

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.257	436	0.021	0.021	2.188855
70	73 (146,165,188)	26.529	2910	0.285	0.285	1.090203
71	74 (105,132,161)	26.661	10689	0.990	0.990	1.153027
72	75 (153)	26.819	22709	2.153	2.153	1.126951
73	76 (127,168,184)	26.932				
74	77 (141)	27.358	8379	1.243	1.243	0.720416
75	78 (179)	27.428	9092	1.067	1.067	0.910090
76	79 (137)	27.638	437	0.055	0.055	0.852217
77	80 (130,176)	27.795	3591	0.190	0.190	2.019416
78	82 (138,163,164)	28.026	18675	1.974	1.974	1.010861
79	83 (158,160,186)	28.211	2323	0.183	0.183	1.358386
80	84 (126,129)	28.430	636	0.009	0.009	7.182843
81	85 (166,178)	28.764	4326	0.804	0.804	0.574829
82	87 (175,159)	29.075	1005	0.146	0.146	0.734180
83	88 (182,187)	29.224	24307	2.631	2.631	0.986819
84	89 (128,162)	29.357	1213	0.073	0.073	1.772792
85	90 (183)	29.534	11417	1.243	1.243	0.981578
86	91 (167)	29.800	626	0.036	0.036	1.865307
87	92 (185)	30.151	4593	0.343	0.343	1.428605
88	93 (174,181)	30.532	20869	2.339	2.339	0.953185
89	94 (177)	30.809	9932	1.243	1.243	0.853863
90	95 (156,171)	31.120	4918	0.578	0.578	0.909689
91	96 (157,202)	31.382	2846	0.048	0.048	6.297338
92	98 (173)	31.561	384	0.028	0.028	1.476009
93	99 (201)	31.930	2286	0.285	0.285	0.856582
94	100 (172,204)	32.178	3139	0.409	0.409	0.819298
95	101 (192,197)	32.479	643	0.080	0.080	0.854574
96	102 (180)	32.671	45419	4.459	4.459	1.088211
97	103 (193)	32.925	2610	0.307	0.307	0.908205
98	104 (191)	33.241	761	0.088	0.088	0.926962
99	105 (200,169)	33.598	2658	0.314	0.314	0.903351
100	106 (170)	34.773	14191	0.936	0.936	1.620384
101	107 (190)	35.052	3904	0.307	0.307	1.358495
102	108 (198)	35.932	1095	0.088	0.088	1.334339
103	109 (199)	36.169	18386	3.070	3.070	0.639792
104	110 (196,203)	36.721	20320	3.143	3.143	0.690651
105	111 (189)	37.915	416	0.029	0.029	1.522675
106	112 (195)	39.497	6855	0.404	0.404	1.812150
107	113 (208)	40.047	1169	0.180	0.180	0.691812
108	114 (207)	40.982	797	0.068	0.068	1.252099

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.427	18103	1.316	1.316	1.469936
110	116 (205)	43.353	676	0.080	0.080	0.898096
111	I.S. (OCN)	47.026	170177	18.180	18.180	9360.685917
112	117 (206)	48.598	6660	0.497	0.497	1.431730
113	118 (209)	54.712	78	0.009	0.009	0.943801



Sample Name: ICAL0823D  
Sample ID: ICAL 314 ng/mL  
Date Acquired: 08/23/2009 07:49:33 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-6



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Sample Name: ICAL0823D Sample Amount: 1  
 Sample ID: ICAL 314 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 07:49:33 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:27 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:07:09 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-6

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	5871	21.928	21.928	0.028105
2	3 (2)	12.830				
3	4 (3)	12.934	1761	12.792	12.792	0.014452
4	5 (4,10)	13.546	3392	6.213	6.213	0.057309
5	6 (7,9)	14.413	9480	2.193	2.193	0.453855
6	7 (6)	14.723	7236	3.472	3.472	0.218794
7	8 (5,8)	14.914	27999	25.583	25.583	0.114890
8	9 (14)	15.480				
9	10 (19)	15.558	1860	0.512	0.512	0.381476
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.289	1337	0.488	0.488	0.287784
13	14 (15,18)	16.420	24156	6.761	6.761	0.375045
14	15 (17)	16.508	11681	6.761	6.761	0.181353
15	16 (24,27)	16.808	2578	0.475	0.475	0.569882
16	17 (16,32)	17.092	21419	7.127	7.127	0.315497
17	19 (23,34,54)	17.524	566			
18	20 (29)	17.708	618	0.097	0.097	0.668511
19	21 (26)	17.832	5326	1.316	1.316	0.424895
20	22 (25)	17.915	3459	0.585	0.585	0.620919
21	23 (31)	18.114	36748	7.534	7.534	0.512021
22	24 (28,50)	18.165	51487	9.643	9.643	0.560491
23	25 (20,21,33,53)	18.518	30563	7.258	7.258	0.442032
24	26 (22,51)	18.750	20553	5.300	5.300	0.407109
25	27 (45)	18.979	7857	1.626	1.626	0.507222
26	28 (36)	19.120				
27	29 (46)	19.254	3163	0.731	0.731	0.454125
28	30 (39)	19.386				

**Peak Results**

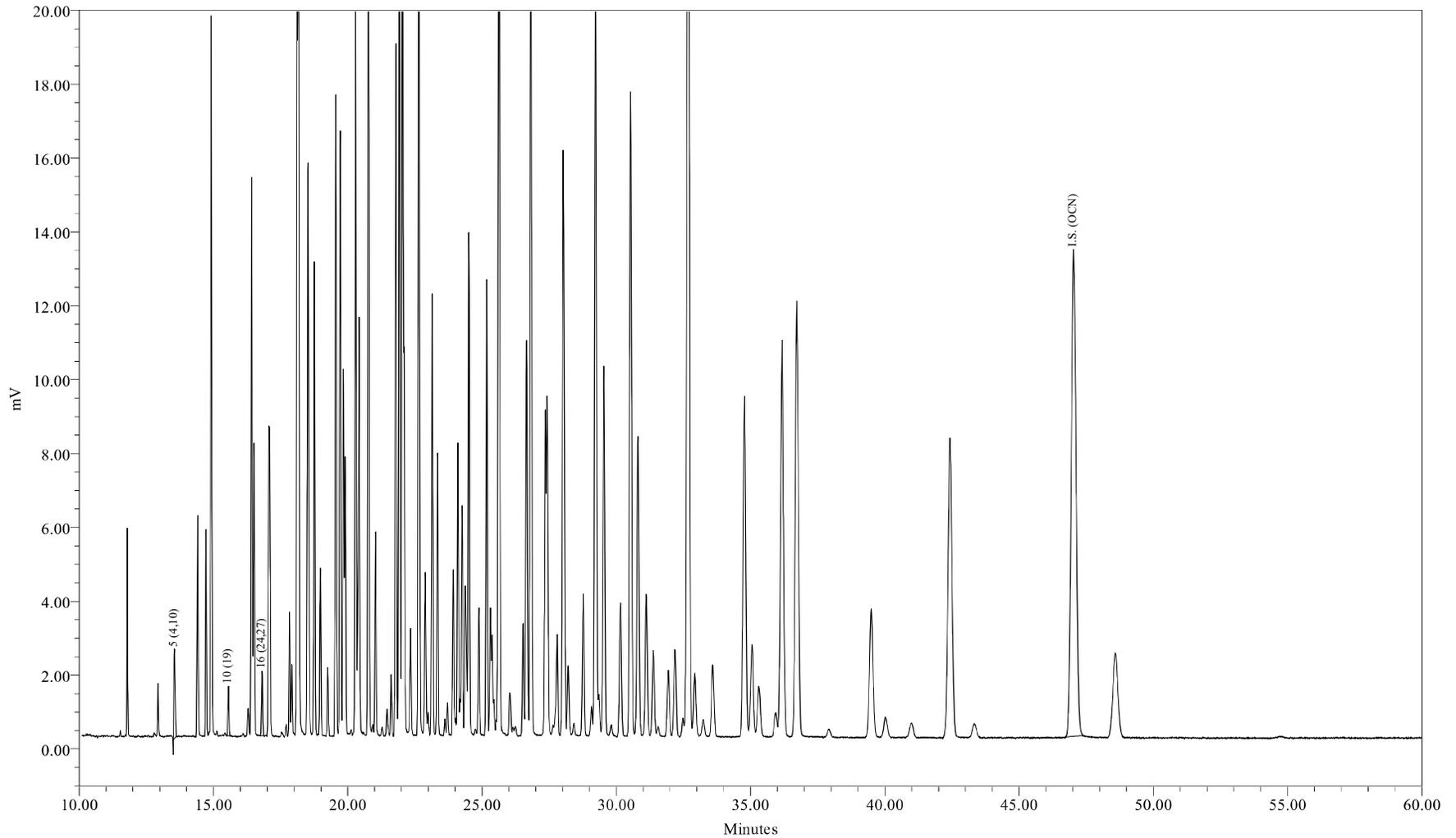
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552	29508	8.716	8.716	0.355374
30	32 (43,49)	19.722	27812	4.203	4.203	0.694636
31	33 (38,47)	19.837	16560	1.828	1.828	0.951170
32	34 (48,75)	19.899	12258	1.828	1.828	0.704106
33	35 (62,65)	20.043				
34	36 (35)	20.117	555			
35	37 (104,44)	20.292	40168	7.858	7.858	0.536620
36	38 (37,42,59)	20.422	20397	4.751	4.751	0.450655
37	39 (41,64,71,72)	20.771	49428	7.492	7.492	0.692542
38	41 (68,96)	20.929	646			
39	42 (40)	21.034	9798	1.718	1.718	0.598785
40	43 (57,103)	21.287	736			
41	44 (58,67,100)	21.460	1520	0.201	0.201	0.793915
42	45 (63)	21.618	2969	0.384	0.384	0.812281
43	46 (74,94,61)	21.791	32728	3.472	3.472	0.989533
44	47 (70)	21.922	47320	6.213	6.213	0.799532
45	48 (66,76,98,80,93,95,102,88)	22.039	66945	13.157	13.157	0.534135
46	49 (55,91,121)	22.339	5962	0.932	0.932	0.671497
47	50 (56,60)	22.645	48747	6.396	6.396	0.800105
48	51 (84,92,155)	22.883	10007	3.289	3.289	0.319375
49	52 (89)	22.987	1248	0.183	0.183	0.717089
50	53 (90,101)	23.145	21346	3.289	3.289	0.681254
51	54 (79,99,113)	23.340	13958	1.352	1.352	1.083548
52	55 (119,150)	23.620	891	0.051	0.051	1.826349
53	56 (78,83,112,108)	23.712	1775	0.274	0.274	0.680132
54	57 (97,152,86)	23.926	9233	1.023	1.023	0.947302
55	58 (81,87,117,125,115,145)	24.100	14982	2.120	2.120	0.741962
56	59 (116,85,111)	24.255	11467	1.279	1.279	0.940917
57	60 (120,136)	24.377	9893	1.370	1.370	0.757777
58	61 (77,110,148)	24.510	25343	3.892	3.892	0.683526
59	62 (154)	24.788				
60	63 (82)	24.877	6897	0.804	0.804	0.900550
61	64 (151)	25.175	22468	3.106	3.106	0.759250
62	65 (124,135)	25.308	6284	0.530	0.530	1.244419
63	66 (144)	25.373	5226	1.097	1.097	0.500279
64	67 (107,109,147)	25.437	1743	0.237	0.237	0.770566
65	68 (123)	25.530	719			
66	69 (106,118,139,149)	25.625	58526	7.309	7.309	0.840525
67	70 (140)	25.741				
68	71 (114,134,143)	26.037	3329	0.369	0.369	0.947250

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.241	1018	0.053	0.053	2.009293
70	73 (146,165,188)	26.530	6378	0.713	0.713	0.939225
71	74 (105,132,161)	26.660	25528	2.476	2.476	1.082338
72	75 (153)	26.817	52890	5.382	5.382	1.031638
73	76 (127,168,184)	26.932				
74	77 (141)	27.359	19114	3.106	3.106	0.645898
75	78 (179)	27.426	20074	2.668	2.668	0.789843
76	79 (137)	27.647	1090	0.137	0.137	0.835262
77	80 (130,176)	27.795	7836	0.475	0.475	1.732219
78	82 (138,163,164)	28.026	44879	4.964	4.964	0.949063
79	83 (158,160,186)	28.209	5169	0.457	0.457	1.188130
80	84 (126,129)	28.417	1593	0.024	0.024	7.071409
81	85 (166,178)	28.765	10206	2.010	2.010	0.533033
82	87 (175,159)	29.070	2269	0.366	0.366	0.651759
83	88 (182,187)	29.223	58646	6.578	6.578	0.935849
84	89 (128,162)	29.344	2706	0.183	0.183	1.554016
85	90 (183)	29.535	26713	3.106	3.106	0.902713
86	91 (167)	29.803	1522	0.090	0.090	1.782484
87	92 (185)	30.153	10754	0.859	0.859	1.314779
88	93 (174,181)	30.531	50588	5.847	5.847	0.908188
89	94 (177)	30.806	23729	3.106	3.106	0.801864
90	95 (156,171)	31.118	11914	1.444	1.444	0.866166
91	96 (157,202)	31.381	6937	0.121	0.121	6.033590
92	98 (173)	31.558	806	0.069	0.069	1.218267
93	99 (201)	31.933	5439	0.713	0.713	0.801005
94	100 (172,204)	32.188	7656	1.023	1.023	0.785456
95	101 (192,197)	32.475	1489	0.201	0.201	0.777560
96	102 (180)	32.669	110036	11.147	11.147	1.036246
97	103 (193)	32.920	6258	0.768	0.768	0.855976
98	104 (191)	33.236	1879	0.219	0.219	0.899561
99	105 (200,169)	33.593	6765	0.786	0.786	0.903833
100	106 (170)	34.767	35205	2.339	2.339	1.580043
101	107 (190)	35.048	9799	0.768	0.768	1.340224
102	108 (198)	35.933	2677	0.219	0.219	1.282073
103	109 (199)	36.164	44260	7.675	7.675	0.605368
104	110 (196,203)	36.718	49389	7.858	7.858	0.659811
105	111 (189)	37.905	942	0.073	0.073	1.355694
106	112 (195)	39.496	16863	1.010	1.010	1.752089
107	113 (208)	40.024	2652	0.451	0.451	0.616906
108	114 (207)	40.986	2139	0.170	0.170	1.321091

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.422	44395	3.289	3.289	1.416871
110	116 (205)	43.309	1708	0.201	0.201	0.892335
111	I.S. (OCN)	47.032	173183	18.180	18.180	9526.041452
112	117 (206)	48.593	15813	1.242	1.242	1.336120
113	118 (209)	54.659	244	0.022	0.022	1.157604



Sample Name: ICAL0823E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 08/23/2009 08:56:52 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-7

Sample Name: ICAL0823E

1 of 1



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0823E Sample Amount: 1  
 Sample ID: ICAL 627 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 08:56:52 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:29 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:07:18 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-7

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.789				
2	3 (2)	12.830				
3	4 (3)	12.934				
4	5 (4,10)	13.546	6942	12.426	12.426	0.061254
5	6 (7,9)	14.409				
6	7 (6)	14.721				
7	8 (5,8)	14.914				
8	9 (14)	15.480				
9	10 (19)	15.558	3189	1.024	1.024	0.341546
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.290				
13	14 (15,18)	16.422				
14	15 (17)	16.508				
15	16 (24,27)	16.810	4817	0.950	0.950	0.556099
16	17 (16,32)	17.077				
17	19 (23,34,54)	17.532				
18	20 (29)	17.713				
19	21 (26)	17.830				
20	22 (25)	17.916				
21	23 (31)	18.115				
22	24 (28,50)	18.164				
23	25 (20,21,33,53)	18.519				
24	26 (22,51)	18.752				
25	27 (45)	18.980				
26	28 (36)	19.120				
27	29 (46)	19.255				
28	30 (39)	19.386				

**Peak Results**

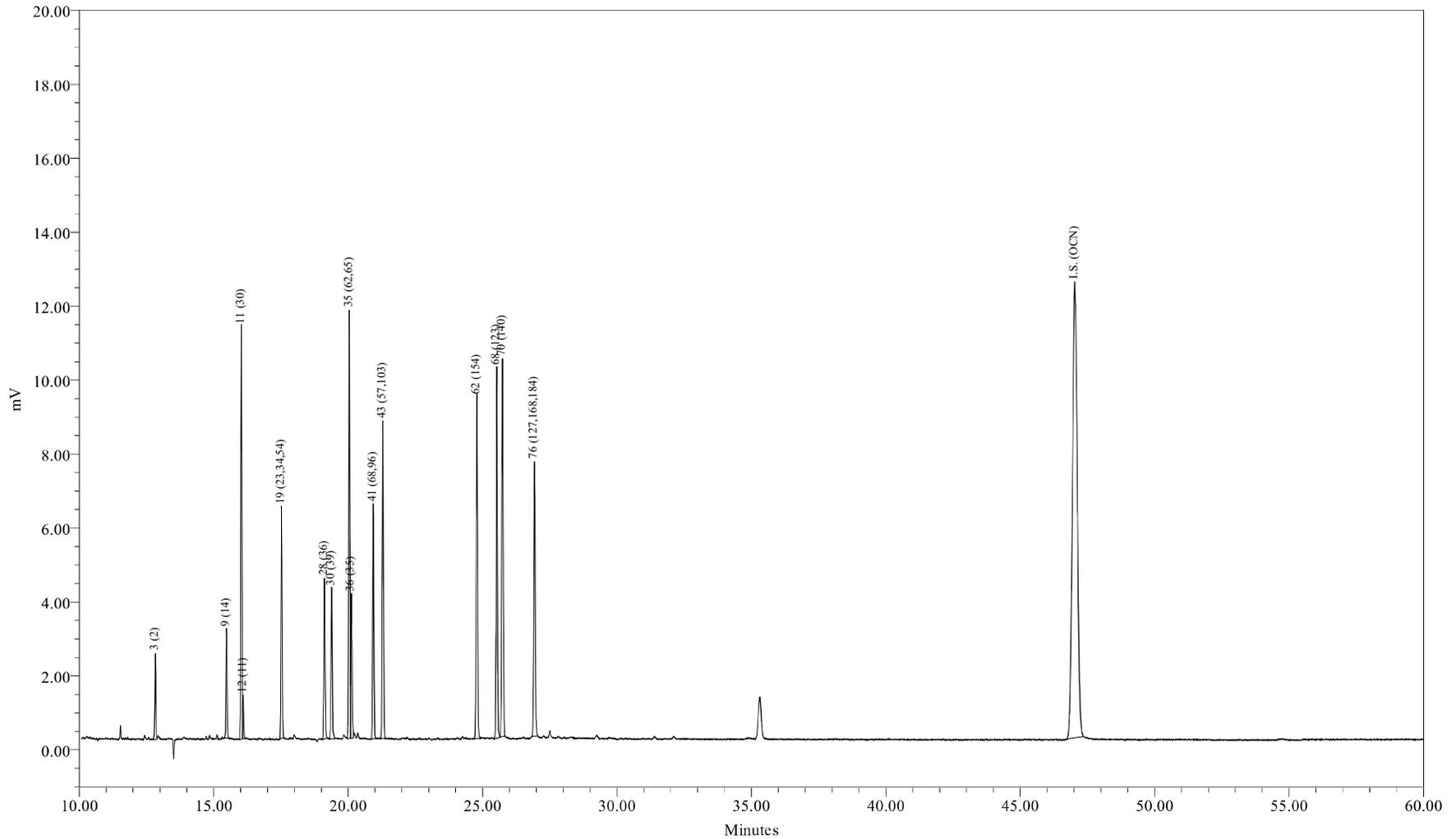
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552				
30	32 (43,49)	19.719				
31	33 (38,47)	19.836				
32	34 (48,75)	19.900				
33	35 (62,65)	20.043				
34	36 (35)	20.126				
35	37 (104,44)	20.292				
36	38 (37,42,59)	20.426				
37	39 (41,64,71,72)	20.770				
38	41 (68,96)	20.934				
39	42 (40)	21.035				
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.455				
42	45 (63)	21.616				
43	46 (74,94,61)	21.791				
44	47 (70)	21.923				
45	48 (66,76,98,80,93,95,102,88)	22.042				
46	49 (55,91,121)	22.335				
47	50 (56,60)	22.642				
48	51 (84,92,155)	22.879				
49	52 (89)	22.984				
50	53 (90,101)	23.139				
51	54 (79,99,113)	23.337				
52	55 (119,150)	23.613				
53	56 (78,83,112,108)	23.706				
54	57 (97,152,86)	23.930				
55	58 (81,87,117,125,115,145)	24.099				
56	59 (116,85,111)	24.256				
57	60 (120,136)	24.380				
58	61 (77,110,148)	24.506				
59	62 (154)	24.788				
60	63 (82)	24.873				
61	64 (151)	25.170				
62	65 (124,135)	25.303				
63	66 (144)	25.373				
64	67 (107,109,147)	25.438				
65	68 (123)	25.528				
66	69 (106,118,139,149)	25.623				
67	70 (140)	25.741				
68	71 (114,134,143)	26.040				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.233				
70	73 (146,165,188)	26.523				
71	74 (105,132,161)	26.664				
72	75 (153)	26.821				
73	76 (127,168,184)	26.932				
74	77 (141)	27.352				
75	78 (179)	27.423				
76	79 (137)	27.645				
77	80 (130,176)	27.795				
78	82 (138,163,164)	28.023				
79	83 (158,160,186)	28.213				
80	84 (126,129)	28.423				
81	85 (166,178)	28.766				
82	87 (175,159)	29.078				
83	88 (182,187)	29.222				
84	89 (128,162)	29.355				
85	90 (183)	29.534				
86	91 (167)	29.825				
87	92 (185)	30.153				
88	93 (174,181)	30.528				
89	94 (177)	30.807				
90	95 (156,171)	31.108				
91	96 (157,202)	31.378				
92	98 (173)	31.545				
93	99 (201)	31.924				
94	100 (172,204)	32.182				
95	101 (192,197)	32.480				
96	102 (180)	32.666				
97	103 (193)	32.919				
98	104 (191)	33.226				
99	105 (200,169)	33.578				
100	106 (170)	34.765				
101	107 (190)	35.040				
102	108 (198)	35.919				
103	109 (199)	36.162				
104	110 (196,203)	36.710				
105	111 (189)	37.898				
106	112 (195)	39.493				
107	113 (208)	40.015				
108	114 (207)	40.966				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.421				
110	116 (205)	43.318				
111	I.S. (OCN)	47.028	165807	18.180	18.180	9120.293904
112	117 (206)	48.573				
113	118 (209)	54.729				



Sample Name: SC0823A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 08/23/2009 11:11:32 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-9

Sample Name: SC0823A

1 of 1



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Sample Name: SC0823A Sample Amount: 1  
 Sample ID: SUP CONG STD 200/5 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 11:11:32 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:31 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:07:30 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-9

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.789				
2	3 (2)	12.830	4953	200.000	200.000	0.002899
3	4 (3)	12.934				
4	5 (4,10)	13.545				
5	6 (7,9)	14.409				
6	7 (6)	14.721				
7	8 (5,8)	14.914				
8	9 (14)	15.479	7556	5.000	5.000	0.176869
9	10 (19)	15.557				
10	11 (30)	16.030	28410	5.000	5.000	0.665040
11	12 (11)	16.092	2772	5.000	5.000	0.064897
12	13 (12,13)	16.290				
13	14 (15,18)	16.422				
14	15 (17)	16.508				
15	16 (24,27)	16.808				
16	17 (16,32)	17.077				
17	19 (23,34,54)	17.525	16956	5.000	5.000	0.396913
18	20 (29)	17.713				
19	21 (26)	17.830				
20	22 (25)	17.916				
21	23 (31)	18.115				
22	24 (28,50)	18.164				
23	25 (20,21,33,53)	18.519				
24	26 (22,51)	18.752				
25	27 (45)	18.980				
26	28 (36)	19.120	12881	5.000	5.000	0.301528
27	29 (46)	19.255				
28	30 (39)	19.384	12749	5.000	5.000	0.298422

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552				
30	32 (43,49)	19.719				
31	33 (38,47)	19.836				
32	34 (48,75)	19.900				
33	35 (62,65)	20.043	33632	5.000	5.000	0.787266
34	36 (35)	20.125	12016	5.000	5.000	0.281286
35	37 (104,44)	20.292				
36	38 (37,42,59)	20.426				
37	39 (41,64,71,72)	20.770				
38	41 (68,96)	20.936	18945	5.000	5.000	0.443464
39	42 (40)	21.035				
40	43 (57,103)	21.292	25879	5.000	5.000	0.605790
41	44 (58,67,100)	21.455				
42	45 (63)	21.616				
43	46 (74,94,61)	21.791				
44	47 (70)	21.923				
45	48 (66,76,98,80,93,95,102,88)	22.042				
46	49 (55,91,121)	22.335				
47	50 (56,60)	22.642				
48	51 (84,92,155)	22.879				
49	52 (89)	22.984				
50	53 (90,101)	23.139				
51	54 (79,99,113)	23.337				
52	55 (119,150)	23.613				
53	56 (78,83,112,108)	23.706				
54	57 (97,152,86)	23.930				
55	58 (81,87,117,125,115,145)	24.099				
56	59 (116,85,111)	24.256				
57	60 (120,136)	24.380				
58	61 (77,110,148)	24.506				
59	62 (154)	24.789	30387	5.000	5.000	0.711303
60	63 (82)	24.873				
61	64 (151)	25.170				
62	65 (124,135)	25.303				
63	66 (144)	25.373				
64	67 (107,109,147)	25.438				
65	68 (123)	25.530	32876	5.000	5.000	0.769564
66	69 (106,118,139,149)	25.623				
67	70 (140)	25.740	34766	5.000	5.000	0.813822
68	71 (114,134,143)	26.040				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.233				
70	73 (146,165,188)	26.523				
71	74 (105,132,161)	26.664				
72	75 (153)	26.821				
73	76 (127,168,184)	26.932	28307	5.000	5.000	0.662615
74	77 (141)	27.352				
75	78 (179)	27.423				
76	79 (137)	27.645				
77	80 (130,176)	27.795				
78	82 (138,163,164)	28.023				
79	83 (158,160,186)	28.213				
80	84 (126,129)	28.423				
81	85 (166,178)	28.766				
82	87 (175,159)	29.078				
83	88 (182,187)	29.222				
84	89 (128,162)	29.355				
85	90 (183)	29.534				
86	91 (167)	29.825				
87	92 (185)	30.153				
88	93 (174,181)	30.528				
89	94 (177)	30.807				
90	95 (156,171)	31.108				
91	96 (157,202)	31.378				
92	98 (173)	31.545				
93	99 (201)	31.924				
94	100 (172,204)	32.182				
95	101 (192,197)	32.480				
96	102 (180)	32.666				
97	103 (193)	32.919				
98	104 (191)	33.226				
99	105 (200,169)	33.578				
100	106 (170)	34.765				
101	107 (190)	35.040				
102	108 (198)	35.919				
103	109 (199)	36.162				
104	110 (196,203)	36.710				
105	111 (189)	37.898				
106	112 (195)	39.493				
107	113 (208)	40.015				
108	114 (207)	40.966				

**Peak Results**

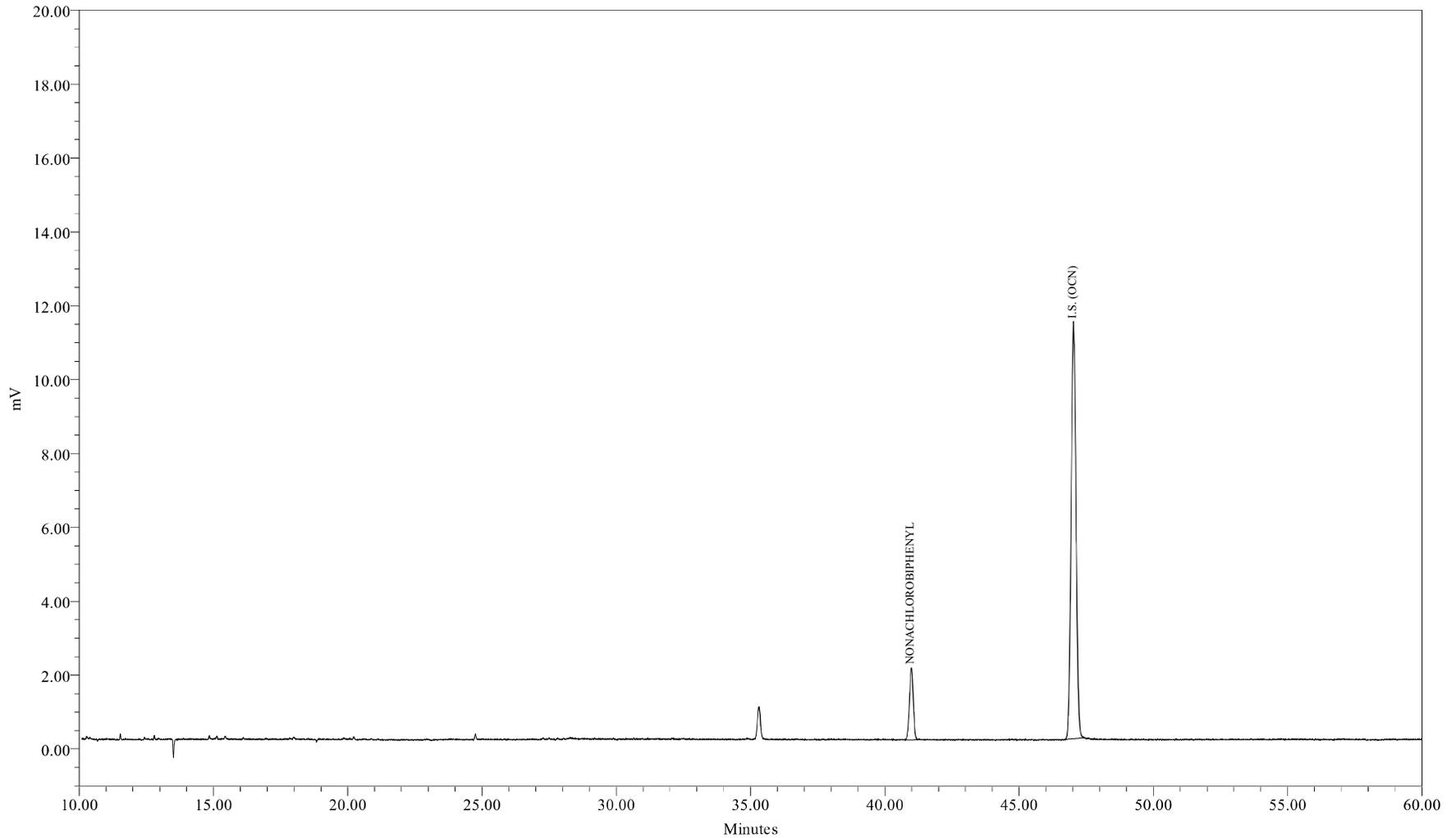
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.421				
110	116 (205)	43.318				
111	I.S. (OCN)	47.026	155329	18.180	18.180	8543.971717
112	117 (206)	48.573				
113	118 (209)	54.729				



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Sample Name: SS0823A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 08/23/2009 12:18:49 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_2\_082309  
LIMS File ID: GC16-769-10

Sample Name: SS0823A

1 of 1

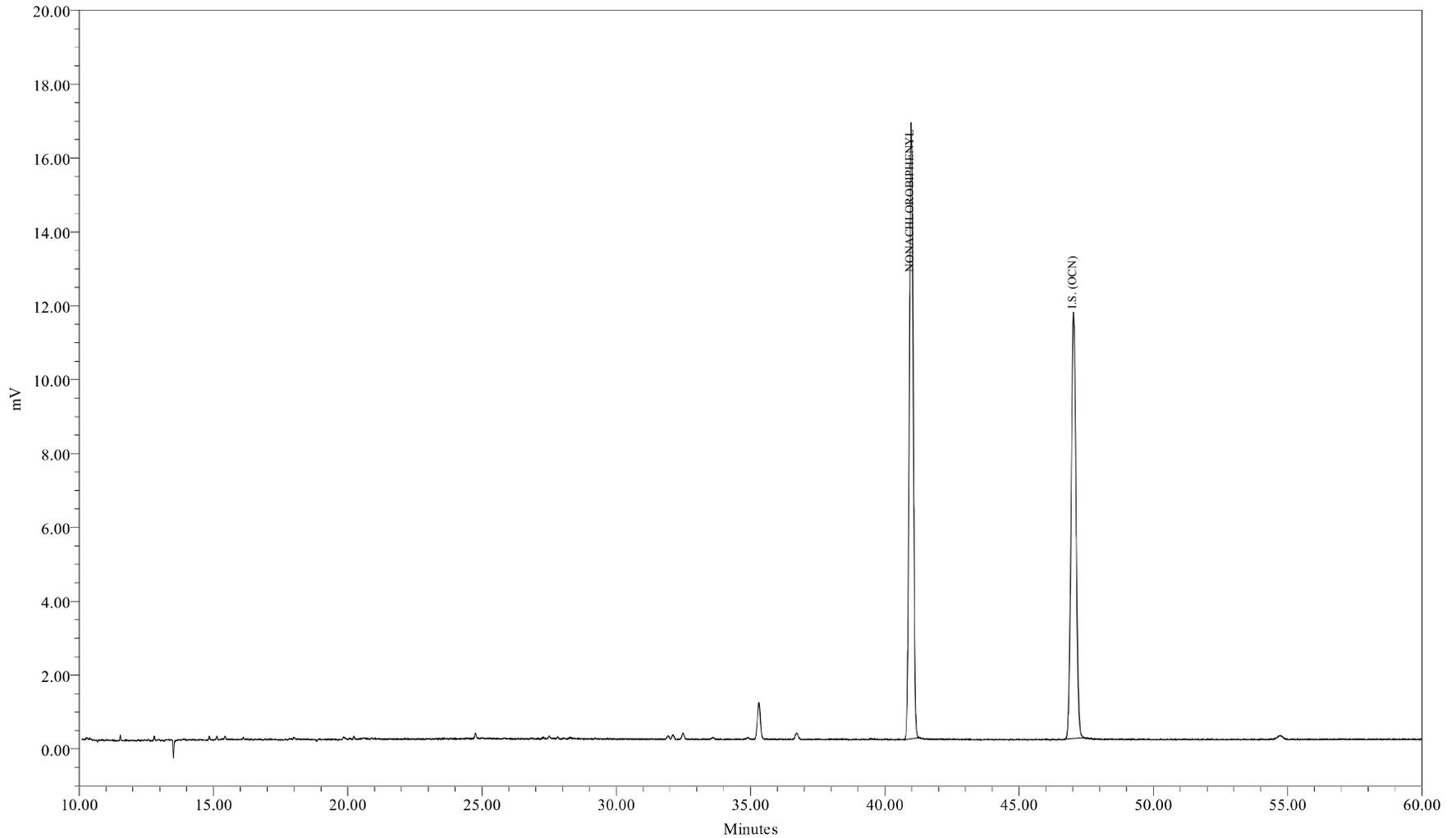


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Sample Name: SS0823A Sample Amount: 1  
Sample ID: Surr Std (207) 2.0 ng/mL Dilution: 1  
Date Acquired: 08/23/2009 12:18:49 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:29:07 EDT  
Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_2\_082309 Current Date: 09/02/2009  
Run Time: 60.0 Minutes Current Time: 01:07:40 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-10

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.987	19130	2.000	2.000	1.219928
2	I.S. (OCN)	47.024	142546	18.180	18.180	7840.805241



Sample Name: SS0823B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 08/23/2009 13:26:05 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_20\_082309  
LIMS File ID: GC16-769-11

Sample Name: SS0823B

1 of 1

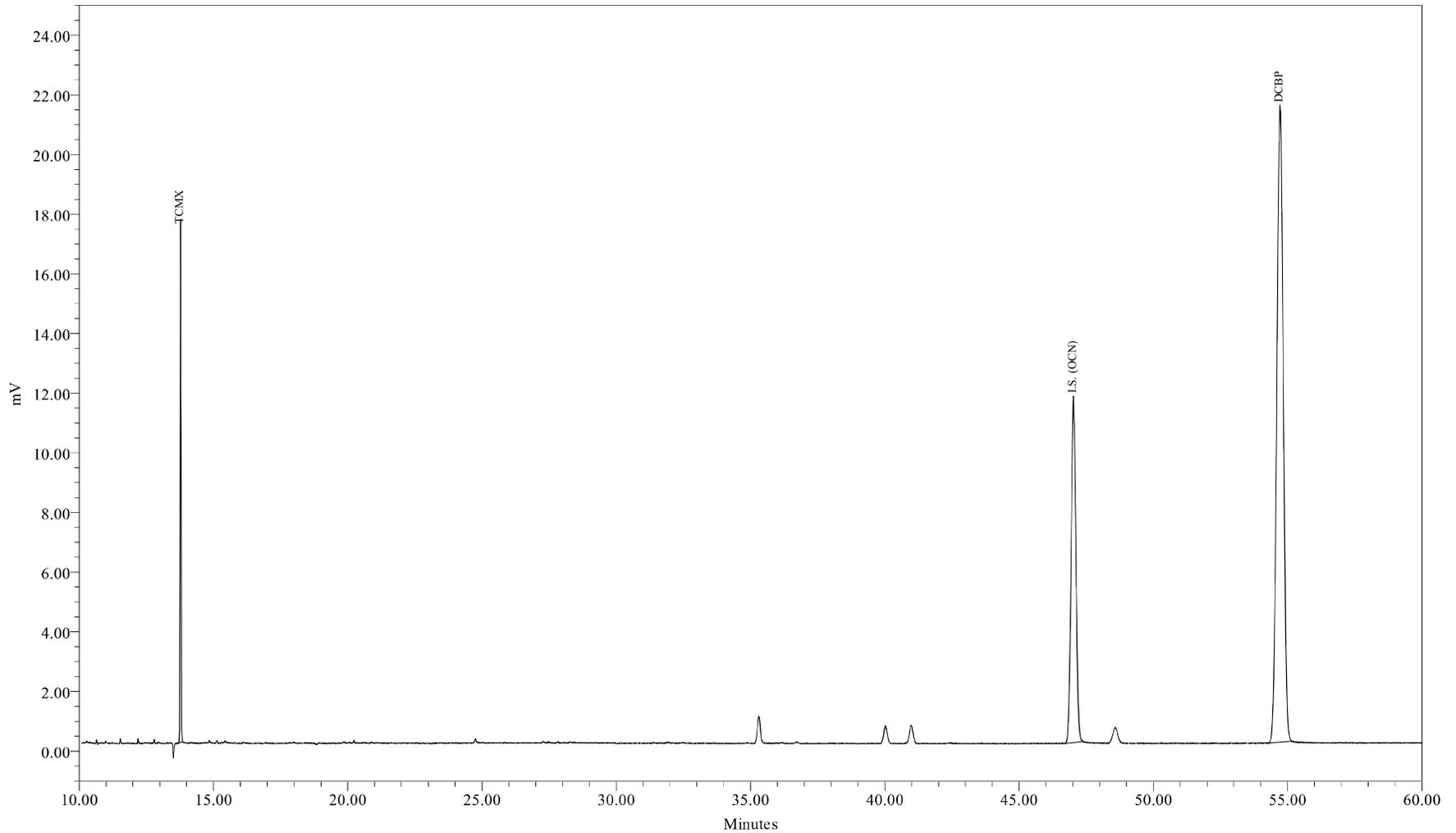


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Sample Name: SS0823B Sample Amount: 1  
Sample ID: Surr Std (207) 20.0 ng/mL Dilution: 1  
Date Acquired: 08/23/2009 13:26:05 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:29:51 EDT  
Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_20\_082309 Current Date: 09/02/2009  
Run Time: 60.0 Minutes Current Time: 01:07:48 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-11

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.981	168883	20.000	20.000	1.047607
2	I.S. (OCN)	47.020	146538	18.180	18.180	8060.411822



Sample Name: TD0823A  
Sample ID: Surr TCMX/DCBP 5/50 ppb  
Date Acquired: 08/23/2009 14:33:23 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_TD\_S\_082309  
LIMS File ID: GC16-769-I2

Sample Name: TD0823A

1 of 1



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Sample Name: TD0823A Sample Amount: 1  
Sample ID: Surr TCMX/DCBP 5/50 ppb Dilution: 1  
Date Acquired: 08/23/2009 14:33:23 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:32:44 EDT  
Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_TD\_S\_082309 Current Date: 09/02/2009  
Run Time: 60.0 Minutes Current Time: 01:07:58 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-12

**Peak Results**

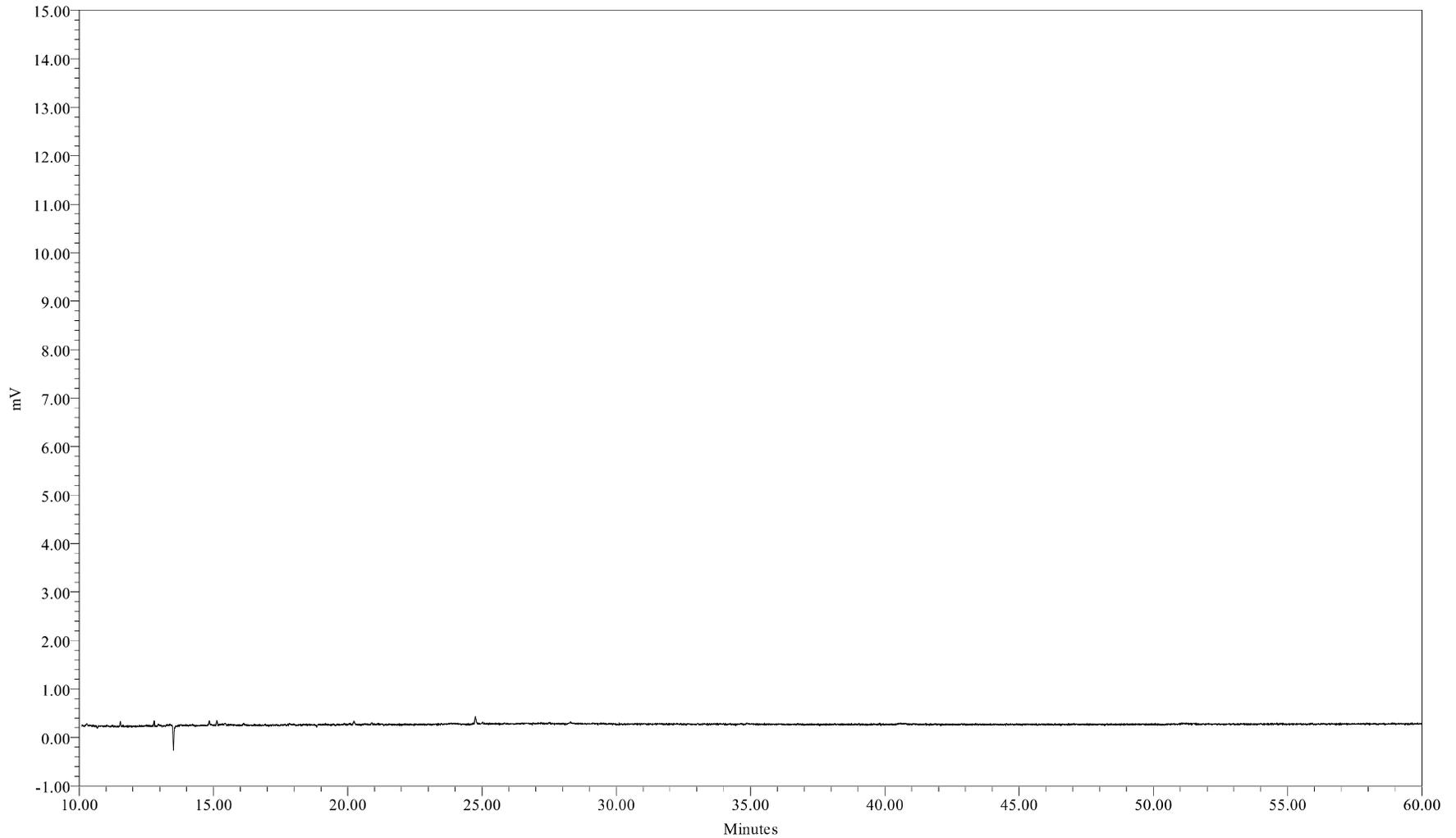
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	TCMX	13.776	37299	5.000	5.000	0.947344
2	I.S. (OCN)	47.022	143157	18.180	18.180	7874.442526
3	DCBP	54.716	358570	50.000	50.000	0.910717



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Sample Name: 090823B04  
Sample ID: HEXANE BLANK  
Date Acquired: 08/23/2009 15:40:42 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSG\_B\_LL1X\_082309  
LIMS File ID: GC16-769-13

Sample Name: 090823B04

1 of 1

**Northeast Analytical, Inc.**  
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: Northeast Analytical, Inc.                      SGD NO: 09090269  
ELAP ID No: 11078  
INSTRUMENT ID: GC16  
GC COLUMN: Agilent DB-1; 30 meter; 0.25 micron phase thickness

Continuing Calibration Standard CCCS0922A

Lab File ID:	<u>GC16-798-3</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>09/22/2009</u>	Calculated Amount:	<u>125 ng/ml</u>
Time:	<u>10:38:25</u>	OCN (I.S.) Peak Area:	<u>171914</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>103</u>

Continuing Calibration Standard CCCS0922B

Lab File ID:	<u>GC16-798-10</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>09/22/2009</u>	Calculated Amount:	<u>126 ng/ml</u>
Time:	<u>18:30:15</u>	OCN (I.S.) Peak Area:	<u>175405</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>105</u>

Lab File ID:	_____	Known Amount:	_____
Date:	_____	Calculated Amount:	_____
Time:	_____	OCN (I.S.) Peak Area:	_____
		% Recovery of I.S. ( 50 - 150 %):	_____

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**122 ng/mL LOW LEVEL STANDARD**

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0922A File ID: GC16-798-3		Continuing Calibration CCCS0922B File ID: GC16-798-10		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.23	-8.60	1.26	-6.30		
37 (104,44)	3.06	+/-15	3.39	10.9	3.41	11.3		
47 (70)	2.42	+/-15	2.42	-0.0955	2.47	2.02		
93 (174,181)	2.28	+/-15	2.37	3.87	2.37	3.97		
102 (180)	4.35	+/-15	4.37	0.478	4.37	0.427		
116 (205)	0.0788	+/-30	0.0738	-6.30	0.0816	3.53		
Total CCCS Conc.	122	+/-15	125	2.36	126	3.06		

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0922A	2030 uV	1015 uV	555 uV
CCCS0922B	2105 uV	1052.5 uV	598 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0922A	2214 uV	738 uV	67 uV
CCCS0922B	2317 uV	772.3 uV	114 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0922A	CCCS0922A File ID: GC16-798-3		CCCS0922B File ID: GC16-798-10		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.79		11.79			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.94		12.93			
4	5 (4,10)	+/-0.07	13.54		13.54			
5	6 (7,9)	+/-0.07	14.41		14.41			
6	7 (6)	+/-0.07	14.72		14.72			
7	8 (5,8)	+/-0.07	14.91		14.91			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.55		15.55			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.29		16.30			
13	14 (15,18)	+/-0.07	16.42		16.42			
14	15 (17)	+/-0.07	16.51		16.51			
15	16 (24,27)	+/-0.07	16.81		16.81			
16	17 (16,32)	+/-0.07	17.06		17.06			
17	19 (23,34,54)	+/-0.07	17.52		17.52			
18	20 (29)	+/-0.07	17.70		17.70			
19	21 (26)	+/-0.07	17.83		17.83			
20	22 (25)	+/-0.07	17.91		17.91			
21	23 (31)	+/-0.07	18.11		18.11			
22	24 (28,50)	+/-0.07	18.16		18.16			
23	25 (20,21,33,53)	+/-0.07	18.52		18.52			
24	26 (22,51)	+/-0.07	18.75		18.75			
25	27 (45)	+/-0.07	18.97		18.98			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.25		19.25			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.55		19.55			
30	32 (43,49)	+/-0.07	19.72		19.72			
31	33 (38,47)	+/-0.07	19.83		19.83			
32	34 (48,75)	+/-0.07	19.89		19.90			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.15		20.12			
35	37 (104,44)	+/-0.07	20.29		20.29			
36	38 (37,42,59)	+/-0.07	20.42		20.42			
37	39 (41,64,71,72)	+/-0.07	20.77		20.77			
38	41 (68,96)	+/-0.07	20.92		20.94			
39	42 (40)	+/-0.07	21.03		21.03			
40	43 (57,103)	+/-0.07	21.28		21.27			
41	44 (58,67,100)	+/-0.07	21.46		21.45			
42	45 (63)	+/-0.07	21.62		21.62			
43	46 (74,94,61)	+/-0.07	21.79		21.79			
44	47 (70)	+/-0.07	21.92		21.92			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	22.04		22.04			
46	49 (55,91,121)	+/-0.07	22.34		22.33			
47	50 (56,60)	+/-0.07	22.64		22.64			
48	51 (84,92,155)	+/-0.07	22.88		22.88			
49	52 (89)	+/-0.07	22.99		22.98			
50	53 (90,101)	+/-0.07	23.14		23.14			
51	54 (79,99,113)	+/-0.07	23.33		23.33			
52	55 (119,150)	+/-0.07	23.61		23.62			
53	56 (78,83,112,108)	+/-0.07	23.71		23.71			
54	57 (97,152,86)	+/-0.07	23.92		23.92			
55	58 (81,87,117,125,115,145)	+/-0.07	24.09		24.10			
56	59 (116,85,111)	+/-0.07	24.25		24.25			

Nea Lims Version : 5.0.0.0

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0922A	CCCS0922A File ID: GC16-798-3		CCCS0922B File ID: GC16-798-10		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	24.37		24.37			
58	61 (77,110,148)	+/-0.07	24.50		24.50			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.87		24.87			
61	64 (151)	+/-0.07	25.17		25.17			
62	65 (124,135)	+/-0.07	25.30		25.30			
63	66 (144)	+/-0.07	25.37		25.36			
64	67 (107,109,147)	+/-0.07	25.44		25.44			
65	68 (123)	+/-0.07	25.52		25.53			
66	69 (106,118,139,149)	+/-0.07	25.62		25.62			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	26.03		26.03			
69	72 (122,131,133,142)	+/-0.07	26.23		26.23			
70	73 (146,165,188)	+/-0.07	26.52		26.52			
71	74 (105,132,161)	+/-0.07	26.66		26.66			
72	75 (153)	+/-0.07	26.81		26.81			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.35		27.35			
75	78 (179)	+/-0.07	27.42		27.42			
76	79 (137)	+/-0.07	27.63		27.65			
77	80 (130,176)	+/-0.07	27.79		27.79			
78	82 (138,163,164)	+/-0.07	28.02		28.02			
79	83 (158,160,186)	+/-0.07	28.20		28.21			
80	84 (126,129)	+/-0.07	28.40		28.40			
81	85 (166,178)	+/-0.07	28.76		28.76			
82	87 (175,159)	+/-0.07	29.06		29.06			
83	88 (182,187)	+/-0.07	29.22		29.21			
84	89 (128,162)	+/-0.07	29.32		29.33			
85	90 (183)	+/-0.07	29.53		29.52			
86	91 (167)	+/-0.07	29.80		29.78			
87	92 (185)	+/-0.07	30.14		30.14			
88	93 (174,181)	+/-0.07	30.52		30.52			
89	94 (177)	+/-0.07	30.79		30.80			
90	95 (156,171)	+/-0.07	31.11		31.10			
91	96 (157,202)	+/-0.07	31.36		31.37			
92	98 (173)	+/-0.07	31.54		31.53			
93	99 (201)	+/-0.07	31.92		31.92			
94	100 (172,204)	+/-0.07	32.18		32.17			
95	101 (192,197)	+/-0.07	32.49		32.46			
96	102 (180)	+/-0.07	32.66		32.66			
97	103 (193)	+/-0.07	32.91		32.91			
98	104 (191)	+/-0.07	33.21		33.23			
99	105 (200,169)	+/-0.07	33.58		33.58			
100	106 (170)	+/-0.07	34.75		34.76			
101	107 (190)	+/-0.07	35.04		35.03			
102	108 (198)	+/-0.07	35.91		35.92			
103	109 (199)	+/-0.07	36.15		36.15			
104	110 (196,203)	+/-0.07	36.70		36.70			
105	111 (189)	+/-0.07	37.92		37.89			
106	112 (195)	+/-0.07	39.46		39.47			
107	113 (208)	+/-0.07	39.99		39.99			
108	114 (207)	+/-0.07	40.98		40.98			
109	115 (194)	+/-0.07	42.40		42.40			
110	116 (205)	+/-0.07	43.31		43.33			
111	117 (206)	+/-0.07	48.54		48.55			
112	118 (209)	+/-0.07	54.73		54.75			

Nea Lims Version : 5.0.0.0

# Standards Summary Tables (GC-24)



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Sample Set Name: GC24\_CC\_090509  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 9/5/2009 2:45:04 AM EDT  
Current Date: 9/18/2009  
Report Name: CSGB\_SumRpt\_OCNArea

**ICAL OCN Area Summary Report**

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0905A	ICAL 6.25 ng/mL	9/5/2009 5:01:29 AM EDT	174096
2	ICAL0905B	ICAL 12.5 ng/mL	9/5/2009 6:06:56 AM EDT	174435
3	ICAL0905C	ICAL 125 ng/mL	9/5/2009 7:12:23 AM EDT	160555
4	ICAL0905D	ICAL 314 ng/mL	9/5/2009 8:17:51 AM EDT	175915
5	ICAL0905E	ICAL 627 ng/mL	9/5/2009 9:23:21 AM EDT	173433
Mean				171687



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System Name:	Instrument_24	Date Calibrated:	9/12/2009 3:19:39 PM EDT
Sample Set Name:	GC24_CC_090509	Method Report:	CSGB CCSum by RF
Sample Set Date:	9/5/2009 2:45:04 AM EDT	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509		

**Calibration Component Summary Table  
Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)	12 (11)
1	ICAL0905A	0.025569		0.010102	0.040472	0.453784	0.159906	0.118078				
2	ICAL0905B	0.021466		0.008768	0.056491	0.428990	0.184904	0.114795		0.228956		
3	ICAL0905C	0.023108		0.010355	0.052904	0.378487	0.178973	0.097988		0.285774		
4	ICAL0905D	0.021570		0.011407	0.053125	0.355688	0.169514	0.091267		0.289225		
5	ICAL0905E				0.051459					0.273195		
6	SC0905A		0.002451						0.133518		0.501489	0.057030
Mean		0.023	0.002	0.010	0.051	0.404	0.173	0.106	0.134	0.269	0.501	0.057
Std. Dev.		0.002		0.001	0.006	0.045	0.011	0.013		0.028		
% RSD		8.35		10.68	12.00	11.14	6.33	12.28		10.31		

**Calibration Component Summary Table  
Component Summary For RF**

	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)	24 (28,50)
1		0.304780	0.177111	0.534430	0.276122			0.346934	0.479575	0.475944	0.588608
2	0.250106	0.318385	0.201857	0.408503	0.279453		0.491689	0.342196	0.456559	0.454046	0.564159
3	0.221933	0.281233	0.189829	0.458770	0.264068		0.428643	0.318917	0.443499	0.374251	0.507807
4	0.238235	0.264584	0.169207	0.491513	0.245864		0.407619	0.316625	0.449445	0.369187	0.455761
5				0.447443							
6						0.304293					
Mean	0.237	0.292	0.185	0.468	0.266	0.304	0.443	0.331	0.457	0.418	0.529
Std. Dev.	0.014	0.024	0.014	0.047	0.015		0.044	0.016	0.016	0.055	0.059
% RSD	5.97	8.21	7.78	10.14	5.70		9.88	4.72	3.46	13.06	11.24

**Calibration Component Summary Table  
Component Summary For RF**

	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)	34 (48,75)	35 (62,65)
1	0.384620	0.385273	0.517646		0.297911		0.316137	0.540147	0.971816	0.572753	
2	0.377401	0.355032	0.446600		0.321612		0.325482	0.596100	1.051767	0.622778	
3	0.353874	0.338700	0.381422		0.337993		0.288623	0.570479	0.814897	0.611872	
4	0.340319	0.328576	0.378985		0.332919		0.265534	0.529619	0.741216	0.563862	
5											
6				0.242069		0.231103					0.608916
Mean	0.364	0.352	0.431	0.242	0.323	0.231	0.299	0.559	0.895	0.593	0.609
Std. Dev.	0.021	0.025	0.066		0.018		0.027	0.030	0.142	0.029	

**Calibration Component Summary Table**

**Component Summary For RF**

	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)	34 (48,75)	35 (62,65)
% RSD	5.65	7.04	15.22		5.53		9.11	5.39	15.87	4.87	

**Calibration Component Summary Table**

**Component Summary For RF**

	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)	45 (63)	46 (74,94,61)
1		0.596513	0.388614	0.661969		0.442060			0.595151	0.887465
2		0.591854	0.360980	0.616187		0.448684		0.661124	0.603714	0.931292
3		0.429660	0.375160	0.570982		0.483803		0.595017	0.604322	0.825838
4		0.410598	0.344798	0.532879		0.467420		0.610523	0.603235	0.780757
5										
6	0.232451				0.329906		0.463251			
Mean	0.232	0.507	0.367	0.596	0.330	0.460	0.463	0.622	0.602	0.856
Std. Dev.		0.101	0.019	0.056		0.019		0.035	0.004	0.066
% RSD		19.88	5.12	9.38		4.10		5.56	0.72	7.75

**Calibration Component Summary Table**

**Component Summary For RF**

	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)	53 (90,101)	54 (79,99,113)	
1	0.778148		0.530585	0.392016	0.758692	0.332716		0.696036	0.883810
2	0.778764		0.523424	0.457108	0.736834	0.277144	0.540534	0.679344	0.929468
3	0.677720		0.458434	0.520488	0.677229	0.271733	0.528638	0.582795	0.895937
4	0.622526		0.420500	0.533713	0.640370	0.253954	0.537245	0.535419	0.839469
5									
6									
Mean	0.714		0.483	0.476	0.703	0.284	0.535	0.623	0.887
Std. Dev.	0.077		0.053	0.065	0.054	0.034	0.006	0.077	0.037
% RSD	10.84		10.96	13.68	7.72	11.99	1.15	12.35	4.19

**Calibration Component Summary Table**

**Component Summary For RF**

	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)	60 (120,136)	61 (77,110,148)	
1			0.781065		0.704172	0.711822	0.433030	0.657727
2	1.028846	0.459555	0.653509		0.605329	0.778595	0.406826	0.649250
3	1.062946	0.454932	0.756591		0.650077	0.777385	0.458784	0.640450
4	1.312314	0.509624	0.716784		0.586103	0.760743	0.431303	0.599532
5								
6								
Mean	1.135	0.475	0.727		0.636	0.757	0.432	0.637
Std. Dev.	0.155	0.030	0.056		0.053	0.031	0.021	0.026
% RSD	13.64	6.39	7.66		8.25	4.13	4.91	4.05

**Calibration Component Summary Table**

**Component Summary For RF**

	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)	69 (106,118,139,149)	70 (140)
1		0.967847	0.721703	0.819231	0.379426			0.811535	
2		0.860089	0.710590	1.082213	0.404982	0.600115		0.850635	

**Calibration Component Summary Table**

**Component Summary For RF**

	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)	69 (106,118,139,149)	70 (140)
3		0.792043	0.631216	1.013167	0.417718	0.553335		0.718080	
4		0.728780	0.591776	0.988978	0.404397	0.637067		0.654409	
5									
6	0.547924						0.633456		0.645169
Mean	0.548	0.837	0.664	0.976	0.402	0.597	0.633	0.759	0.645
Std. Dev.		0.102	0.063	0.112	0.016	0.042		0.089	
% RSD		12.22	9.44	11.44	3.99	7.03		11.73	

**Calibration Component Summary Table**

**Component Summary For RF**

	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)	76 (127,168,184)	77 (141)	78 (179)
1	0.711167		0.872718	0.943815	1.001140		0.574647	0.883157
2	0.603808	1.342899	0.707060	0.937875	1.019248		0.539479	0.797252
3	0.657953	0.948089	0.759780	0.914564	0.890566		0.523307	0.698046
4	0.662912	1.060512	0.717144	0.865106	0.794931		0.495873	0.616298
5								
6						0.554248		
Mean	0.659	1.117	0.764	0.915	0.926	0.554	0.533	0.749
Std. Dev.	0.044	0.203	0.076	0.036	0.105		0.033	0.116
% RSD	6.66	18.21	9.93	3.91	11.28		6.17	15.53

**Calibration Component Summary Table**

**Component Summary For RF**

	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)	87 (175,159)	88 (182,187)	89 (128,162)
1		1.326009	0.968253	0.976076		0.514119		0.988544	
2	0.754952	1.387807	0.933570	0.659597	2.208340	0.486767	0.396278	0.958836	1.405179
3	0.684324	1.462045	0.819064	0.919256	1.995557	0.439645	0.461927	0.800313	1.353594
4	0.562287	1.325956	0.752744	0.877758	2.111957	0.409011	0.464309	0.729096	1.207982
5									
6									
Mean	0.667	1.375	0.868	0.858	2.105	0.462	0.441	0.869	1.322
Std. Dev.	0.097	0.065	0.100	0.138	0.107	0.047	0.039	0.125	0.102
% RSD	14.61	4.70	11.52	16.13	5.06	10.17	8.76	14.35	7.73

**Calibration Component Summary Table**

**Component Summary For RF**

	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)	98 (173)	99 (201)	100 (172,204)
1	0.820158		1.073326	1.051849	0.948964	0.757672	4.573081		0.836681	0.486343
2	0.810613	0.550457	1.113177	0.900951	0.790533	0.717422	5.155113	0.850962	0.725599	0.702080
3	0.780816	0.611216	1.129074	0.778793	0.701796	0.734305	5.373261	0.829099	0.719811	0.679006
4	0.725598	0.715139	1.084920	0.725804	0.659618	0.724927	5.284116	1.024078	0.683179	0.667116
5										
6										
Mean	0.784	0.626	1.100	0.864	0.775	0.734	5.096	0.901	0.741	0.634
Std. Dev.	0.043	0.083	0.026	0.145	0.128	0.017	0.360	0.107	0.066	0.099

**Calibration Component Summary Table**

**Component Summary For RF**

	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)	98 (173)	99 (201)	100 (172,204)
% RSD	5.43	13.31	2.32	16.77	16.52	2.38	7.07	11.85	8.94	15.67

**Calibration Component Summary Table**

**Component Summary For RF**

	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)	108 (198)	109 (199)	110 (196,203)	111 (189)
1		1.185172	0.778985		0.942281	1.691920	1.278822		0.621500	0.717371	
2	0.639871	1.122133	0.744579	0.541056	0.852933	1.774319	1.358312	1.318045	0.629518	0.710726	1.056137
3	0.588133	0.923145	0.798001	0.716184	0.807111	1.434624	1.271034	1.271500	0.562202	0.608427	1.060327
4	0.623781	0.837233	0.767223	0.742400	0.802791	1.340599	1.198131	1.113500	0.513124	0.565648	1.167741
5											
6											
Mean	0.617	1.017	0.772	0.667	0.851	1.560	1.277	1.234	0.582	0.651	1.095
Std. Dev.	0.026	0.164	0.022	0.109	0.065	0.206	0.065	0.107	0.055	0.075	0.063
% RSD	4.29	16.10	2.90	16.42	7.61	13.20	5.13	8.69	9.39	11.59	5.78

**Calibration Component Summary Table**

**Component Summary For RF**

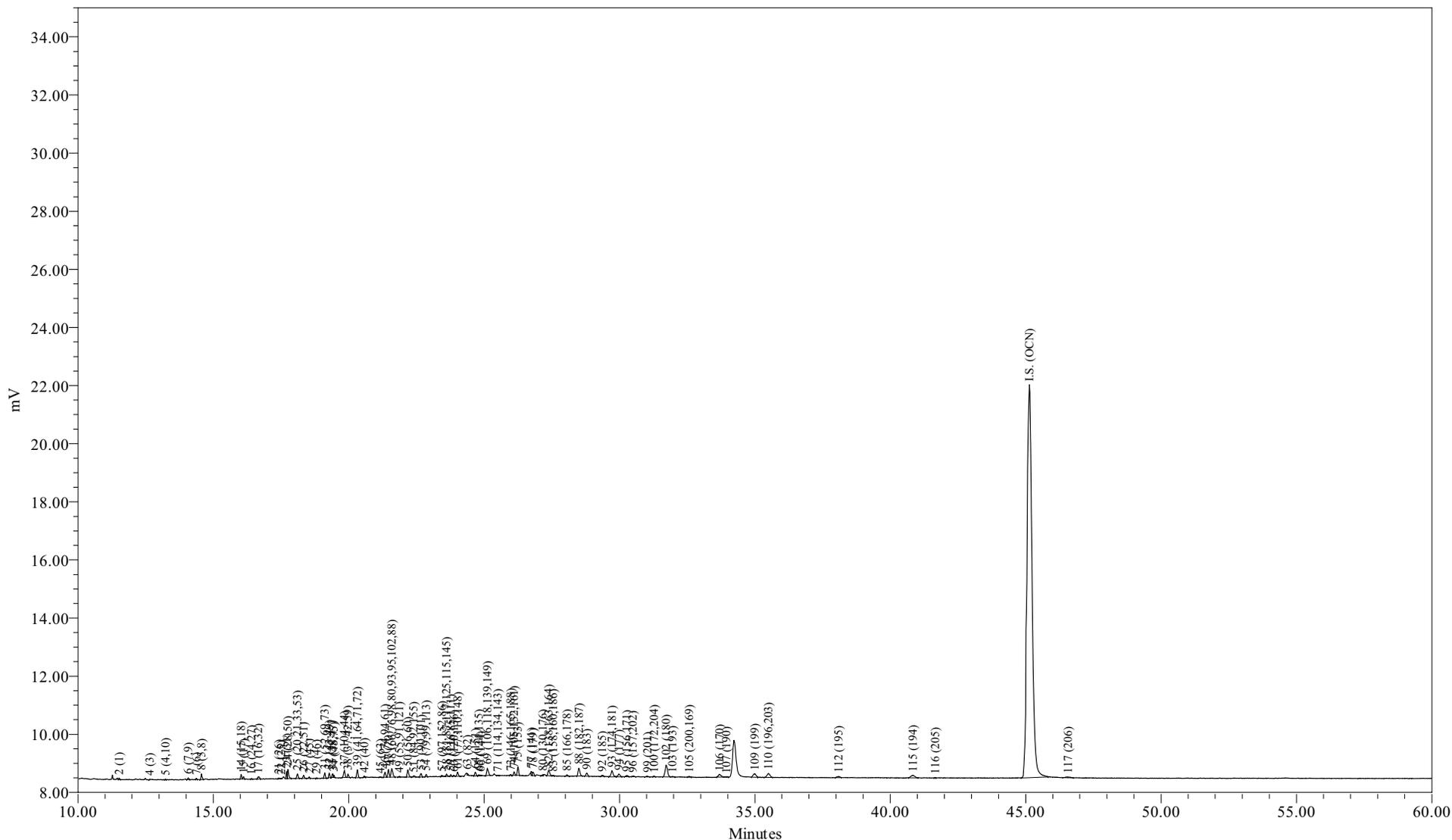
	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1	1.567269			1.452409	0.923063	1.211851	
2	1.512664	0.568471	1.312363	1.424863	0.920296	1.404364	1.246800
3	1.689191	0.625344	1.166917	1.338972	0.946775	1.256191	1.317078
4	1.593227	0.611808	1.158538	1.272350	0.990884	1.255595	1.087888
5							
6							
Mean	1.591	0.602	1.213	1.372	0.945	1.282	1.217
Std. Dev.	0.074	0.030	0.086	0.082	0.033	0.084	0.117
% RSD	4.64	4.94	7.13	5.99	3.46	6.57	9.65



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: ICAL0905A  
Sample ID: ICAL 6.25 ng/mL  
Date Acquired: 9/5/2009 5:01:29 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-3



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com

Sample Name: ICAL0905A Sample Amount: 1  
Sample ID: ICAL 6.25 ng/mL Dilution: 1  
Date Acquired: 9/5/2009 5:01:29 AM EDT Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 9/12/2009 3:19:06 PM EDT  
Sample Set Name: GC24\_CC\_090509 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: CSGB\_LL1X\_090509 Current Date: 9/18/2009  
Run Time: 60.0 Minutes Current Time: 9:54:12 AM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-163-3

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.518	107	0.439	0.439	0.025569
2	3 (2)	12.517				
3	4 (3)	12.655	25	0.256	0.256	0.010102
4	5 (4,10)	13.238	48	0.124	0.124	0.040472
5	6 (7,9)	14.074	191	0.044	0.044	0.453784
6	7 (6)	14.380	106	0.069	0.069	0.159906
7	8 (5,8)	14.563	579	0.512	0.512	0.118078
8	9 (14)	15.113				
9	10 (19)	15.177				
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.921				
13	14 (15,18)	16.027	395	0.135	0.135	0.304780
14	15 (17)	16.115	229	0.135	0.135	0.177111
15	16 (24,27)	16.414	49	0.009	0.009	0.534430
16	17 (16,32)	16.660	377	0.143	0.143	0.276122
17	19 (23,34,54)	17.114				
18	20 (29)	17.294				
19	21 (26)	17.422	87	0.026	0.026	0.346934
20	22 (25)	17.511	54	0.012	0.012	0.479575
21	23 (31)	17.712	687	0.151	0.151	0.475944
22	24 (28,50)	17.756	1087	0.193	0.193	0.588608
23	25 (20,21,33,53)	18.109	535	0.145	0.145	0.384620
24	26 (22,51)	18.336	391	0.106	0.106	0.385273
25	27 (45)	18.548	161	0.033	0.033	0.517646
26	28 (36)	18.694				
27	29 (46)	18.813	42	0.015	0.015	0.297911
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.115	528	0.174	0.174	0.316137
30	32 (43,49)	19.281	435	0.084	0.084	0.540147
31	33 (38,47)	19.408	340	0.037	0.037	0.971816
32	34 (48,75)	19.450	200	0.037	0.037	0.572753
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.842	898	0.157	0.157	0.596513
36	38 (37,42,59)	19.971	354	0.095	0.095	0.388614
37	39 (41,64,71,72)	20.317	950	0.150	0.150	0.661969
38	41 (68,96)	20.471				
39	42 (40)	20.579	145	0.034	0.034	0.442060
40	43 (57,103)	20.825				
41	44 (58,67,100)	21.006				
42	45 (63)	21.177	44	0.008	0.008	0.595151
43	46 (74,94,61)	21.340	590	0.069	0.069	0.887465
44	47 (70)	21.470	926	0.124	0.124	0.778148
45	48 (66,76,98,80,93,95,102,88)	21.590	1337	0.263	0.263	0.530585
46	49 (55,91,121)	21.868	70	0.019	0.019	0.392016
47	50 (56,60)	22.186	929	0.128	0.128	0.758692
48	51 (84,92,155)	22.399	210	0.066	0.066	0.332716
49	52 (89)	22.507				
50	53 (90,101)	22.677	438	0.066	0.066	0.696036
51	54 (79,99,113)	22.864	229	0.027	0.027	0.883810
52	55 (119,150)	23.134				
53	56 (78,83,112,108)	23.229				
54	57 (97,152,86)	23.442	153	0.020	0.020	0.781065
55	58 (81,87,117,125,115,145)	23.617	286	0.042	0.042	0.704172
56	59 (116,85,111)	23.769	174	0.026	0.026	0.711822
57	60 (120,136)	23.889	114	0.027	0.027	0.433030
58	61 (77,110,148)	24.024	490	0.078	0.078	0.657727
59	62 (154)	24.292				
60	63 (82)	24.376	149	0.016	0.016	0.967847
61	64 (151)	24.678	429	0.062	0.062	0.721703
62	65 (124,135)	24.810	83	0.011	0.011	0.819231
63	66 (144)	24.874	80	0.022	0.022	0.379426
64	67 (107,109,147)	24.951				
65	68 (123)	25.036				
66	69 (106,118,139,149)	25.119	1136	0.146	0.146	0.811535
67	70 (140)	25.235				
68	71 (114,134,143)	25.507	50	0.007	0.007	0.711167
69	72 (122,131,133,142)	25.713				
70	73 (146,165,188)	25.985	119	0.014	0.014	0.872718

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.108	448	0.050	0.050	0.943815
72	75 (153)	26.253	1032	0.108	0.108	1.001140
73	76 (127,168,184)	26.366				
74	77 (141)	26.742	342	0.062	0.062	0.574647
75	78 (179)	26.810	451	0.053	0.053	0.883157
76	79 (137)	27.020				
77	80 (130,176)	27.171	121	0.009	0.009	1.326009
78	82 (138,163,164)	27.382	915	0.099	0.099	0.968253
79	83 (158,160,186)	27.553	85	0.009	0.009	0.976076
80	84 (126,129)	27.736				
81	85 (166,178)	28.062	198	0.040	0.040	0.514119
82	87 (175,159)	28.360				
83	88 (182,187)	28.503	1246	0.132	0.132	0.988544
84	89 (128,162)	28.621				
85	90 (183)	28.799	488	0.062	0.062	0.820158
86	91 (167)	29.046				
87	92 (185)	29.359	177	0.017	0.017	1.073326
88	93 (174,181)	29.721	1178	0.117	0.117	1.051849
89	94 (177)	29.974	565	0.062	0.062	0.948964
90	95 (156,171)	30.269	210	0.029	0.029	0.757672
91	96 (157,202)	30.494	106	0.002	0.002	4.573081
92	98 (173)	30.680				
93	99 (201)	31.034	114	0.014	0.014	0.836681
94	100 (172,204)	31.279	95	0.020	0.020	0.486343
95	101 (192,197)	31.542				
96	102 (180)	31.729	2530	0.223	0.223	1.185172
97	103 (193)	31.958	115	0.015	0.015	0.778985
98	104 (191)	32.250				
99	105 (200,169)	32.579	142	0.016	0.016	0.942281
100	106 (170)	33.695	758	0.047	0.047	1.691920
101	107 (190)	33.953	188	0.015	0.015	1.278822
102	108 (198)	34.755				
103	109 (199)	34.995	914	0.154	0.154	0.621500
104	110 (196,203)	35.498	1080	0.157	0.157	0.717371
105	111 (189)	36.642				
106	112 (195)	38.095	303	0.020	0.020	1.567269
107	113 (208)	38.594				
108	114 (207)	39.486				
109	115 (194)	40.837	915	0.066	0.066	1.452409
110	116 (205)	41.665	36	0.004	0.004	0.923063
111	I.S. (OCN)	45.143	174096	18.180	18.180	9576.225943
112	117 (206)	46.566	288	0.025	0.025	1.211851

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.297				





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Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name:	ICAL0905B	Sample Amount:	1
Sample ID:	ICAL 12.5 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 6:06:56 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/12/2009 3:19:19 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:17 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-4

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.519	181	0.877	0.877	0.021466
2	3 (2)	12.517				
3	4 (3)	12.650	43	0.512	0.512	0.008768
4	5 (4,10)	13.224	135	0.249	0.249	0.056491
5	6 (7,9)	14.071	361	0.088	0.088	0.428990
6	7 (6)	14.375	246	0.139	0.139	0.184904
7	8 (5,8)	14.563	1127	1.023	1.023	0.114795
8	9 (14)	15.113				
9	10 (19)	15.203	45	0.020	0.020	0.228956
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.942	47	0.020	0.020	0.250106
13	14 (15,18)	16.027	826	0.270	0.270	0.318385
14	15 (17)	16.114	524	0.270	0.270	0.201857
15	16 (24,27)	16.409	74	0.019	0.019	0.408503
16	17 (16,32)	16.685	764	0.285	0.285	0.279453
17	19 (23,34,54)	17.114				
18	20 (29)	17.277	18	0.004	0.004	0.491689
19	21 (26)	17.435	173	0.053	0.053	0.342196
20	22 (25)	17.514	102	0.023	0.023	0.456559
21	23 (31)	17.705	1313	0.301	0.301	0.454046
22	24 (28,50)	17.754	2088	0.386	0.386	0.564159
23	25 (20,21,33,53)	18.104	1051	0.290	0.290	0.377401
24	26 (22,51)	18.335	722	0.212	0.212	0.355032
25	27 (45)	18.543	279	0.065	0.065	0.446600
26	28 (36)	18.694				
27	29 (46)	18.806	90	0.029	0.029	0.321612
28	30 (39)	18.958				

**Peak Results**

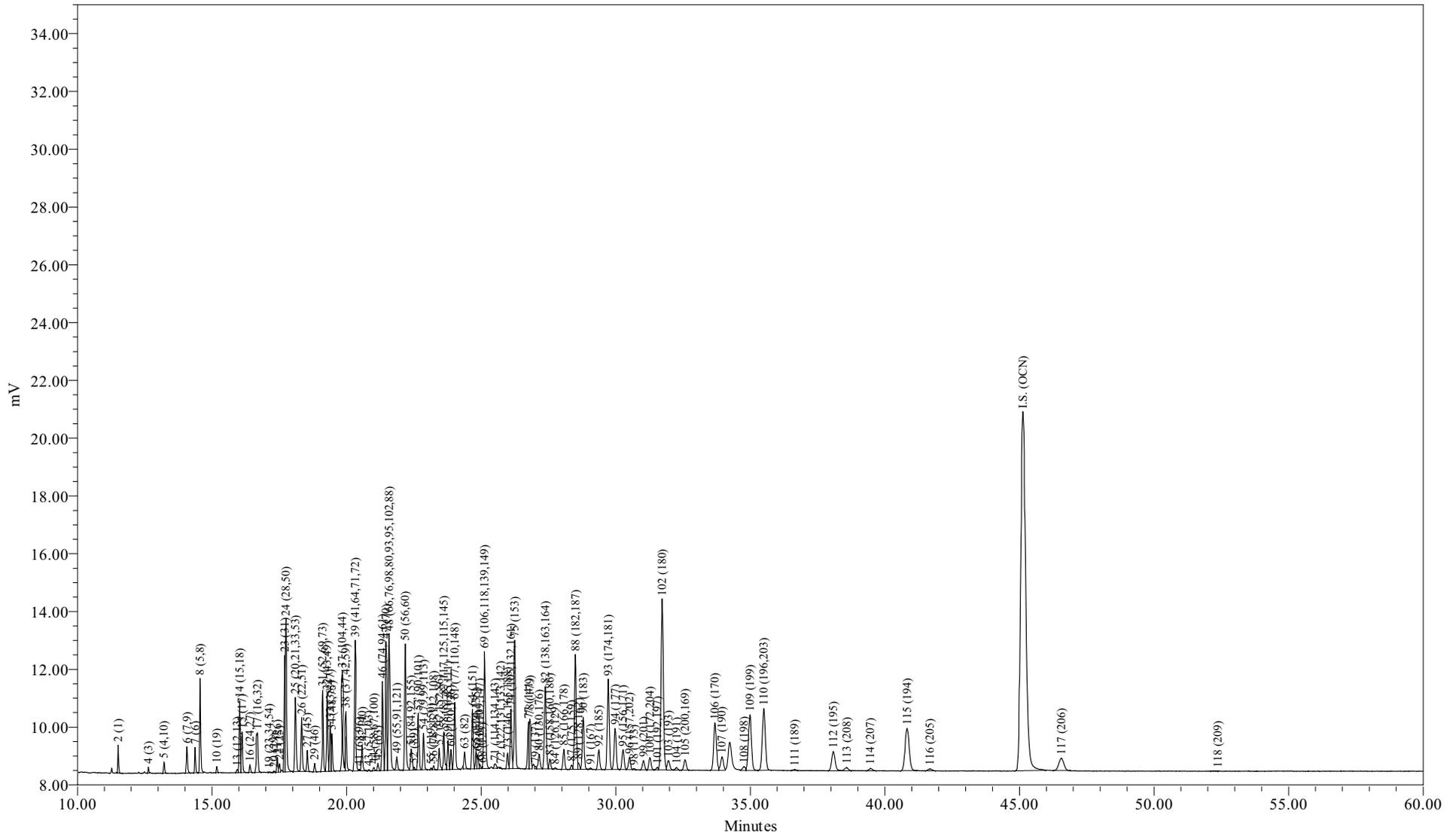
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.111	1089	0.349	0.349	0.325482
30	32 (43,49)	19.280	962	0.168	0.168	0.596100
31	33 (38,47)	19.401	738	0.073	0.073	1.051767
32	34 (48,75)	19.450	437	0.073	0.073	0.622778
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.841	1785	0.314	0.314	0.591854
36	38 (37,42,59)	19.973	658	0.190	0.190	0.360980
37	39 (41,64,71,72)	20.317	1772	0.300	0.300	0.616187
38	41 (68,96)	20.471				
39	42 (40)	20.576	296	0.069	0.069	0.448684
40	43 (57,103)	20.837	13			
41	44 (58,67,100)	21.012	51	0.008	0.008	0.661124
42	45 (63)	21.157	89	0.015	0.015	0.603714
43	46 (74,94,61)	21.335	1241	0.139	0.139	0.931292
44	47 (70)	21.466	1857	0.249	0.249	0.778764
45	48 (66,76,98,80,93,95,102,88)	21.585	2643	0.526	0.526	0.523424
46	49 (55,91,121)	21.860	164	0.037	0.037	0.457108
47	50 (56,60)	22.186	1809	0.256	0.256	0.736834
48	51 (84,92,155)	22.401	350	0.132	0.132	0.277144
49	52 (89)	22.487	38	0.007	0.007	0.540534
50	53 (90,101)	22.668	858	0.132	0.132	0.679344
51	54 (79,99,113)	22.861	482	0.054	0.054	0.929468
52	55 (119,150)	23.146	20	0.002	0.002	1.028846
53	56 (78,83,112,108)	23.248	48	0.011	0.011	0.459555
54	57 (97,152,86)	23.451	257	0.041	0.041	0.653509
55	58 (81,87,117,125,115,145)	23.620	492	0.085	0.085	0.605329
56	59 (116,85,111)	23.770	382	0.051	0.051	0.778595
57	60 (120,136)	23.875	214	0.055	0.055	0.406826
58	61 (77,110,148)	24.023	970	0.156	0.156	0.649250
59	62 (154)	24.292				
60	63 (82)	24.374	265	0.032	0.032	0.860089
61	64 (151)	24.678	847	0.124	0.124	0.710590
62	65 (124,135)	24.815	220	0.021	0.021	1.082213
63	66 (144)	24.876	170	0.044	0.044	0.404982
64	67 (107,109,147)	24.951	55	0.009	0.009	0.600115
65	68 (123)	24.975	39			
66	69 (106,118,139,149)	25.120	2386	0.292	0.292	0.850635
67	70 (140)	25.235				
68	71 (114,134,143)	25.499	86	0.015	0.015	0.603808
69	72 (122,131,133,142)	25.680	27	0.002	0.002	1.342899
70	73 (146,165,188)	25.977	193	0.029	0.029	0.707060

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.111	891	0.099	0.099	0.937875
72	75 (153)	26.252	2105	0.215	0.215	1.019248
73	76 (127,168,184)	26.366				
74	77 (141)	26.755	643	0.124	0.124	0.539479
75	78 (179)	26.811	816	0.107	0.107	0.797252
76	79 (137)	27.024	40	0.005	0.005	0.754952
77	80 (130,176)	27.175	253	0.019	0.019	1.387807
78	82 (138,163,164)	27.389	1768	0.197	0.197	0.933570
79	83 (158,160,186)	27.555	116	0.018	0.018	0.659597
80	84 (126,129)	27.757	20	0.001	0.001	2.208340
81	85 (166,178)	28.074	375	0.080	0.080	0.486767
82	87 (175,159)	28.353	56	0.015	0.015	0.396278
83	88 (182,187)	28.506	2421	0.263	0.263	0.958836
84	89 (128,162)	28.601	99	0.007	0.007	1.405179
85	90 (183)	28.794	966	0.124	0.124	0.810613
86	91 (167)	29.049	19	0.004	0.004	0.550457
87	92 (185)	29.376	367	0.034	0.034	1.113177
88	93 (174,181)	29.720	2022	0.234	0.234	0.900951
89	94 (177)	29.975	943	0.124	0.124	0.790533
90	95 (156,171)	30.263	398	0.058	0.058	0.717422
91	96 (157,202)	30.505	239	0.005	0.005	5.155113
92	98 (173)	30.705	23	0.003	0.003	0.850962
93	99 (201)	31.040	199	0.029	0.029	0.725599
94	100 (172,204)	31.259	276	0.041	0.041	0.702080
95	101 (192,197)	31.548	49	0.008	0.008	0.639871
96	102 (180)	31.728	4801	0.446	0.446	1.122133
97	103 (193)	31.951	219	0.031	0.031	0.744579
98	104 (191)	32.275	46	0.009	0.009	0.541056
99	105 (200,169)	32.576	257	0.031	0.031	0.852933
100	106 (170)	33.706	1593	0.094	0.094	1.774319
101	107 (190)	33.962	400	0.031	0.031	1.358312
102	108 (198)	34.774	111	0.009	0.009	1.318045
103	109 (199)	34.983	1854	0.307	0.307	0.629518
104	110 (196,203)	35.503	2143	0.314	0.314	0.710726
105	111 (189)	36.653	30	0.003	0.003	1.056137
106	112 (195)	38.091	587	0.040	0.040	1.512664
107	113 (208)	38.600	98	0.018	0.018	0.568471
108	114 (207)	39.461	86	0.007	0.007	1.312363
109	115 (194)	40.829	1799	0.132	0.132	1.424863
110	116 (205)	41.631	71	0.008	0.008	0.920296
111	I.S. (OCN)	45.134	174435	18.180	18.180	9594.894062
112	117 (206)	46.584	670	0.050	0.050	1.404364

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.291	11	0.001	0.001	1.246800



Sample Name: ICAL0905C  
Sample ID: ICAL 125 ng/mL  
Date Acquired: 9/5/2009 7:12:23 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-5



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Sample Name:	ICAL0905C	Sample Amount:	1
Sample ID:	ICAL 125 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 7:12:23 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/12/2009 3:19:26 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:24 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-5

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.515	1790	8.771	8.771	0.023108
2	3 (2)	12.517				
3	4 (3)	12.633	468	5.117	5.117	0.010355
4	5 (4,10)	13.214	1161	2.485	2.485	0.052904
5	6 (7,9)	14.069	2932	0.877	0.877	0.378487
6	7 (6)	14.372	2195	1.389	1.389	0.178973
7	8 (5,8)	14.557	8856	10.233	10.233	0.097988
8	9 (14)	15.113				
9	10 (19)	15.178	517	0.205	0.205	0.285774
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.936	382	0.195	0.195	0.221933
13	14 (15,18)	16.026	6717	2.704	2.704	0.281233
14	15 (17)	16.112	4534	2.704	2.704	0.189829
15	16 (24,27)	16.410	770	0.190	0.190	0.458770
16	17 (16,32)	16.687	6648	2.851	2.851	0.264068
17	19 (23,34,54)	17.122	84			
18	20 (29)	17.296	147	0.039	0.039	0.428643
19	21 (26)	17.426	1482	0.526	0.526	0.318917
20	22 (25)	17.506	916	0.234	0.234	0.443499
21	23 (31)	17.700	9961	3.014	3.014	0.374251
22	24 (28,50)	17.748	17298	3.857	3.857	0.507807
23	25 (20,21,33,53)	18.098	9073	2.903	2.903	0.353874
24	26 (22,51)	18.330	6341	2.120	2.120	0.338700
25	27 (45)	18.542	2191	0.650	0.650	0.381422
26	28 (36)	18.694				
27	29 (46)	18.815	873	0.292	0.292	0.337993
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.112	8887	3.487	3.487	0.288623
30	32 (43,49)	19.279	8470	1.681	1.681	0.570479
31	33 (38,47)	19.393	5261	0.731	0.731	0.814897
32	34 (48,75)	19.453	3950	0.731	0.731	0.611872
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.842	11927	3.143	3.143	0.429660
36	38 (37,42,59)	19.973	6297	1.901	1.901	0.375160
37	39 (41,64,71,72)	20.317	15112	2.997	2.997	0.570982
38	41 (68,96)	20.474	177			
39	42 (40)	20.576	2936	0.687	0.687	0.483803
40	43 (57,103)	20.822	165			
41	44 (58,67,100)	21.014	422	0.080	0.080	0.595017
42	45 (63)	21.164	819	0.154	0.154	0.604322
43	46 (74,94,61)	21.332	10129	1.389	1.389	0.825838
44	47 (70)	21.461	14874	2.485	2.485	0.677720
45	48 (66,76,98,80,93,95,102,88)	21.579	21307	5.263	5.263	0.458434
46	49 (55,91,121)	21.867	1714	0.373	0.373	0.520488
47	50 (56,60)	22.180	15301	2.558	2.558	0.677229
48	51 (84,92,155)	22.400	3157	1.316	1.316	0.271733
49	52 (89)	22.502	341	0.073	0.073	0.528638
50	53 (90,101)	22.668	6772	1.316	1.316	0.582795
51	54 (79,99,113)	22.860	4280	0.541	0.541	0.895937
52	55 (119,150)	23.138	192	0.020	0.020	1.062946
53	56 (78,83,112,108)	23.234	440	0.110	0.110	0.454932
54	57 (97,152,86)	23.442	2735	0.409	0.409	0.756591
55	58 (81,87,117,125,115,145)	23.617	4868	0.848	0.848	0.650077
56	59 (116,85,111)	23.769	3513	0.512	0.512	0.777385
57	60 (120,136)	23.882	2221	0.548	0.548	0.458784
58	61 (77,110,148)	24.020	8806	1.557	1.557	0.640450
59	62 (154)	24.292				
60	63 (82)	24.386	2249	0.322	0.322	0.792043
61	64 (151)	24.678	6927	1.243	1.243	0.631216
62	65 (124,135)	24.812	1897	0.212	0.212	1.013167
63	66 (144)	24.874	1618	0.439	0.439	0.417718
64	67 (107,109,147)	24.950	464	0.095	0.095	0.553335
65	68 (123)	25.047	108			
66	69 (106,118,139,149)	25.122	18542	2.924	2.924	0.718080
67	70 (140)	25.235				
68	71 (114,134,143)	25.510	858	0.148	0.148	0.657953
69	72 (122,131,133,142)	25.726	178	0.021	0.021	0.948089
70	73 (146,165,188)	25.983	1913	0.285	0.285	0.759780

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.106	7999	0.990	0.990	0.914564
72	75 (153)	26.249	16931	2.153	2.153	0.890566
73	76 (127,168,184)	26.366				
74	77 (141)	26.759	5743	1.243	1.243	0.523307
75	78 (179)	26.810	6579	1.067	1.067	0.698046
76	79 (137)	27.017	331	0.055	0.055	0.684324
77	80 (130,176)	27.157	2453	0.190	0.190	1.462045
78	82 (138,163,164)	27.380	14276	1.974	1.974	0.819064
79	83 (158,160,186)	27.555	1483	0.183	0.183	0.919256
80	84 (126,129)	27.753	167	0.009	0.009	1.995557
81	85 (166,178)	28.073	3122	0.804	0.804	0.439645
82	87 (175,159)	28.357	596	0.146	0.146	0.461927
83	88 (182,187)	28.501	18598	2.631	2.631	0.800313
84	89 (128,162)	28.617	874	0.073	0.073	1.353594
85	90 (183)	28.792	8569	1.243	1.243	0.780816
86	91 (167)	29.059	194	0.036	0.036	0.611216
87	92 (185)	29.374	3425	0.343	0.343	1.129074
88	93 (174,181)	29.721	16087	2.339	2.339	0.778793
89	94 (177)	29.979	7701	1.243	1.243	0.701796
90	95 (156,171)	30.270	3745	0.578	0.578	0.734305
91	96 (157,202)	30.509	2291	0.048	0.048	5.373261
92	98 (173)	30.677	203	0.028	0.028	0.829099
93	99 (201)	31.031	1813	0.285	0.285	0.719811
94	100 (172,204)	31.270	2454	0.409	0.409	0.679006
95	101 (192,197)	31.544	418	0.080	0.080	0.588133
96	102 (180)	31.729	36351	4.459	4.459	0.923145
97	103 (193)	31.953	2164	0.307	0.307	0.798001
98	104 (191)	32.261	555	0.088	0.088	0.716184
99	105 (200,169)	32.577	2240	0.314	0.314	0.807111
100	106 (170)	33.681	11854	0.936	0.936	1.434624
101	107 (190)	33.948	3446	0.307	0.307	1.271034
102	108 (198)	34.763	985	0.088	0.088	1.271500
103	109 (199)	34.986	15243	3.070	3.070	0.562202
104	110 (196,203)	35.500	16889	3.143	3.143	0.608427
105	111 (189)	36.652	273	0.029	0.029	1.060327
106	112 (195)	38.084	6029	0.404	0.404	1.689191
107	113 (208)	38.581	997	0.180	0.180	0.625344
108	114 (207)	39.458	701	0.068	0.068	1.166917
109	115 (194)	40.826	15558	1.316	1.316	1.338972
110	116 (205)	41.673	672	0.080	0.080	0.946775
111	I.S. (OCN)	45.126	160555	18.180	18.180	8831.424357
112	117 (206)	46.558	5513	0.497	0.497	1.256191

**Peak Results**

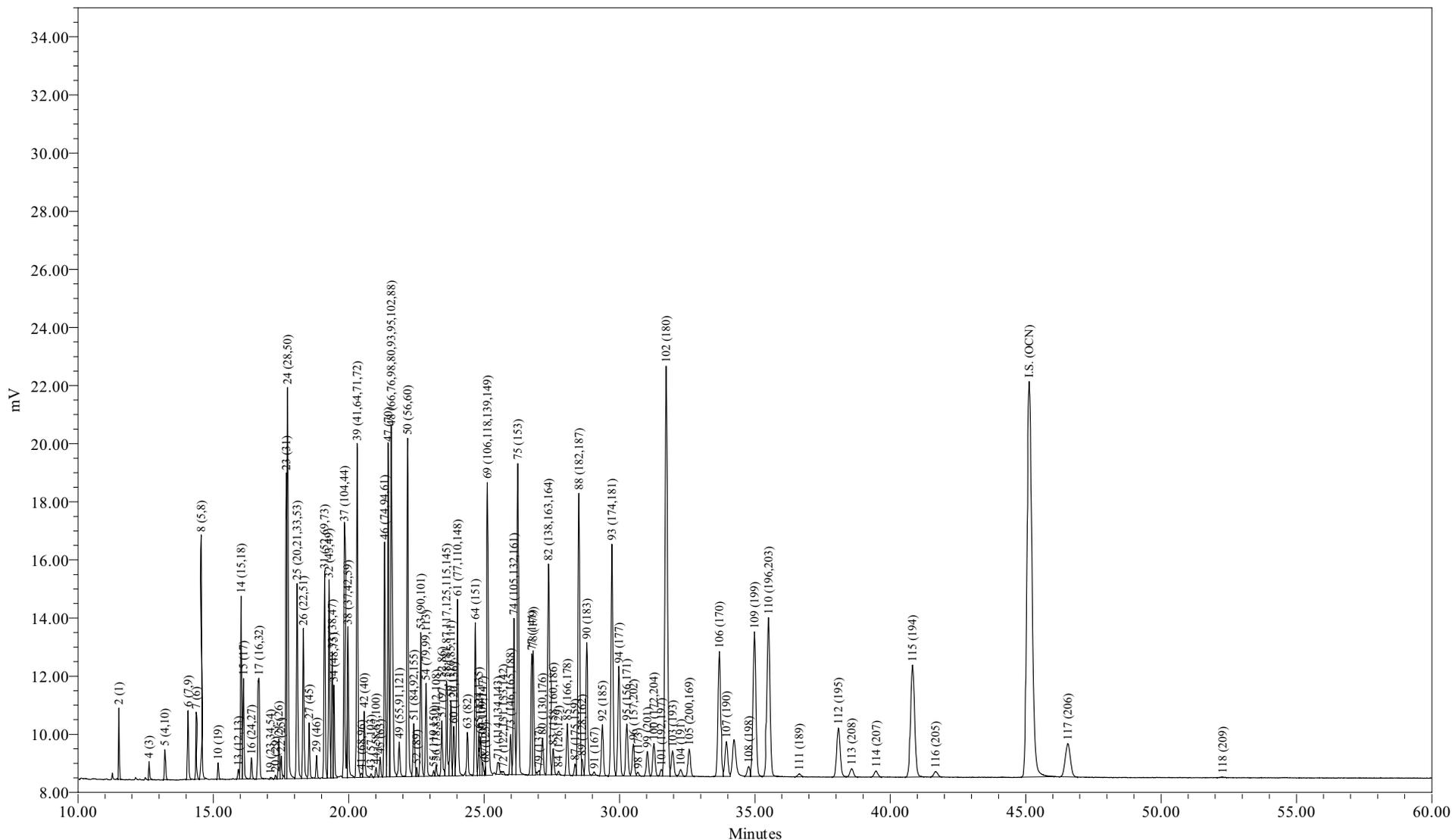
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.373	103	0.009	0.009	1.317078



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Sample Name: ICAL0905D  
Sample ID: ICAL 314 ng/mL  
Date Acquired: 9/5/2009 8:17:51 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-6



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: ICAL0905D Sample Amount: 1  
Sample ID: ICAL 314 ng/mL Dilution: 1  
Date Acquired: 9/5/2009 8:17:51 AM EDT Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 9/12/2009 3:19:28 PM EDT  
Sample Set Name: GC24\_CC\_090509 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: CSGB\_LL1X\_090509 Current Date: 9/18/2009  
Run Time: 60.0 Minutes Current Time: 9:53:31 AM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-163-6

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.513	4577	21.928	21.928	0.021570
2	3 (2)	12.517				
3	4 (3)	12.628	1412	12.792	12.792	0.011407
4	5 (4,10)	13.212	3194	6.213	6.213	0.053125
5	6 (7,9)	14.067	7547	2.193	2.193	0.355688
6	7 (6)	14.369	5695	3.472	3.472	0.169514
7	8 (5,8)	14.554	22593	25.583	25.583	0.091267
8	9 (14)	15.113				
9	10 (19)	15.178	1432	0.512	0.512	0.289225
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.925	1124	0.488	0.488	0.238235
13	14 (15,18)	16.025	17310	6.761	6.761	0.264584
14	15 (17)	16.111	11070	6.761	6.761	0.169207
15	16 (24,27)	16.409	2259	0.475	0.475	0.491513
16	17 (16,32)	16.685	16955	7.127	7.127	0.245864
17	19 (23,34,54)	17.114	267			
18	20 (29)	17.299	383	0.097	0.097	0.407619
19	21 (26)	17.421	4031	1.316	1.316	0.316625
20	22 (25)	17.507	2543	0.585	0.585	0.449445
21	23 (31)	17.696	26915	7.534	7.534	0.369187
22	24 (28,50)	17.743	42526	9.643	9.643	0.455761
23	25 (20,21,33,53)	18.094	23902	7.258	7.258	0.340319
24	26 (22,51)	18.325	16850	5.300	5.300	0.328576
25	27 (45)	18.541	5963	1.626	1.626	0.378985
26	28 (36)	18.694				
27	29 (46)	18.814	2355	0.731	0.731	0.332919
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.110	22396	8.716	8.716	0.265534
30	32 (43,49)	19.277	21539	4.203	4.203	0.529619
31	33 (38,47)	19.391	13108	1.828	1.828	0.741216
32	34 (48,75)	19.453	9972	1.828	1.828	0.563862
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.841	31219	7.858	7.858	0.410598
36	38 (37,42,59)	19.969	15852	4.751	4.751	0.344798
37	39 (41,64,71,72)	20.314	38632	7.492	7.492	0.532879
38	41 (68,96)	20.469	575			
39	42 (40)	20.574	7769	1.718	1.718	0.467420
40	43 (57,103)	20.822	426			
41	44 (58,67,100)	21.008	1187	0.201	0.201	0.610523
42	45 (63)	21.162	2240	0.384	0.384	0.603235
43	46 (74,94,61)	21.328	26230	3.472	3.472	0.780757
44	47 (70)	21.457	37425	6.213	6.213	0.622526
45	48 (66,76,98,80,93,95,102,88)	21.573	53534	13.157	13.157	0.420500
46	49 (55,91,121)	21.866	4813	0.932	0.932	0.533713
47	50 (56,60)	22.175	39630	6.396	6.396	0.640370
48	51 (84,92,155)	22.402	8083	3.289	3.289	0.253954
49	52 (89)	22.509	950	0.183	0.183	0.537245
50	53 (90,101)	22.666	17041	3.289	3.289	0.535419
51	54 (79,99,113)	22.859	10984	1.352	1.352	0.839469
52	55 (119,150)	23.138	651	0.051	0.051	1.312314
53	56 (78,83,112,108)	23.230	1351	0.274	0.274	0.509624
54	57 (97,152,86)	23.442	7097	1.023	1.023	0.716784
55	58 (81,87,117,125,115,145)	23.616	12022	2.120	2.120	0.586103
56	59 (116,85,111)	23.769	9417	1.279	1.279	0.760743
57	60 (120,136)	23.881	5720	1.370	1.370	0.431303
58	61 (77,110,148)	24.017	22580	3.892	3.892	0.599532
59	62 (154)	24.292				
60	63 (82)	24.385	5669	0.804	0.804	0.728780
61	64 (151)	24.677	17788	3.106	3.106	0.591776
62	65 (124,135)	24.810	5072	0.530	0.530	0.988978
63	66 (144)	24.875	4291	1.097	1.097	0.404397
64	67 (107,109,147)	24.951	1464	0.237	0.237	0.637067
65	68 (123)	25.048	438			
66	69 (106,118,139,149)	25.121	46285	7.309	7.309	0.654409
67	70 (140)	25.235				
68	71 (114,134,143)	25.511	2367	0.369	0.369	0.662912
69	72 (122,131,133,142)	25.707	546	0.053	0.053	1.060512
70	73 (146,165,188)	25.978	4946	0.713	0.713	0.717144

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.104	20726	2.476	2.476	0.865106
72	75 (153)	26.248	41397	5.382	5.382	0.794931
73	76 (127,168,184)	26.366				
74	77 (141)	26.759	14905	3.106	3.106	0.495873
75	78 (179)	26.813	15911	2.668	2.668	0.616298
76	79 (137)	27.019	745	0.137	0.137	0.562287
77	80 (130,176)	27.159	6093	0.475	0.475	1.325956
78	82 (138,163,164)	27.379	36157	4.964	4.964	0.752744
79	83 (158,160,186)	27.554	3879	0.457	0.457	0.877758
80	84 (126,129)	27.753	483	0.024	0.024	2.111957
81	85 (166,178)	28.072	7955	2.010	2.010	0.409011
82	87 (175,159)	28.359	1642	0.366	0.366	0.464309
83	88 (182,187)	28.502	46411	6.578	6.578	0.729096
84	89 (128,162)	28.623	2136	0.183	0.183	1.207982
85	90 (183)	28.792	21811	3.106	3.106	0.725598
86	91 (167)	29.068	620	0.090	0.090	0.715139
87	92 (185)	29.370	9014	0.859	0.859	1.084920
88	93 (174,181)	29.720	41067	5.847	5.847	0.725804
89	94 (177)	29.978	19827	3.106	3.106	0.659618
90	95 (156,171)	30.272	10128	1.444	1.444	0.724927
91	96 (157,202)	30.513	6171	0.121	0.121	5.284116
92	98 (173)	30.678	688	0.069	0.069	1.024078
93	99 (201)	31.030	4712	0.713	0.713	0.683179
94	100 (172,204)	31.273	6605	1.023	1.023	0.667116
95	101 (192,197)	31.544	1213	0.201	0.201	0.623781
96	102 (180)	31.725	90305	11.147	11.147	0.837233
97	103 (193)	31.961	5698	0.768	0.768	0.767223
98	104 (191)	32.259	1575	0.219	0.219	0.742400
99	105 (200,169)	32.576	6104	0.786	0.786	0.802791
100	106 (170)	33.691	30341	2.339	2.339	1.340599
101	107 (190)	33.952	8898	0.768	0.768	1.198131
102	108 (198)	34.773	2362	0.219	0.219	1.113500
103	109 (199)	34.986	38107	7.675	7.675	0.513124
104	110 (196,203)	35.503	43009	7.858	7.858	0.565648
105	111 (189)	36.640	824	0.073	0.073	1.167741
106	112 (195)	38.087	15576	1.010	1.010	1.593227
107	113 (208)	38.575	2671	0.451	0.451	0.611808
108	114 (207)	39.479	1905	0.170	0.170	1.158538
109	115 (194)	40.821	40496	3.289	3.289	1.272350
110	116 (205)	41.673	1927	0.201	0.201	0.990884
111	I.S. (OCN)	45.131	175915	18.180	18.180	9676.274533
112	117 (206)	46.554	15094	1.242	1.242	1.255595

### Peak Results

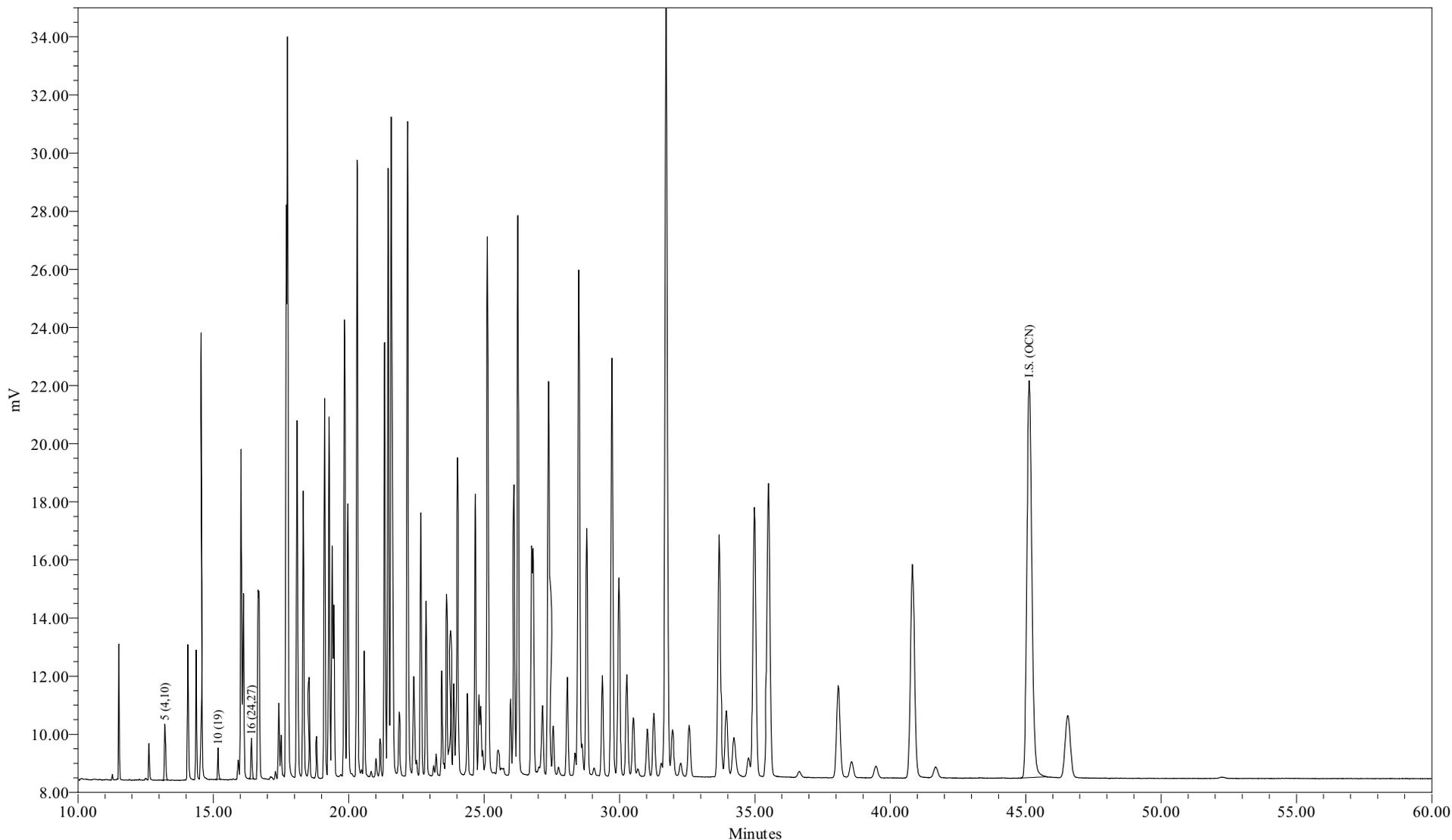
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.278	233	0.022	0.022	1.087888



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Sample Name: ICAL0905E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 9/5/2009 9:23:21 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-7



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Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: ICAL0905E Sample Amount: 1  
Sample ID: ICAL 627 ng/mL Dilution: 1  
Date Acquired: 9/5/2009 9:23:21 AM EDT Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 9/12/2009 3:19:30 PM EDT  
Sample Set Name: GC24\_CC\_090509 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: CSGB\_LL1X\_090509 Current Date: 9/18/2009  
Run Time: 60.0 Minutes Current Time: 9:53:37 AM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-163-7

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.514				
2	3 (2)	12.517				
3	4 (3)	12.634				
4	5 (4,10)	13.212	6100	12.426	12.426	0.051459
5	6 (7,9)	14.064				
6	7 (6)	14.369				
7	8 (5,8)	14.552				
8	9 (14)	15.113				
9	10 (19)	15.178	2668	1.024	1.024	0.273195
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.921				
13	14 (15,18)	16.024				
14	15 (17)	16.109				
15	16 (24,27)	16.410	4054	0.950	0.950	0.447443
16	17 (16,32)	16.663				
17	19 (23,34,54)	17.114				
18	20 (29)	17.294				
19	21 (26)	17.420				
20	22 (25)	17.503				
21	23 (31)	17.698				
22	24 (28,50)	17.749				
23	25 (20,21,33,53)	18.095				
24	26 (22,51)	18.324				
25	27 (45)	18.540				
26	28 (36)	18.694				
27	29 (46)	18.808				
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.109				
30	32 (43,49)	19.277				
31	33 (38,47)	19.392				
32	34 (48,75)	19.457				
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.840				
36	38 (37,42,59)	19.968				
37	39 (41,64,71,72)	20.315				
38	41 (68,96)	20.471				
39	42 (40)	20.577				
40	43 (57,103)	20.825				
41	44 (58,67,100)	21.006				
42	45 (63)	21.163				
43	46 (74,94,61)	21.327				
44	47 (70)	21.456				
45	48 (66,76,98,80,93,95,102,88)	21.572				
46	49 (55,91,121)	21.865				
47	50 (56,60)	22.174				
48	51 (84,92,155)	22.402				
49	52 (89)	22.507				
50	53 (90,101)	22.664				
51	54 (79,99,113)	22.856				
52	55 (119,150)	23.134				
53	56 (78,83,112,108)	23.229				
54	57 (97,152,86)	23.442				
55	58 (81,87,117,125,115,145)	23.615				
56	59 (116,85,111)	23.767				
57	60 (120,136)	23.879				
58	61 (77,110,148)	24.016				
59	62 (154)	24.292				
60	63 (82)	24.383				
61	64 (151)	24.678				
62	65 (124,135)	24.807				
63	66 (144)	24.877				
64	67 (107,109,147)	24.951				
65	68 (123)	25.036				
66	69 (106,118,139,149)	25.121				
67	70 (140)	25.235				
68	71 (114,134,143)	25.515				
69	72 (122,131,133,142)	25.713				
70	73 (146,165,188)	25.982				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.097				
72	75 (153)	26.250				
73	76 (127,168,184)	26.366				
74	77 (141)	26.758				
75	78 (179)	26.813				
76	79 (137)	27.020				
77	80 (130,176)	27.161				
78	82 (138,163,164)	27.380				
79	83 (158,160,186)	27.553				
80	84 (126,129)	27.736				
81	85 (166,178)	28.072				
82	87 (175,159)	28.360				
83	88 (182,187)	28.496				
84	89 (128,162)	28.621				
85	90 (183)	28.792				
86	91 (167)	29.046				
87	92 (185)	29.366				
88	93 (174,181)	29.724				
89	94 (177)	29.979				
90	95 (156,171)	30.264				
91	96 (157,202)	30.513				
92	98 (173)	30.680				
93	99 (201)	31.039				
94	100 (172,204)	31.268				
95	101 (192,197)	31.542				
96	102 (180)	31.719				
97	103 (193)	31.958				
98	104 (191)	32.250				
99	105 (200,169)	32.576				
100	106 (170)	33.681				
101	107 (190)	33.946				
102	108 (198)	34.755				
103	109 (199)	34.980				
104	110 (196,203)	35.502				
105	111 (189)	36.642				
106	112 (195)	38.096				
107	113 (208)	38.594				
108	114 (207)	39.486				
109	115 (194)	40.838				
110	116 (205)	41.669				
111	I.S. (OCN)	45.129	173433	18.180	18.180	9539.748802
112	117 (206)	46.568				

**Peak Results**

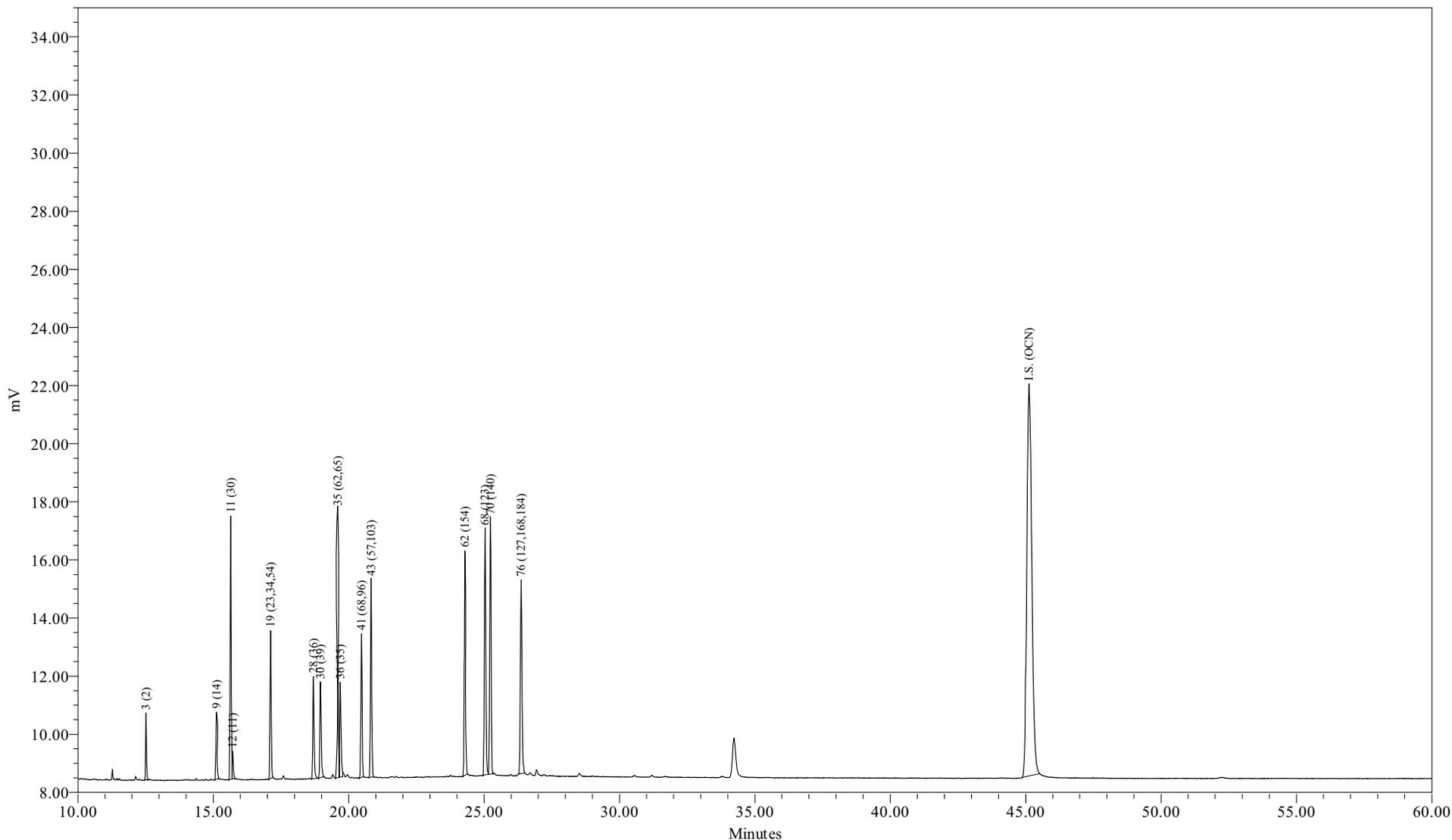
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.297				



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Sample Name: SC0905A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 9/5/2009 11:34:20 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-9



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Sample Name	SC0905A	Sample Amount:	1
Sample ID	SUP CONG STD 200.5 ng/mL	Dilution	1
Date Acquired	9/5/2009 11:34:20 AM EDT	Extract Volume	1
Project Name	GC24_Mar_2009	Date Processed	9/12/2009 3:19:32 PM EDT
Sample Set Name	GC24_CC_090509	User Name	Amy Jo Arndt (AmyJoA)
Processing Method	CSGB_LL1X_090509	Current Date	9/18/2009
Run Time	60.0 Minutes	Current Time	9:53:44 AM US/Eastern
Report Name	CSGB_CaStd_rpt	LIMS File ID	GC24-163-9

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ppb)	Relative Response Factor
1	2 (1)	11.514				
2	3 (2)	12.517	4607	200.000	200.000	0.002451
3	4 (3)	12.634				
4	5 (4,10)	13.215				
5	6 (7,9)	14.064				
6	7 (6)	14.369				
7	8 (5,8)	14.552				
8	9 (14)	15.112	6274	5.000	5.000	0.133518
9	10 (19)	15.177				
10	11 (30)	15.641	23564	5.000	5.000	0.501489
11	12 (11)	15.716	2680	5.000	5.000	0.057030
12	13 (12,13)	15.921				
13	14 (15,18)	16.024				
14	15 (17)	16.109				
15	16 (24,27)	16.410				
16	17 (16,32)	16.663				
17	19 (23,34,54)	17.115	14298	5.000	5.000	0.304293
18	20 (29)	17.294				
19	21 (26)	17.420				
20	22 (25)	17.503				
21	23 (31)	17.698				
22	24 (28,50)	17.749				
23	25 (20,21,33,53)	18.095				
24	26 (22,51)	18.324				
25	27 (45)	18.540				
26	28 (36)	18.695	11375	5.000	5.000	0.242069
27	29 (46)	18.808				
28	30 (39)	18.957	10859	5.000	5.000	0.231103

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area ( $\mu V \cdot sec$ )	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.109				
30	32 (43,49)	19.277				
31	33 (38,47)	19.392				
32	34 (48,75)	19.457				
33	35 (62,65)	19.591	28612	5.000	5.000	0.608916
34	36 (35)	19.690	10923	5.000	5.000	0.232451
35	37 (104,44)	19.840				
36	38 (37,42,59)	19.968				
37	39 (41,64,71,72)	20.315				
38	41 (68,96)	20.471	15502	5.000	5.000	0.329906
39	42 (40)	20.577				
40	43 (57,103)	20.828	21768	5.000	5.000	0.463251
41	44 (58,67,100)	21.006				
42	45 (63)	21.163				
43	46 (74,94,61)	21.327				
44	47 (70)	21.456				
45	48 (66,76,98,80,93,95,102,88)	21.572				
46	49 (55,91,121)	21.865				
47	50 (56,60)	22.174				
48	51 (84,92,155)	22.402				
49	52 (89)	22.507				
50	53 (90,101)	22.664				
51	54 (79,99,113)	22.856				
52	55 (119,150)	23.134				
53	56 (78,83,112,108)	23.229				
54	57 (97,152,86)	23.442				
55	58 (81,87,117,125,115,145)	23.615				
56	59 (116,85,111)	23.767				
57	60 (120,136)	23.879				
58	61 (77,110,148)	24.016				
59	62 (154)	24.293	25746	5.000	5.000	0.547924
60	63 (82)	24.383				
61	64 (151)	24.678				
62	65 (124,135)	24.807				
63	66 (144)	24.877				
64	67 (107,109,147)	24.951				
65	68 (123)	25.035	29765	5.000	5.000	0.633456
66	69 (106,118,139,149)	25.121				
67	70 (140)	25.234	30316	5.000	5.000	0.645169
68	71 (114,134,143)	25.515				
69	72 (122,131,133,142)	25.713				
70	73 (146,165,188)	25.982				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.097				
72	75 (153)	26.250				
73	76 (127,168,184)	26.367	26043	5.000	5.000	0.554248
74	77 (141)	26.758				
75	78 (179)	26.813				
76	79 (137)	27.020				
77	80 (130,176)	27.161				
78	82 (138,163,164)	27.380				
79	83 (158,160,186)	27.553				
80	84 (126,129)	27.736				
81	85 (166,178)	28.072				
82	87 (175,159)	28.360				
83	88 (182,187)	28.496				
84	89 (128,162)	28.621				
85	90 (183)	28.792				
86	91 (167)	29.046				
87	92 (185)	29.366				
88	93 (174,181)	29.724				
89	94 (177)	29.979				
90	95 (156,171)	30.264				
91	96 (157,202)	30.513				
92	98 (173)	30.680				
93	99 (201)	31.039				
94	100 (172,204)	31.268				
95	101 (192,197)	31.542				
96	102 (180)	31.719				
97	103 (193)	31.958				
98	104 (191)	32.250				
99	105 (200,169)	32.576				
100	106 (170)	33.681				
101	107 (190)	33.946				
102	108 (198)	34.755				
103	109 (199)	34.980				
104	110 (196,203)	35.502				
105	111 (189)	36.642				
106	112 (195)	38.096				
107	113 (208)	38.594				
108	114 (207)	39.486				
109	115 (194)	40.838				
110	116 (205)	41.669				
111	I.S. (OCN)	45.122	170851	18.180	18.180	9397.750888
112	117 (206)	46.568				

### Peak Results

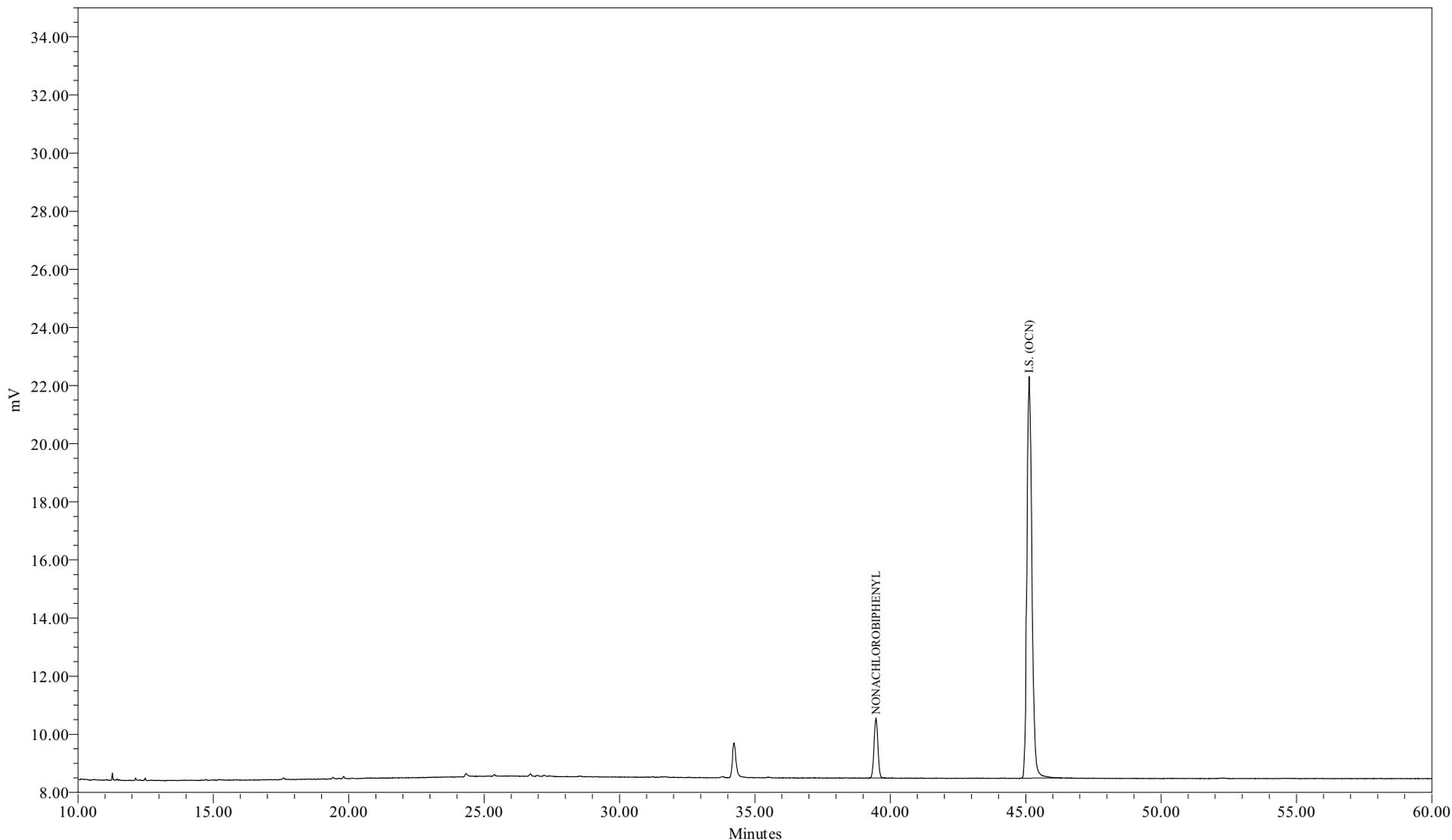
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area ( $\mu V \cdot sec$ )	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.297				



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Sample Name: SS0905A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 9/5/2009 12:40:05 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB S 2 090509  
LIMS File ID: GC24-163-10



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Sample Name:	SS0905A	Sample Amount:	1
Sample ID:	Surr Std (207) 2.0 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 12:40:05 PM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/7/2009 2:25:40 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_S_2_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:51 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-10

**Peak Results**

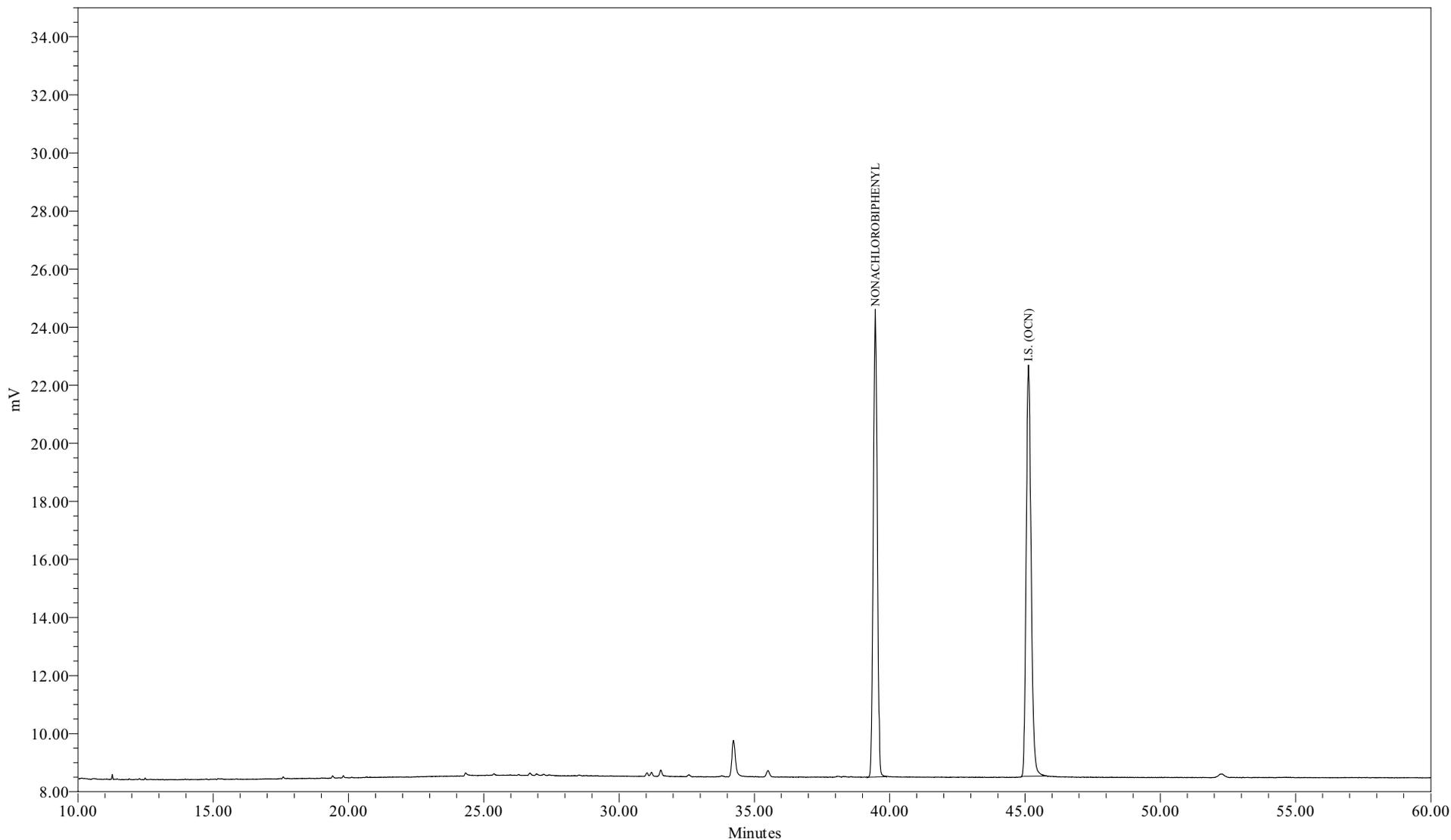
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	39.468	20397	2.000	2.000	1.042708
2	I.S. (OCN)	45.132	177818	18.180	18.180	9780.990090



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Sample Name: SS0905B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 9/5/2009 1:45:34 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB S 20 090509  
LIMS File ID: GC24-163-11



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Sample Name:	SS0905B	Sample Amount:	1
Sample ID:	Surr Std (207) 20.0 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 1:45:34 PM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/7/2009 2:26:32 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_S_20_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:57 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-11

**Peak Results**

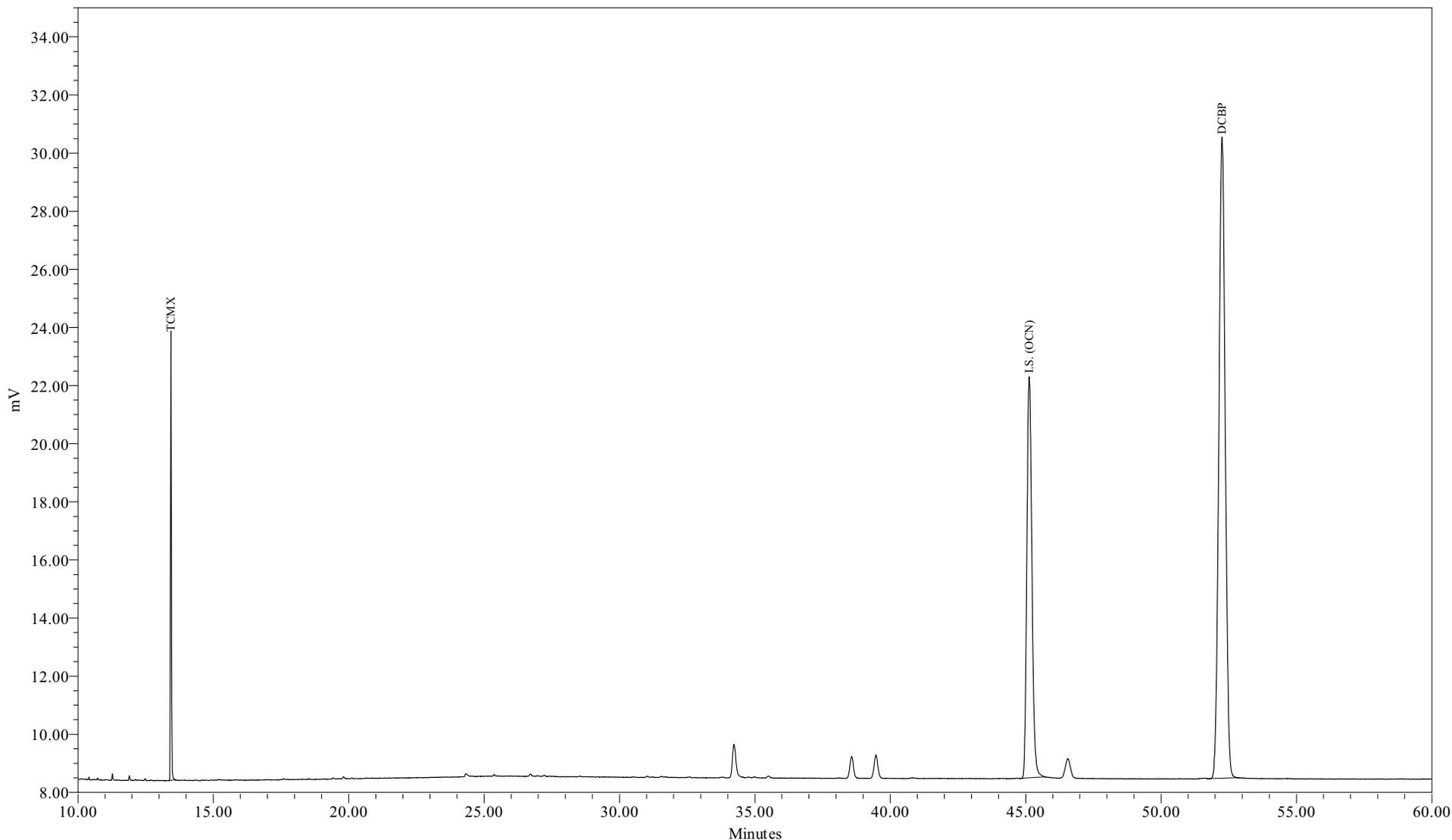
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	39.468	163748	20.000	20.000	0.833772
2	I.S. (OCN)	45.129	178522	18.180	18.180	9819.708978



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Sample Name: TD0905A  
Sample ID: Surr TCMX/DCBP 5/50 ppb  
Date Acquired: 9/5/2009 2:51:02 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB TD\_S\_090509  
LIMS File ID: GC24-163-12



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Sample Name:	TD0905A	Sample Amount:	1
Sample ID:	Surr TCMX/DCBP 5/50 ppb	Dilution:	1
Date Acquired:	9/5/2009 2:51:02 PM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/7/2009 2:29:09 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_TD_S_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:54:00 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-12

**Peak Results**

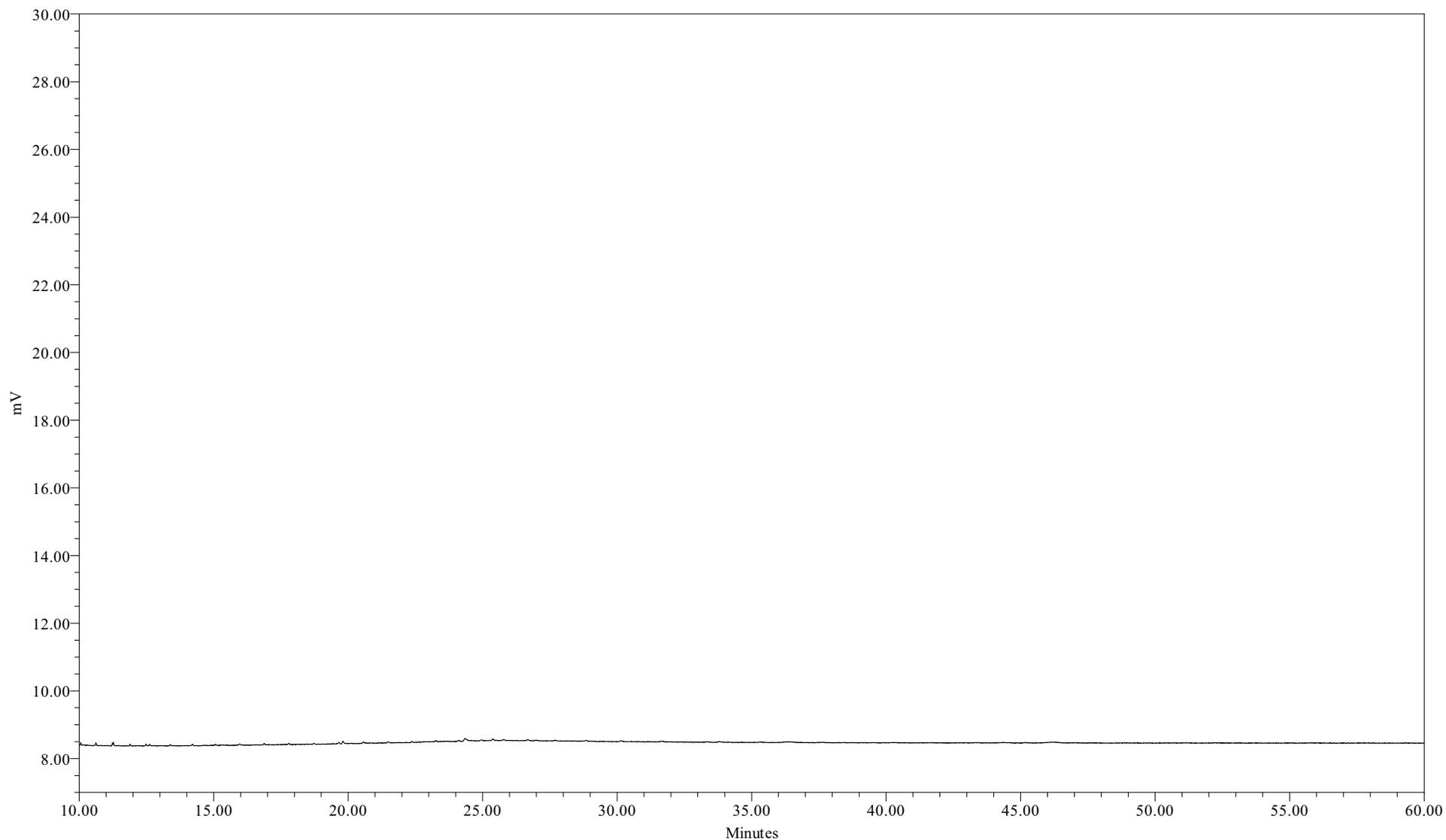
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	TCMX	13.436	35145	5.000	5.000	0.714607
2	I.S. (OCN)	45.132	178822	18.180	18.180	9836.191773
3	DCBP	52.254	362323	50.000	50.000	0.736714



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Sample Name: 090905B04  
Sample ID: HEXANE BLANK  
Date Acquired: 9/5/2009 3:56:30 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-13



**Northeast Analytical, Inc.**

PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0922C File ID: GC24-175-15		Continuing Calibration CCCS0922D File ID: GC24-175-22		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.23	-8.85	1.18	-12.7		
37 (104,44)	3.06	+/-15	2.92	-4.71	2.91	-5.00		
47 (70)	2.42	+/-15	2.22	-8.37	2.20	-8.93		
93 (174,181)	2.28	+/-15	2.16	-5.11	2.15	-5.50		
102 (180)	4.35	+/-15	4.06	-6.56	4.03	-7.34		
116 (205)	0.0788	+/-30	0.0753	-4.38	0.0781	-0.856		
Total CCCS Conc.	122	+/-15	116	-4.96	114	-6.31		

Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0922C	1483 uV	741.5 uV	509 uV
CCCS0922D	1475 uV	737.5 uV	544 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0922C	1950 uV	650 uV	134 uV
CCCS0922D	1953 uV	651 uV	121 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0922C	CCCS0922C File ID: GC24-175-15		CCCS0922D File ID: GC24-175-22		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.51		11.51			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.63		12.63			
4	5 (4,10)	+/-0.07	13.21		13.21			
5	6 (7,9)	+/-0.07	14.06		14.06			
6	7 (6)	+/-0.07	14.36		14.36			
7	8 (5,8)	+/-0.07	14.55		14.55			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.17		15.17			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	15.92		15.92			
13	14 (15,18)	+/-0.07	16.02		16.02			
14	15 (17)	+/-0.07	16.10		16.10			
15	16 (24,27)	+/-0.07	16.40		16.40			
16	17 (16,32)	+/-0.07	16.65		16.65			
17	19 (23,34,54)	+/-0.07	17.11		17.10			
18	20 (29)	+/-0.07	17.29		17.29			
19	21 (26)	+/-0.07	17.41		17.41			
20	22 (25)	+/-0.07	17.50		17.50			
21	23 (31)	+/-0.07	17.69		17.69			
22	24 (28,50)	+/-0.07	17.74		17.74			
23	25 (20,21,33,53)	+/-0.07	18.09		18.09			
24	26 (22,51)	+/-0.07	18.32		18.32			
25	27 (45)	+/-0.07	18.53		18.53			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	18.81		18.81			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.10		19.10			
30	32 (43,49)	+/-0.07	19.27		19.27			
31	33 (38,47)	+/-0.07	19.38		19.38			
32	34 (48,75)	+/-0.07	19.44		19.44			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	19.69		19.69			
35	37 (104,44)	+/-0.07	19.83		19.83			
36	38 (37,42,59)	+/-0.07	19.96		19.96			
37	39 (41,64,71,72)	+/-0.07	20.31		20.30			
38	41 (68,96)	+/-0.07	20.46		20.46			
39	42 (40)	+/-0.07	20.57		20.56			
40	43 (57,103)	+/-0.07	20.82		20.81			
41	44 (58,67,100)	+/-0.07	21.00		21.00			
42	45 (63)	+/-0.07	21.15		21.15			
43	46 (74,94,61)	+/-0.07	21.32		21.32			
44	47 (70)	+/-0.07	21.45		21.45			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.57		21.57			
46	49 (55,91,121)	+/-0.07	21.86		21.85			
47	50 (56,60)	+/-0.07	22.17		22.17			
48	51 (84,92,155)	+/-0.07	22.39		22.39			
49	52 (89)	+/-0.07	22.50		22.49			
50	53 (90,101)	+/-0.07	22.66		22.65			
51	54 (79,99,113)	+/-0.07	22.85		22.85			
52	55 (119,150)	+/-0.07	23.13		23.13			
53	56 (78,83,112,108)	+/-0.07	23.22		23.22			
54	57 (97,152,86)	+/-0.07	23.43		23.43			
55	58 (81,87,117,125,115,145)	+/-0.07	23.60		23.60			
56	59 (116,85,111)	+/-0.07	23.76		23.76			

Nea Lims Version : 5.0.0.0

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0922C	CCCS0922C File ID: GC24-175-15		CCCS0922D File ID: GC24-175-22		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	23.87		23.87			
58	61 (77,110,148)	+/-0.07	24.01		24.01			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.37		24.37			
61	64 (151)	+/-0.07	24.67		24.67			
62	65 (124,135)	+/-0.07	24.80		24.80			
63	66 (144)	+/-0.07	24.86		24.86			
64	67 (107,109,147)	+/-0.07	24.94		24.94			
65	68 (123)	+/-0.07	25.04		25.04			
66	69 (106,118,139,149)	+/-0.07	25.11		25.11			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.49		25.49			
69	72 (122,131,133,142)	+/-0.07	25.70		25.71			
70	73 (146,165,188)	+/-0.07	25.97		25.97			
71	74 (105,132,161)	+/-0.07	26.09		26.09			
72	75 (153)	+/-0.07	26.24		26.24			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	26.75		26.74			
75	78 (179)	+/-0.07	26.80		26.80			
76	79 (137)	+/-0.07	27.03		27.01			
77	80 (130,176)	+/-0.07	27.15		27.14			
78	82 (138,163,164)	+/-0.07	27.37		27.37			
79	83 (158,160,186)	+/-0.07	27.54		27.54			
80	84 (126,129)	+/-0.07	27.74		27.74			
81	85 (166,178)	+/-0.07	28.06		28.06			
82	87 (175,159)	+/-0.07	28.35		28.35			
83	88 (182,187)	+/-0.07	28.48		28.48			
84	89 (128,162)	+/-0.07	28.61		28.60			
85	90 (183)	+/-0.07	28.78		28.78			
86	91 (167)	+/-0.07	29.06		29.05			
87	92 (185)	+/-0.07	29.35		29.35			
88	93 (174,181)	+/-0.07	29.70		29.71			
89	94 (177)	+/-0.07	29.96		29.96			
90	95 (156,171)	+/-0.07	30.25		30.25			
91	96 (157,202)	+/-0.07	30.49		30.49			
92	98 (173)	+/-0.07	30.65		30.66			
93	99 (201)	+/-0.07	31.01		31.01			
94	100 (172,204)	+/-0.07	31.25		31.25			
95	101 (192,197)	+/-0.07	31.53		31.53			
96	102 (180)	+/-0.07	31.71		31.71			
97	103 (193)	+/-0.07	31.94		31.93			
98	104 (191)	+/-0.07	32.26		32.24			
99	105 (200,169)	+/-0.07	32.56		32.56			
100	106 (170)	+/-0.07	33.66		33.67			
101	107 (190)	+/-0.07	33.92		33.93			
102	108 (198)	+/-0.07	34.75		34.75			
103	109 (199)	+/-0.07	34.97		34.97			
104	110 (196,203)	+/-0.07	35.48		35.47			
105	111 (189)	+/-0.07	36.61		36.60			
106	112 (195)	+/-0.07	38.06		38.05			
107	113 (208)	+/-0.07	38.55		38.54			
108	114 (207)	+/-0.07	39.45		39.44			
109	115 (194)	+/-0.07	40.80		40.79			
110	116 (205)	+/-0.07	41.64		41.66			
111	117 (206)	+/-0.07	46.51		46.51			
112	118 (209)	+/-0.07	52.31		52.29			

Nea Lims Version : 5.0.0.0

Calibration Component Summary Table  
Component Summary for RF  
(GC-16)



Project Name:	GC16_May_2009	Current Time:	15:38:34
Sample Set Name:	GC16_082309a	Current Date:	10/15/2009
Processing Method:	CSGB_LL1X_082309	Calibration ID:	13506,13656
Run Time:	60 Minutes	Calibration Date(s):	08/23/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999666	Y = 2.83e-002 X + 1.80e-003	0.00180161883174779	0.0283332302329311
2	3 (2)	1.000000	Y = 2.90e-003 X	0	0.0028988143297413
3	4 (3)	0.998520	Y = 1.49e-002 X + 6.51e-004	0.000650508514068254	0.0148657067002506
4	5 (4,10)	0.998527	Y = 6.09e-002 X + 5.91e-005	5.90957812784954E-5	0.0608536348664009
5	6 (7,9)	0.999540	Y = 4.64e-001 X - 4.26e-003	-0.00426333353122299	0.463978147055201
6	7 (6)	0.999269	Y = 2.19e-001 X + 5.57e-003	0.00556691804847825	0.219075513631429
7	8 (5,8)	0.999143	Y = 1.17e-001 X + 8.07e-004	0.000807218077034433	0.117159733370829
8	9 (14)	1.000000	Y = 1.77e-001 X	0	0.176868975557739
9	10 (19)	0.997922	Y = 3.57e-001 X + 1.34e-003	0.00134230736134591	0.357004065514705
10	11 (30)	1.000000	Y = 6.65e-001 X	0	0.665040391278157
11	12 (11)	1.000000	Y = 6.49e-002 X	0	0.0648965680053031
12	13 (12,13)	0.999917	Y = 2.88e-001 X - 8.92e-004	-0.00089227717929410	0.287635106852082
13	14 (15,18)	0.999678	Y = 3.80e-001 X + 1.29e-003	0.00128875081394431	0.380444233011606
14	15 (17)	0.999352	Y = 1.85e-001 X - 1.85e-003	-0.00185317508611305	0.185438252271081
15	16 (24,27)	0.999820	Y = 5.58e-001 X - 1.12e-004	-0.0001150182609198	0.557991974444177
16	17 (16,32)	0.999547	Y = 3.20e-001 X + 5.14e-003	0.00513819429649165	0.319912593206853
17	19 (23,34,54)	1.000000	Y = 3.97e-001 X	0	0.396913487979062
18	20 (29)	0.999383	Y = 6.83e-001 X - 1.62e-004	-0.00016213940130775	0.682979138521941
19	21 (26)	0.999439	Y = 4.35e-001 X - 1.81e-003	-0.0018140507800633	0.434755628640035
20	22 (25)	0.996938	Y = 6.49e-001 X + 8.04e-004	0.00080395640181119	0.648567729352283
21	23 (31)	0.999851	Y = 5.15e-001 X + 1.46e-002	0.0145673812109512	0.515009697279804
22	24 (28,50)	0.999549	Y = 5.69e-001 X + 9.62e-003	0.00962487780023169	0.56929839644903
23	25 (20,21,33,53)	0.999884	Y = 4.44e-001 X + 1.09e-002	0.0109144575869213	0.443884687508628
24	26 (22,51)	0.999294	Y = 4.09e-001 X + 3.00e-003	0.00300141703110302	0.40913721561058
25	27 (45)	0.999987	Y = 5.06e-001 X - 6.15e-004	-0.00061486210722278	0.50628684614489
26	28 (36)	1.000000	Y = 3.02e-001 X	0	0.301527806357938
27	29 (46)	0.999254	Y = 4.63e-001 X + 1.04e-003	0.00104278670570448	0.462685055002637
28	30 (39)	1.000000	Y = 2.98e-001 X	0	0.298422313485573
29	31 (52,69,73)	0.999437	Y = 3.62e-001 X + 7.37e-004	0.000737007710196247	0.361920898412064
30	32 (43,49)	0.999386	Y = 7.07e-001 X - 3.03e-004	-0.00030311389247850	0.706687934615838
31	33 (38,47)	0.999624	Y = 9.57e-001 X + 1.68e-002	0.0167860356382913	0.957134995666923
32	34 (48,75)	0.998774	Y = 7.22e-001 X + 5.39e-003	0.00538866165255014	0.721989822847315
33	35 (62,65)	1.000000	Y = 7.87e-001 X	0	0.787266064787361
34	36 (35)	1.000000	Y = 2.81e-001 X	0	0.281285947945671
35	37 (104,44)	0.999213	Y = 5.48e-001 X + 9.22e-003	0.00921654953183637	0.547945433910457
36	38 (37,42,59)	0.999855	Y = 4.55e-001 X + 1.16e-003	0.00115621085286932	0.454926413995967
37	39 (41,64,71,72)	0.999616	Y = 7.02e-001 X + 1.09e-002	0.0108711637736025	0.701958584437876
38	41 (68,96)	1.000000	Y = 4.43e-001 X	0	0.443464115224603



Project Name:	GC16_May_2009	Current Time:	15:38:35
Sample Set Name:	GC16_082309a	Current Date:	10/15/2009
Processing Method:	CSGB_LL1X_082309	Calibration ID:	13506,13656
Run Time:	60 Minutes	Calibration Date(s):	08/23/2009

**Correlation Summary**

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999897	Y = 6.04e-001 X - 4.21e-003	-0.00421326745900219	0.603622181652096
40	43 (57,103)	1.000000	Y = 6.06e-001 X	0	0.605790412639807
41	44 (58,67,100)	0.998948	Y = 7.79e-001 X - 8.32e-004	-0.00083217092138897	0.778991177606039
42	45 (63)	0.999241	Y = 8.27e-001 X + 5.39e-004	0.000539251350897996	0.827384791065449
43	46 (74,94,61)	0.999794	Y = 1.00e+000 X - 2.14e-003	-0.00213903143942917	1.00191846359632
44	47 (70)	0.999589	Y = 8.12e-001 X + 8.19e-003	0.00818564150034051	0.811694241011513
45	48 (66,76,98,80,93,95,102,88)	0.999559	Y = 5.42e-001 X + 1.85e-002	0.0184564418723854	0.542008063762718
46	49 (55,91,121)	0.999658	Y = 6.82e-001 X - 2.00e-003	-0.00200491296506167	0.682013523297033
47	50 (56,60)	0.999799	Y = 8.07e-001 X + 1.13e-002	0.0112868086738103	0.807084714896827
48	51 (84,92,155)	0.999444	Y = 3.26e-001 X - 1.42e-003	-0.00141685713963935	0.326128445303552
49	52 (89)	0.998646	Y = 7.39e-001 X - 2.29e-004	-0.00022927629604231	0.738863554876024
50	53 (90,101)	0.999157	Y = 6.99e-001 X - 5.01e-003	-0.00501475782233363	0.699255044336957
51	54 (79,99,113)	0.999498	Y = 1.10e+000 X - 2.63e-003	-0.00262837346552192	1.10071333097558
52	55 (119,150)	0.996725	Y = 1.91e+000 X + 1.01e-004	0.000100839781498337	1.90685721838572
53	56 (78,83,112,108)	0.999355	Y = 6.97e-001 X - 8.92e-004	-0.00089227127813185	0.696741560328289
54	57 (97,152,86)	0.998416	Y = 9.83e-001 X - 3.27e-003	-0.00326735698187119	0.982534433277263
55	58 (81,87,117,125,115,145)	0.999096	Y = 7.60e-001 X + 9.95e-004	0.000994669274042681	0.75951098464587
56	59 (116,85,111)	0.999734	Y = 9.55e-001 X - 3.70e-003	-0.00369590126437702	0.955469687718431
57	60 (120,136)	0.999609	Y = 7.72e-001 X - 2.00e-003	-0.00199522679699027	0.771795849662583
58	61 (77,110,148)	0.999316	Y = 6.99e-001 X - 5.28e-003	-0.00527836180821928	0.699080508987253
59	62 (154)	1.000000	Y = 7.11e-001 X	0	0.71130310696467
60	63 (82)	0.997002	Y = 9.38e-001 X + 3.62e-003	0.0036203962758749	0.937575562680917
61	64 (151)	0.999447	Y = 7.73e-001 X + 5.10e-003	0.00509705466801091	0.772582268426784
62	65 (124,135)	0.998282	Y = 1.28e+000 X + 3.13e-003	0.00313423642198085	1.28206092263176
63	66 (144)	0.999835	Y = 5.06e-001 X - 4.41e-004	-0.00044146933059446	0.505503248842196
64	67 (107,109,147)	0.999354	Y = 7.60e-001 X - 8.93e-004	-0.00089312051045831	0.759765687099173
65	68 (123)	1.000000	Y = 7.70e-001 X	0	0.769563853971667
66	69 (106,118,139,149)	0.999198	Y = 8.59e-001 X + 1.13e-002	0.0113467282905373	0.85885310852236
67	70 (140)	1.000000	Y = 8.14e-001 X	0	0.813821753273992
68	71 (114,134,143)	0.996791	Y = 9.90e-001 X + 1.10e-003	0.00109507649459528	0.98995829343812
69	72 (122,131,133,142)	0.998963	Y = 2.06e+000 X - 1.47e-004	-0.00014699669591231	2.06215739442918
70	73 (146,165,188)	0.997231	Y = 9.82e-001 X - 5.59e-004	-0.00055898448123797	0.981755005704735
71	74 (105,132,161)	0.999543	Y = 1.10e+000 X + 2.05e-003	0.00204720262696267	1.10073134524835
72	75 (153)	0.999058	Y = 1.06e+000 X + 9.13e-003	0.00913397778546488	1.05643617113411
73	76 (127,168,184)	1.000000	Y = 6.63e-001 X	0	0.662614656511015
74	77 (141)	0.998580	Y = 6.66e-001 X + 7.26e-004	0.000726456693527	0.666218065393652
75	78 (179)	0.997428	Y = 8.24e-001 X + 2.73e-005	2.7319174270346E-5	0.824102698371263
76	79 (137)	0.999964	Y = 8.37e-001 X + 2.76e-004	0.000275715034236547	0.837049243693505



Project Name:	GC16_May_2009	Current Time:	15:38:35
Sample Set Name:	GC16_082309a	Current Date:	10/15/2009
Processing Method:	CSGB_LL1X_082309	Calibration ID:	13506,13656
Run Time:	60 Minutes	Calibration Date(s):	08/23/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.997221	Y = 1.81e+000 X + 2.21e-003	0.00220808410031231	1.80617206501532
78	82 (138,163,164)	0.999086	Y = 9.59e-001 X + 1.64e-002	0.0163962096141765	0.959357538827507
79	83 (158,160,186)	0.998076	Y = 1.22e+000 X + 3.84e-003	0.00383730580819436	1.22403538482793
80	84 (126,129)	0.999921	Y = 7.16e+000 X - 1.02e-003	-0.0010169215844005	7.16239894004932
81	85 (166,178)	0.999269	Y = 5.46e-001 X - 1.74e-003	-0.00174232352807757	0.546065284242855
82	87 (175,159)	0.997907	Y = 6.77e-001 X - 8.26e-004	-0.00082550261690972	0.677419995287286
83	88 (182,187)	0.999692	Y = 9.45e-001 X + 2.38e-002	0.0237746678649109	0.945448393039283
84	89 (128,162)	0.997455	Y = 1.62e+000 X - 9.37e-004	-0.00093717667967063	1.62090770013763
85	90 (183)	0.998919	Y = 9.28e-001 X - 9.69e-003	-0.00968843132498631	0.927903589256649
86	91 (167)	0.999637	Y = 1.82e+000 X - 7.72e-004	-0.00077158670663528	1.81719867853614
87	92 (185)	0.999223	Y = 1.34e+000 X + 2.80e-003	0.00279575322946024	1.34115536940091
88	93 (174,181)	0.999764	Y = 9.17e-001 X + 1.50e-002	0.0149610719195108	0.916849056922926
89	94 (177)	0.999316	Y = 8.14e-001 X + 2.40e-003	0.00239738708996562	0.813990152366728
90	95 (156,171)	0.999470	Y = 8.83e-001 X - 4.14e-003	-0.00413990273083431	0.883476486883518
91	96 (157,202)	0.999833	Y = 6.07e+000 X + 3.75e-003	0.0037473033113688	6.06533724310093
92	98 (173)	0.995434	Y = 1.27e+000 X + 9.10e-004	0.000910324211345924	1.27009391321699
93	99 (201)	0.999519	Y = 8.14e-001 X + 1.37e-003	0.00137285179978336	0.813671112228541
94	100 (172,204)	0.999836	Y = 7.91e-001 X + 3.06e-003	0.0030613018794507	0.790792873880464
95	101 (192,197)	0.998986	Y = 7.92e-001 X + 9.71e-004	0.000971240314824803	0.79175447568383
96	102 (180)	0.999719	Y = 1.05e+000 X + 4.09e-002	0.040895239450335	1.04620529304539
97	103 (193)	0.999603	Y = 8.69e-001 X + 5.62e-004	0.000562266648669374	0.869453450791319
98	104 (191)	0.999874	Y = 9.08e-001 X - 1.06e-004	-0.00010648264862804	0.907718460139434
99	105 (200,169)	0.999680	Y = 9.07e-001 X - 8.29e-004	-0.00082928551244948	0.906747790327734
100	106 (170)	0.999935	Y = 1.59e+000 X + 9.57e-003	0.00957083545351622	1.58594500871684
101	107 (190)	0.999959	Y = 1.35e+000 X - 1.00e-003	-0.00100167292070918	1.34663560293384
102	108 (198)	0.999924	Y = 1.28e+000 X + 3.15e-003	0.00315169937761581	1.27606872681562
103	109 (199)	0.999653	Y = 6.14e-001 X + 3.57e-003	0.00357195742316518	0.61432259922954
104	110 (196,203)	0.999808	Y = 6.65e-001 X + 1.96e-002	0.0196198264294685	0.66490789965409
105	111 (189)	0.998284	Y = 1.39e+000 X + 3.43e-004	0.000342835428392099	1.39460829789726
106	112 (195)	0.999577	Y = 1.77e+000 X + 1.72e-004	0.000171863319533228	1.7656121142616
107	113 (208)	0.998357	Y = 6.34e-001 X + 1.15e-003	0.0011471857955701	0.63375215803562
108	114 (207)	0.999717	Y = 1.31e+000 X - 9.15e-004	-0.00091492958832448	1.30986058389035
109	115 (194)	0.999616	Y = 1.42e+000 X + 2.73e-002	0.0273393258160071	1.42214302195135
110	116 (205)	0.999937	Y = 8.98e-001 X - 4.47e-004	-0.00044665653333750	0.897692199238193
111	117 (206)	0.999060	Y = 1.37e+000 X - 3.79e-003	-0.00378942210764255	1.3693266605021
112	118 (209)	0.995604	Y = 1.11e+000 X - 1.51e-004	-0.00015145566795998	1.10896434916728
113	I.S. (OCN)	1.000000	Y = 9.10e+003 X	0	9099.96020396856

Calibration Component Summary Table  
Component Summary for RF  
(GC-24)



Project Name:	GC24_Mar_2009	Current Time:	15:38:35
Sample Set Name:	GC24_CC_090509	Current Date:	10/15/2009
Processing Method:	CSGB_LL1X_090509	Calibration ID:	29613,30080
Run Time:	60 Minutes	Calibration Date(s):	09/05/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999375	Y = 2.19e-002 X + 1.15e-003	0.00114918569866637	0.0218998940675526
2	3 (2)	1.000000	Y = 2.45e-003 X	0	0.00245098893045314
3	4 (3)	0.998832	Y = 1.12e-002 X - 6.60e-004	-0.00065959886838191	0.0111700989232165
4	5 (4,10)	0.999703	Y = 5.22e-002 X - 5.25e-004	-0.00052451384928620	0.0522240503887821
5	6 (7,9)	0.999625	Y = 3.59e-001 X + 5.06e-003	0.00505798707051908	0.358966795849906
6	7 (6)	0.999534	Y = 1.72e-001 X + 1.91e-004	0.000190992185699679	0.172245016954212
7	8 (5,8)	0.999446	Y = 9.23e-002 X + 1.73e-002	0.0172902146013778	0.0922684464936554
8	9 (14)	1.000000	Y = 1.34e-001 X	0	0.133517901084496
9	10 (19)	0.999493	Y = 2.81e-001 X - 8.00e-004	-0.00080007567192366	0.280620352159815
10	11 (30)	1.000000	Y = 5.01e-001 X	0	0.501488828934829
11	12 (11)	1.000000	Y = 5.70e-002 X	0	0.0570297654830576
12	13 (12,13)	0.999318	Y = 2.33e-001 X + 1.79e-004	0.000178964654987755	0.233272203578713
13	14 (15,18)	0.999498	Y = 2.68e-001 X + 8.44e-003	0.00843902895813453	0.267750144002629
14	15 (17)	0.998282	Y = 1.74e-001 X + 3.46e-003	0.00346017989162106	0.174457477141375
15	16 (24,27)	0.998877	Y = 4.61e-001 X + 2.18e-004	0.000218000583490308	0.460878660034993
16	17 (16,32)	0.999427	Y = 2.50e-001 X + 5.99e-003	0.00598935937379519	0.249883769805586
17	19 (23,34,54)	1.000000	Y = 3.04e-001 X	0	0.304293169080831
18	20 (29)	0.999809	Y = 4.08e-001 X + 3.51e-004	0.000351425726980489	0.40824989624556
19	21 (26)	0.999987	Y = 3.16e-001 X + 9.97e-004	0.000997409547049355	0.316291692984399
20	22 (25)	0.999972	Y = 4.47e-001 X + 3.06e-004	0.00030633724480178	0.446988160177157
21	23 (31)	0.999916	Y = 3.67e-001 X + 1.96e-002	0.0196306253619023	0.367222949057877
22	24 (28,50)	0.998758	Y = 4.66e-001 X + 3.10e-002	0.0309954255818892	0.46600369744225
23	25 (20,21,33,53)	0.999844	Y = 3.43e-001 X + 7.91e-003	0.0079085413701705	0.342670171746286
24	26 (22,51)	0.999924	Y = 3.30e-001 X + 5.98e-003	0.00597716049963515	0.32976122641193
25	27 (45)	0.999997	Y = 3.76e-001 X + 4.60e-003	0.00459942758604026	0.375655660398976
26	28 (36)	1.000000	Y = 2.42e-001 X	0	0.242069337889943
27	29 (46)	0.999960	Y = 3.35e-001 X - 4.72e-004	-0.00047239566193130	0.335290279600308
28	30 (39)	1.000000	Y = 2.31e-001 X	0	0.231102852203936
29	31 (52,69,73)	0.999164	Y = 2.70e-001 X + 1.28e-002	0.0127756574847226	0.270179768696834
30	32 (43,49)	0.999276	Y = 5.40e-001 X + 4.06e-003	0.00405905728350664	0.540133558869803
31	33 (38,47)	0.998535	Y = 7.53e-001 X + 1.32e-002	0.0131890914105818	0.753298649002196
32	34 (48,75)	0.999172	Y = 5.76e-001 X + 1.52e-003	0.00152231489331767	0.57646935941099
33	35 (62,65)	1.000000	Y = 6.09e-001 X	0	0.608915948915831
34	36 (35)	1.000000	Y = 2.32e-001 X	0	0.232450889234846
35	37 (104,44)	0.999409	Y = 4.10e-001 X + 3.90e-002	0.0390082706071018	0.409732213645608
36	38 (37,42,59)	0.999204	Y = 3.52e-001 X + 3.72e-003	0.00372222366506658	0.352013770053551
37	39 (41,64,71,72)	0.999541	Y = 5.40e-001 X + 2.14e-002	0.0213582928172595	0.539558812919517
38	41 (68,96)	1.000000	Y = 3.30e-001 X	0	0.32990601837551



Project Name:	GC24_Mar_2009	Current Time:	15:38:35
Sample Set Name:	GC24_CC_090509	Current Date:	10/15/2009
Processing Method:	CSGB_LL1X_090509	Calibration ID:	29613,30080
Run Time:	60 Minutes	Calibration Date(s):	09/05/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999842	Y = 4.73e-001 X - 1.07e-003	-0.00107390055135953	0.472760671880271
40	43 (57,103)	1.000000	Y = 4.63e-001 X	0	0.463250957624441
41	44 (58,67,100)	0.999878	Y = 6.04e-001 X + 3.96e-004	0.000395679645019187	0.603519689778075
42	45 (63)	0.999999	Y = 6.04e-001 X - 4.16e-005	-4.15816865692031E-5	0.603732264034578
43	46 (74,94,61)	0.999559	Y = 7.89e-001 X + 1.19e-002	0.011852950807834	0.789340532330662
44	47 (70)	0.999172	Y = 6.33e-001 X + 2.58e-002	0.0258408946762509	0.632664671251905
45	48 (66,76,98,80,93,95,102,88)	0.999175	Y = 4.27e-001 X + 3.74e-002	0.0374130322075761	0.427430089097727
46	49 (55,91,121)	0.999968	Y = 5.34e-001 X - 2.77e-003	-0.00277202329652881	0.534198313943678
47	50 (56,60)	0.999680	Y = 6.47e-001 X + 1.84e-002	0.0183891388292561	0.64685445965665
48	51 (84,92,155)	0.999520	Y = 2.57e-001 X + 4.55e-003	0.00454805164163247	0.256750901282339
49	52 (89)	0.999965	Y = 5.35e-001 X + 1.30e-005	1.29832263487603E-5	0.534797330943592
50	53 (90,101)	0.999212	Y = 5.43e-001 X + 1.34e-002	0.0134130467062864	0.543370201245317
51	54 (79,99,113)	0.999489	Y = 8.53e-001 X + 2.34e-003	0.00233511598008251	0.853281865869852
52	55 (119,150)	0.995727	Y = 1.26e+000 X - 6.94e-004	-0.00069390319978701	1.26338853786118
53	56 (78,83,112,108)	0.998632	Y = 4.98e-001 X - 6.77e-004	-0.00067721036458197	0.498192357499842
54	57 (97,152,86)	0.999451	Y = 7.27e-001 X + 9.13e-006	9.12601079799957E-6	0.726812331581486
55	58 (81,87,117,125,115,145)	0.998742	Y = 6.01e-001 X + 3.85e-003	0.00384725798850216	0.600801766163715
56	59 (116,85,111)	0.999913	Y = 7.66e-001 X - 6.05e-004	-0.00060500106327743	0.766416785008303
57	60 (120,136)	0.999486	Y = 4.39e-001 X - 4.63e-004	-0.00046258652809733	0.439110079192763
58	61 (77,110,148)	0.999527	Y = 6.09e-001 X + 5.49e-003	0.00549485702072605	0.609033681811419
59	62 (154)	1.000000	Y = 5.48e-001 X	0	0.547924380591247
60	63 (82)	0.999346	Y = 7.39e-001 X + 4.01e-003	0.00400920347385453	0.739321952135115
61	64 (151)	0.999545	Y = 5.98e-001 X + 1.03e-002	0.0103402158987131	0.598496988901143
62	65 (124,135)	0.999603	Y = 9.99e-001 X - 6.26e-004	-0.00062583428186552	0.99906852577177
63	66 (144)	0.999861	Y = 4.09e-001 X - 3.95e-004	-0.00039546434271656	0.408708436555084
64	67 (107,109,147)	0.997781	Y = 6.17e-001 X - 5.10e-004	-0.00051041831914983	0.617260133200578
65	68 (123)	1.000000	Y = 6.33e-001 X	0	0.633456361025202
66	69 (106,118,139,149)	0.998877	Y = 6.67e-001 X + 3.43e-002	0.0343210460556618	0.666517368827283
67	70 (140)	1.000000	Y = 6.45e-001 X	0	0.645168788064677
68	71 (114,134,143)	0.999829	Y = 6.61e-001 X - 3.57e-005	-3.57222781863092E-5	0.660860063860347
69	72 (122,131,133,142)	0.997904	Y = 1.01e+000 X + 5.74e-004	0.000574120786733346	1.01464575845702
70	73 (146,165,188)	0.999484	Y = 7.25e-001 X + 1.41e-003	0.00141400637965305	0.725245317137927
71	74 (105,132,161)	0.999667	Y = 8.76e-001 X + 4.93e-003	0.00492856875016012	0.876273956193995
72	75 (153)	0.998494	Y = 8.14e-001 X + 3.07e-002	0.0307154928391586	0.814466849730675
73	76 (127,168,184)	1.000000	Y = 5.54e-001 X	0	0.554248378495811
74	77 (141)	0.999715	Y = 5.01e-001 X + 5.09e-003	0.00508934789545379	0.501174797833575
75	78 (179)	0.998435	Y = 6.31e-001 X + 1.60e-002	0.0160191224558756	0.630858398874264
76	79 (137)	0.995478	Y = 5.83e-001 X + 1.21e-003	0.00121223519224356	0.58309669477838

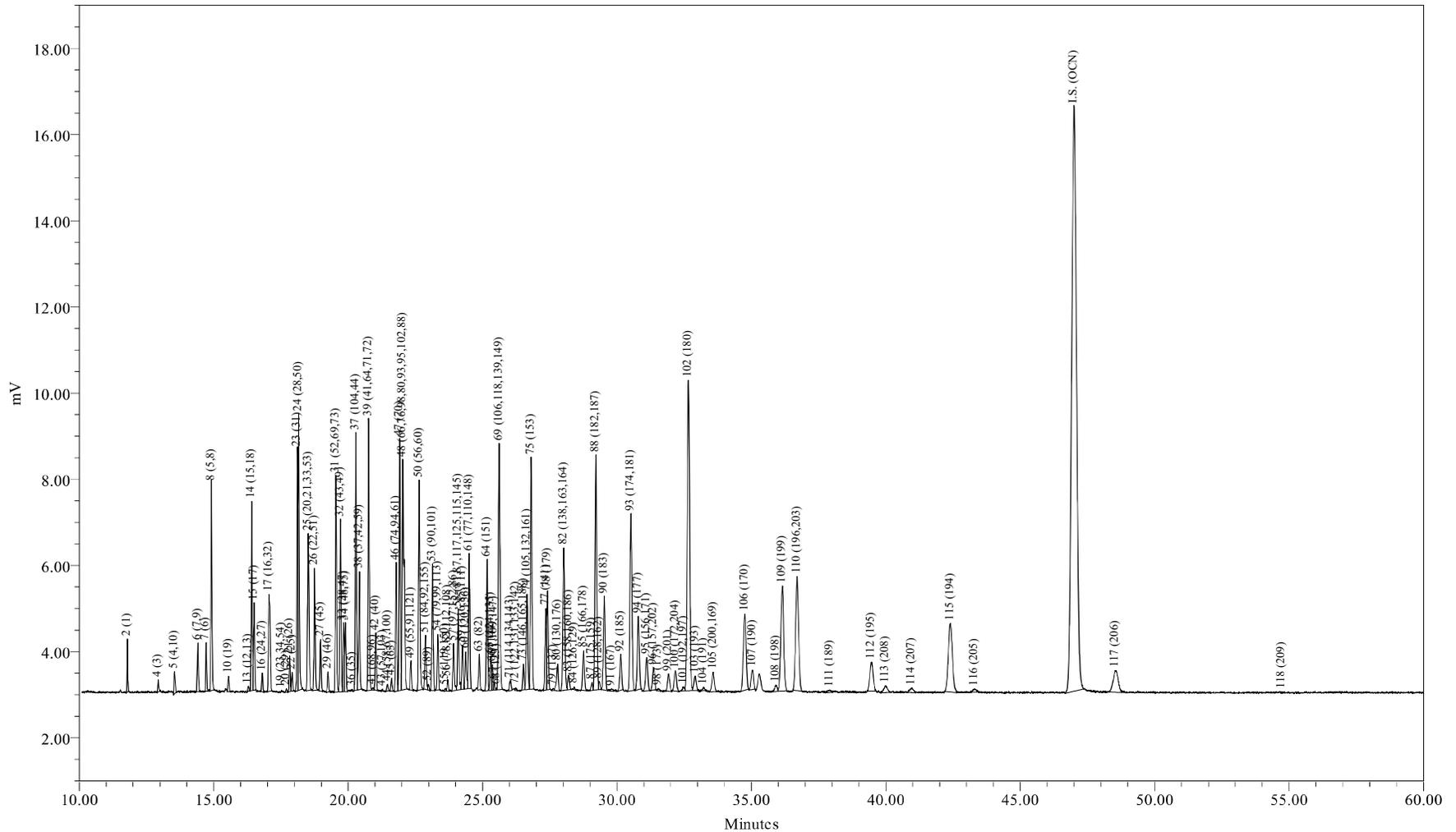


Project Name:	GC24_Mar_2009	Current Time:	15:38:35
Sample Set Name:	GC24_CC_090509	Current Date:	10/15/2009
Processing Method:	CSGB_LL1X_090509	Calibration ID:	29613,30080
Run Time:	60 Minutes	Calibration Date(s):	09/05/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.998863	Y = 1.36e+000 X + 2.96e-004	0.000295823567599163	1.36322949172547
78	82 (138,163,164)	0.999253	Y = 7.64e-001 X + 2.62e-002	0.026195003293918	0.764227235503645
79	83 (158,160,186)	0.998715	Y = 8.89e-001 X - 7.12e-004	-0.00071194855604361	0.88876824078208
80	84 (126,129)	0.999555	Y = 2.08e+000 X + 7.33e-005	7.32863183465736E-5	2.07584569751773
81	85 (166,178)	0.999483	Y = 4.14e-001 X + 4.93e-003	0.00492934003768014	0.41425444609818
82	87 (175,159)	0.999998	Y = 4.68e-001 X - 1.03e-003	-0.00103101525548302	0.467634060719357
83	88 (182,187)	0.999041	Y = 7.40e-001 X + 4.31e-002	0.0431444520726716	0.74048766353272
84	89 (128,162)	0.998513	Y = 1.23e+000 X + 1.68e-003	0.00168427296164815	1.2347085107884
85	90 (183)	0.999418	Y = 7.38e-001 X + 7.35e-003	0.00734895488083565	0.737869261484257
86	91 (167)	0.997702	Y = 6.97e-001 X - 6.78e-004	-0.00067802761216278	0.697452344771515
87	92 (185)	0.999809	Y = 1.10e+000 X + 1.27e-004	0.000126710100648242	1.09722799132178
88	93 (174,181)	0.999605	Y = 7.31e-001 X + 3.97e-002	0.0397425988632096	0.730965696178334
89	94 (177)	0.999699	Y = 6.63e-001 X + 1.78e-002	0.0177542042332162	0.66306552674561
90	95 (156,171)	0.999970	Y = 7.27e-001 X + 5.00e-004	0.00049956838222537	0.726791371848532
91	96 (157,202)	0.999938	Y = 5.33e+000 X - 1.42e-003	-0.00142158978368123	5.32753438231565
92	98 (173)	0.995540	Y = 9.83e-001 X - 5.97e-004	-0.00059674799997845	0.983006754453052
93	99 (201)	0.999711	Y = 6.89e-001 X + 1.89e-003	0.00189280132272013	0.689204899270352
94	100 (172,204)	0.999597	Y = 6.75e-001 X - 2.13e-003	-0.00213407351871187	0.674569244735893
95	101 (192,197)	0.999544	Y = 6.14e-001 X + 7.96e-005	7.95671656876329E-5	0.613501101132981
96	102 (180)	0.998992	Y = 8.50e-001 X + 9.48e-002	0.094784911068877	0.850045898080203
97	103 (193)	0.999797	Y = 7.76e-001 X - 1.36e-004	-0.00013631400454039	0.775682441553267
98	104 (191)	0.999957	Y = 7.47e-001 X - 1.86e-003	-0.00186153721612049	0.74721552687875
99	105 (200,169)	0.999994	Y = 8.00e-001 X + 2.05e-003	0.00204843158660473	0.800116401767276
100	106 (170)	0.999252	Y = 1.35e+000 X + 2.46e-002	0.0245611165549038	1.35428531745479
101	107 (190)	0.999550	Y = 1.22e+000 X + 2.41e-003	0.00240799470191699	1.21500230128087
102	108 (198)	0.997942	Y = 1.14e+000 X + 2.11e-003	0.00210686185370315	1.14304815363678
103	109 (199)	0.999040	Y = 5.23e-001 X + 2.29e-002	0.0228825575335123	0.523075146096841
104	110 (196,203)	0.999386	Y = 5.73e-001 X + 3.12e-002	0.0312359614306845	0.572530626759449
105	111 (189)	0.999019	Y = 1.15e+000 X - 3.94e-004	-0.00039384436168186	1.14605850679149
106	112 (195)	0.999551	Y = 1.62e+000 X - 1.58e-003	-0.00157775963149598	1.62123386319432
107	113 (208)	0.999912	Y = 6.18e-001 X - 7.60e-004	-0.00075990496905098	0.617872245201678
108	114 (207)	1.000000	Y = 1.15e+000 X + 1.09e-003	0.00108770629785634	1.15180476963398
109	115 (194)	0.999730	Y = 1.29e+000 X + 1.46e-002	0.0145905351184505	1.28509431821167
110	116 (205)	0.999785	Y = 9.81e-001 X - 3.65e-004	-0.00036523267932367	0.980914805049389
111	117 (206)	0.999803	Y = 1.26e+000 X + 1.68e-003	0.00167504967320498	1.25554080748953
112	118 (209)	0.995280	Y = 1.14e+000 X + 1.86e-004	0.000186144881709868	1.13851615009832
113	I.S. (OCN)	1.000000	Y = 9.44e+003 X	0	9436.05309740311

# Standards Raw Data (GC-16)



Sample Name: CCCS0922A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 09/22/2009 10:38:25 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-798-3

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/22/2009 10:38:25  
 Lab Sample ID: CCCS0922A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-798-3

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 125 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.50	15.61
Di	13.27	16.60
Tri	18.38	20.00
Tetra	21.68	20.87
Penta	7.99	6.82
Hexa	7.61	5.96
Hepta	12.95	9.20
Octa	6.96	4.54
Nona	0.65	0.39
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	8.5464	38.6	31.3
A1242	23+24/31+28	6.4996	29.3	23.8
A1254SED	61/100	1.5207	6.86	
A1254BIO	69+75+82/149+153+138	6.6196		24.3
A1260	102/180	4.3708	19.7	16.0
A1268	115/194	1.2318	5.56	4.52

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.08

Total Cl / biphenyl Residue = 3.66

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/22/2009 10:38:25  
 Lab Sample ID: CCCS0922A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-798-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2307	8.55	45.3			
3	12.83	188.7		-	-			
4	12.94	188.7	648	4.57	24.2			
5	13.54	223.1	1432	2.49	11.2			
6	14.41	223.1	3413	0.787	3.53			
7	14.72	223.1	2609	1.23	5.53			
8	14.91	223.1	12338	11.1	49.9			
9	15.48	223.1		-	-			
10	15.55	257.5	875	0.255	0.992			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.29	223.1	348	0.131	0.588			
14	16.42	249.0	11625	3.23	13.0			
15	16.51	257.5	5548	3.17	12.3			
16	16.81	257.5	1192	0.226	0.878			
17	17.06	257.5	10005	3.29	12.8			
19	17.52	267.9	73	0.0194	0.0725			
20	17.70	257.5	171	0.0267	0.104			
21	17.83	257.5	2306	0.565	2.19			
22	17.91	257.5	1213	0.197	0.763			
23	18.11	257.5	14925	3.04	11.8			
24	18.16	257.5	18735	3.46	13.4			
25	18.52	259.5	13098	3.10	11.9			
26	18.75	258.7	8360	2.15	8.32			
27	18.97	292.0	3386	0.709	2.43			
28	19.12	257.5		-	-			
29	19.25	292.0	1365	0.310	1.06			
30	19.39	257.5		-	-			
31	19.55	292.0	14865	4.34	14.9			
32	19.72	292.0	11935	1.79	6.12			
33	19.83	292.0	4661	0.497	1.70			
34	19.89	292.0	4784	0.693	2.37			
35	20.04	292.0		-	-			
36	20.15	257.5	93	0.0351	0.136			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	17668	3.39	11.6			
38	20.42	272.4	9381	2.18	8.00			
39	20.77	292.0	19624	2.94	10.1			
41	20.92	326.4	197	0.0470	0.144			
42	21.03	292.0	4115	0.728	2.49			
43	21.28	298.9	152	0.0265	0.0886			
44	21.46	298.9	494	0.0682	0.228			
45	21.62	292.0	885	0.112	0.385			
46	21.79	292.0	9384	0.993	3.40			
47	21.92	292.0	18635	2.42	8.28			
48	22.04	293.5	25519	4.94	16.8			
49	22.34	324.7	2184	0.342	1.05			
50	22.64	292.0	16468	2.14	7.34			
51	22.88	326.4	4758	1.55	4.74			
52	22.99	326.4	366	0.0527	0.161			
53	23.14	326.4	9083	1.38	4.23			
54	23.33	326.4	3989	0.386	1.18			
55	23.61	326.4	220	0.0121	0.0372			
56	23.71	326.4	839	0.129	0.394			
57	23.92	326.4	3666	0.398	1.22			
58	24.09	326.4	6334	0.881	2.70			
59	24.25	326.4	3250	0.364	1.11			
60	24.37	360.9	2977	0.410	1.14			
61	24.50	326.4	10003	1.52	4.66			
62	24.79	360.9	-	-	-			
63	24.87	326.4	2548	0.283	0.869			
64	25.17	360.9	9604	1.31	3.62			
65	25.30	350.5	2581	0.210	0.600			
66	25.37	360.9	1931	0.405	1.12			
67	25.44	336.8	529	0.0748	0.222			
68	25.52	326.4	99	0.0136	0.0415			
69	25.62	337.5	22863	2.80	8.30			
70	25.74	360.9	-	-	-			
71	26.03	347.8	1021	0.108	0.310			
72	26.23	336.8	194	0.0100	0.0297			
73	26.52	360.9	2066	0.223	0.618			
74	26.66	347.8	9016	0.864	2.49			
75	26.81	360.9	20062	2.00	5.54			
76	26.93	360.9	-	-	-			
77	27.35	360.9	6939	1.10	3.05			
78	27.42	395.3	8534	1.10	2.77			
79	27.63	360.9	162	0.0202	0.0559			
80	27.79	360.9	2819	0.164	0.454			
82	28.02	360.9	16649	1.82	5.04			
83	28.20	360.9	1422	0.120	0.332			
84	28.40	360.9	204	0.00315	0.00872			
85	28.76	395.3	3972	0.772	1.95			
87	29.06	395.3	745	0.118	0.297			
88	29.22	395.3	24765	2.74	6.94			
89	29.32	360.9	733	0.0484	0.134			
90	29.53	395.3	10151	1.17	2.95			
91	29.80	360.9	272	0.0162	0.0450			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.14	394.3	4000	0.313	0.795			
93	30.52	394.3	20674	2.37	6.01			
94	30.79	394.3	8797	1.14	2.89			
95	31.11	382.2	4173	0.504	1.32			
96	31.36	429.8	2770	0.0477	0.111			
98	31.54	395.3	255	0.0205	0.0519			
99	31.92	429.8	2218	0.287	0.667			
100	32.18	395.3	2793	0.370	0.935			
101	32.49	429.8	451	0.0590	0.137			
102	32.66	395.3	43628	4.37	11.1			
103	32.91	395.3	2128	0.258	0.653			
104	33.21	395.3	368	0.0430	0.109			
105	33.58	429.8	2772	0.324	0.754			
106	34.75	395.3	12330	0.816	2.06			
107	35.04	395.3	2868	0.226	0.572			
108	35.91	429.8	931	0.0747	0.174			
109	36.15	429.8	18314	3.15	7.32			
110	36.70	429.8	19723	3.11	7.23			
111	37.92	395.3	484	0.0364	0.0921			
112	39.46	429.8	5733	0.343	0.799			
113	39.99	464.2	1423	0.236	0.508			
114	40.98	464.2	935	0.0762	0.164			
115	42.40	429.8	16824	1.23	2.87			
116	43.31	429.8	623	0.0738	0.172			
117	48.54	464.2	6494	0.504	1.09			
118	54.73	498.6	60	0.00587	0.0118			

Total Concentration = 125 ng/mL

Total Nanomoles = 0.445

Average Molecular Weight = 280.4

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 171914.4

Northeast Analytical, Inc.  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/22/2009 10:38:25  
 Lab Sample ID: CCCS0922A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-798-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	6.844	10.171
3	12.83	1:0	002		3	-	-
4	12.94	1:0	003	0.2753	4	3.657	5.435
5	13.54	2:2	004 010	0.2881	2-2; 26	1.992	2.504
6	14.41	2:1	007 009	0.3066	24; 25	0.630	0.792
7	14.72	2:1	006	0.3132	2-3	0.988	1.242
8	14.91	2:1	005 008	0.3172	23; 2-4	8.913	11.203
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	0.205	0.223
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013	0.3466	34; 3-4	0.105	0.132
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	2.585	2.911
15	16.51	3:2	017	0.3513	24-2	2.542	2.768
16	16.81	3:2	024 027	0.3577	236; 26-3	0.181	0.197
17	17.06	3:2	016 032	0.3630	23-2; 26-4	2.636	2.870
19	17.52	3:1 4:4	023 034 054	0.3728	235; 35-2; 26-26	0.016	0.016
20	17.70	3:1	029	0.3766	245	0.021	0.023
21	17.83	3:1	026	0.3794	25-3	0.453	0.493
22	17.91	3:1	025	0.3811	24-3	0.157	0.171
23	18.11	3:1	031	0.3853	25-4	2.432	2.648
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	2.773	3.020
25	18.52	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.479	2.679
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	1.725	1.869
27	18.97	4:3	045	0.4036	236-2	0.567	0.545
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4096	23-26	0.248	0.238
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.477	3.339
32	19.72	4:2	043 049	0.4196	235-2; 24-25	1.431	1.374
33	19.83	4:2	038 047	0.4219	345; 24-24	0.398	0.383
34	19.89	4:2	048 075	0.4232	245-2; 246-4	0.555	0.533
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.15	3:0	035	0.4287	34-3	0.028	0.031
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	2.717	2.609
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.744	1.796
39	20.77	4:2	041 064 071 072	0.4419	234-2; 236-4; 26-34; 25-35	2.355	2.262

DB-1 Peak <sup>1</sup>	Retention	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.92	5:4	068 096	0.4451	24-35; 236-26	0.038	0.032
42	21.03	4:2	040	0.4474	23-23	0.583	0.560
43	21.28	4:1 5:3	057 103	0.4528	235-3; 246-25	0.021	0.020
44	21.46	4:1 5:3	058 067 100	0.4566	23-35; 245-3; 246-24	0.055	0.051
45	21.62	4:1	063	0.4600	235-4	0.090	0.086
46	21.79	4:1 5:3	074 094 061	0.4636	245-4; 235-26; 2345	0.795	0.763
47	21.92	4:1	070	0.4664	25-34	1.936	1.859
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.960	3.784
49	22.34	4:1 5:3	055 091 121	0.4753	234-3; 236-24; 246-35	0.273	0.236
50	22.64	4:1	056 060	0.4817	23-34; 234-4	1.717	1.649
51	22.88	5:3 6:4	084 092 155	0.4868	236-23; 235-25; 246-246	1.239	1.064
52	22.99	5:3	089	0.4891	234-26	0.042	0.036
53	23.14	5:2	090 101	0.4923	235-24; 245-25	1.106	0.950
54	23.33	5:2	079 099 113	0.4964	34-35; 245-24; 236-35	0.309	0.265
55	23.61	5:2 6:4	119 150	0.5023	246-34; 236-246	0.010	0.008
56	23.71	5:2	078 083 112 108	0.5045	345-3; 235-23; 2356-3; 2346-3	0.103	0.089
57	23.92	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	0.319	0.274
58	24.09	5:2	081 087 117 125 115 145	0.5126	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.705	0.606
59	24.25	5:2	116 085 111	0.5160	23456; 234-24; 235-35	0.291	0.250
60	24.37	6:4	120 136	0.5185	245-35; 236-236	0.329	0.255
61	24.50	5:2	077 110 148	0.5213	34-34; 236-34; 235-246	1.218	1.046
62	24.79	6:3	154		245-246	-	-
63	24.87	5:2	082	0.5291	234-23	0.227	0.195
64	25.17	6:3	151	0.5355	2356-25	1.047	0.814
65	25.30	5:1 6:3	124 135	0.5383	345-25; 235-236	0.169	0.135
66	25.37	6:3	144	0.5398	2346-25	0.324	0.252
67	25.44	5:1 6:3	107 109 147	0.5413	234-35; 235-34; 2356-24	0.060	0.050
68	25.52	5:1	123	0.5430	345-24	0.011	0.009
69	25.62	5:1 6:3	106 118 139 149	0.5451	2345-3; 245-34; 2346-24; 236-245	2.244	1.864
70	25.74	6:3	140		234-246	-	-
71	26.03	5:1 6:3	114 134 143	0.5538	2345-4; 2356-23; 2345-26	0.086	0.070
72	26.23	5:1 6:3	122 131 133 142	0.5581	345-23; 2346-23; 235-235; 23456-2	0.008	0.007
73	26.52	6:2	146 165 188	0.5643	235-245; 2356-35; 2356-246	0.179	0.139
74	26.66	5:1 6:3	105 132 161	0.5672	234-34; 234-236; 2346-35	0.692	0.558
75	26.81	6:2	153	0.5704	245-245	1.601	1.244
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141	0.5819	2345-25	0.881	0.685
78	27.42	7:4	179	0.5834	2356-236	0.877	0.622
79	27.63	6:2	137	0.5879	2345-24	0.016	0.013
80	27.79	6:2 7:4	130 176	0.5913	234-235; 2346-236	0.131	0.102
82	28.02	6:2	138 163 164	0.5962	234-245; 2356-34; 236-345	1.456	1.131
83	28.20	6:2	158 160 186	0.6000	2346-34; 23456-3; 23456-26	0.096	0.075
84	28.40	6:2	126 129	0.6043	345-34; 2345-23	0.003	0.002
85	28.76	7:3	166 178	0.6119	23456-4; 2356-235	0.619	0.439
87	29.06	7:3	175 159	0.6183	2346-235; 2345-35	0.094	0.067
88	29.22	7:3	182 187	0.6217	2345-246; 2356-245	2.198	1.559
89	29.32	6:2	128 162	0.6238	234-234; 235-345	0.039	0.030
90	29.53	7:3	183	0.6283	2346-245	0.935	0.663
91	29.80	6:1	167	0.6340	245-345	0.013	0.010
92	30.14	7:3	185	0.6413	23456-25	0.251	0.178
93	30.52	7:3	174 181	0.6494	2345-236; 23456-24	1.897	1.349
94	30.79	7:3	177	0.6551	2356-234	0.913	0.649
95	31.11	6:1 7:3	156 171	0.6619	2345-34; 2346-234	0.404	0.296
96	31.36	8:4	157 202	0.6672	234-345; 2356-2356	0.038	0.025
98	31.54	7:3	173	0.6711	23456-23	0.016	0.012
99	31.92	8:4	201	0.6791	2346-2356	0.229	0.150
100	32.18	7:2	172 204	0.6847	2345-235; 23456-246	0.296	0.210
101	32.49	8:4	192 197	0.6913	23456-35; 2346-2346	0.047	0.031
102	32.66	7:2	180	0.6949	2345-245	3.500	2.483
103	32.91	7:2	193	0.7002	2356-345	0.207	0.147
104	33.21	7:2	191	0.7066	2346-345	0.034	0.024
105	33.58	8:4	200 169	0.7145	23456-236; 345-345	0.260	0.169
106	34.75	7:2	170	0.7394	2345-234	0.654	0.464

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>	0.7455	23456-34	0.181	0.128
108	35.91	8:3	<b>198</b>	0.7640	23456-235	0.060	0.039
109	36.15	8:3	<b>199</b>	0.7691	2345-2356	2.520	1.644
110	36.70	8:3	<b>196 203</b>	0.7809	2345-2346; 23456-245	2.488	1.624
111	37.92	7:1	<b>189</b>	0.8068	2345-345	0.029	0.021
112	39.46	8:3	<b>195</b>	0.8396	23456-234	0.275	0.179
113	39.99	9:4	<b>208</b>	0.8509	23456-2356	0.189	0.114
114	40.98	9:4	<i>207</i>	0.8719	23456-2346	0.061	0.037
115	42.40	8:2	<b>194</b>	0.9021	2345-2345	0.986	0.644
116	43.31	8:2	<b>205</b>	0.9215	23456-345	0.059	0.039
117	48.54	9:3	<b>206</b>	1.033	23456-2345	0.404	0.244
118	54.73	10:4	<i>209</i>	1.164	23456-23456	0.005	0.003

Concentration = 125 ng/mL

Total Nanomoles = 0.445

Average Molecular Weight = 280.4

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

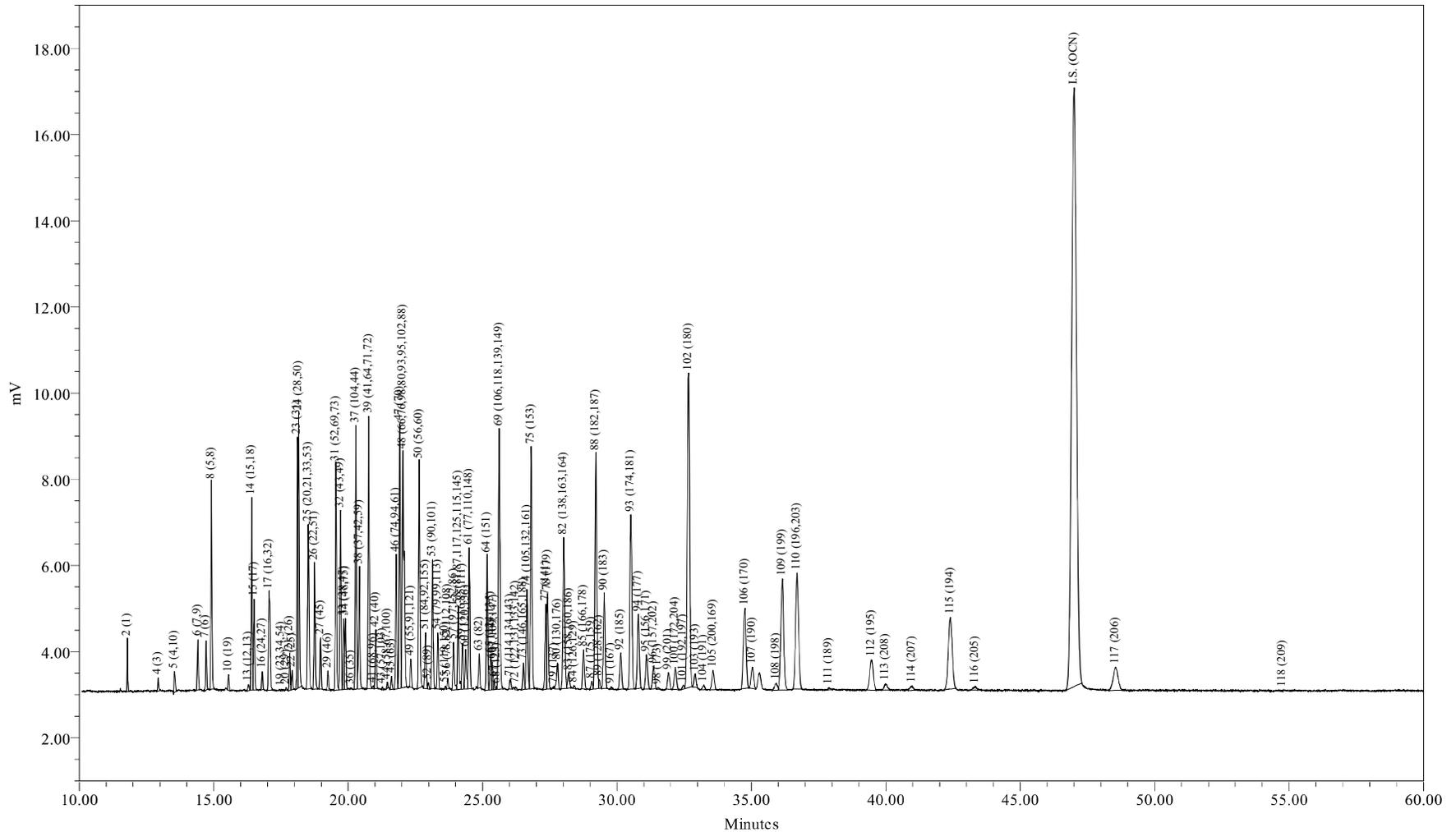
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>



Sample Name: CCCS0922B  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 09/22/2009 18:30:15 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-798-10

Sample Name: CCCS0922B

1 of 1

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 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/22/2009 18:30:15  
 Lab Sample ID: CCCS0922B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-798-10

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 126 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.44	15.52
Di	13.17	16.48
Tri	18.48	20.12
Tetra	21.62	20.83
Penta	8.05	6.88
Hexa	7.72	6.05
Hepta	12.87	9.15
Octa	7.03	4.59
Nona	0.62	0.38
Deca	0.01	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	8.4975	38.2	31.0
A1242	23+24/31+28	6.5641	29.5	24.0
A1254SED	61/100	1.5836	7.12	
A1254BIO	69+75+82/149+153+138	6.7417		24.6
A1260	102/180	4.3686	19.7	16.0
A1268	115/194	1.2166	5.47	4.44

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.09

Total Cl / biphenyl Residue = 3.67

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/22/2009 18:30:15  
 Lab Sample ID: CCCS0922B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-798-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2340	8.50	45.0			
3	12.83	188.7		-	-			
4	12.93	188.7	670	4.62	24.5			
5	13.54	223.1	1393	2.37	10.6			
6	14.41	223.1	3424	0.774	3.47			
7	14.72	223.1	2727	1.26	5.67			
8	14.91	223.1	12613	11.2	50.0			
9	15.48	223.1		-	-			
10	15.55	257.5	903	0.258	1.00			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.30	223.1	504	0.185	0.828			
14	16.42	249.0	12001	3.27	13.1			
15	16.51	257.5	5674	3.18	12.4			
16	16.81	257.5	1142	0.212	0.824			
17	17.06	257.5	10301	3.32	12.9			
19	17.52	267.9	103	0.0269	0.100			
20	17.70	257.5	118	0.0181	0.0704			
21	17.83	257.5	2422	0.582	2.26			
22	17.91	257.5	1274	0.202	0.786			
23	18.11	257.5	15457	3.08	12.0			
24	18.16	257.5	19217	3.48	13.5			
25	18.52	259.5	13530	3.13	12.1			
26	18.75	258.7	8819	2.23	8.61			
27	18.98	292.0	3295	0.676	2.31			
28	19.12	257.5		-	-			
29	19.25	292.0	1279	0.284	0.973			
30	19.39	257.5		-	-			
31	19.55	292.0	15147	4.34	14.8			
32	19.72	292.0	12124	1.78	6.09			
33	19.83	292.0	4814	0.504	1.73			
34	19.90	292.0	4933	0.701	2.40			
35	20.04	292.0		-	-			
36	20.12	257.5	81	0.0299	0.116			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	18101	3.41	11.7			
38	20.42	272.4	9898	2.25	8.27			
39	20.77	292.0	20100	2.95	10.1			
41	20.94	326.4	176	0.0411	0.126			
42	21.03	292.0	4128	0.716	2.45			
43	21.27	298.9	172	0.0294	0.0984			
44	21.45	298.9	344	0.0468	0.157			
45	21.62	292.0	965	0.120	0.412			
46	21.79	292.0	9771	1.01	3.47			
47	21.92	292.0	19415	2.47	8.46			
48	22.04	293.5	26214	4.98	17.0			
49	22.33	324.7	2025	0.311	0.957			
50	22.64	292.0	16982	2.17	7.42			
51	22.88	326.4	4881	1.56	4.77			
52	22.98	326.4	416	0.0586	0.180			
53	23.14	326.4	9316	1.39	4.25			
54	23.33	326.4	4192	0.397	1.22			
55	23.62	326.4	180	0.00974	0.0298			
56	23.71	326.4	705	0.106	0.325			
57	23.92	326.4	3922	0.417	1.28			
58	24.10	326.4	6696	0.912	2.80			
59	24.25	326.4	3511	0.385	1.18			
60	24.37	360.9	3326	0.449	1.24			
61	24.50	326.4	10630	1.58	4.85			
62	24.79	360.9	-	-	-			
63	24.87	326.4	2484	0.271	0.830			
64	25.17	360.9	9880	1.32	3.65			
65	25.30	350.5	2677	0.214	0.610			
66	25.36	360.9	2076	0.427	1.18			
67	25.44	336.8	578	0.0801	0.238			
68	25.53	326.4	178	0.0240	0.0736			
69	25.62	337.5	23750	2.85	8.45			
70	25.74	360.9	-	-	-			
71	26.03	347.8	906	0.0938	0.270			
72	26.23	336.8	301	0.0152	0.0451			
73	26.52	360.9	2265	0.240	0.664			
74	26.66	347.8	9430	0.886	2.55			
75	26.81	360.9	21098	2.06	5.71			
76	26.93	360.9	-	-	-			
77	27.35	360.9	7293	1.13	3.14			
78	27.42	395.3	8747	1.10	2.78			
79	27.65	360.9	155	0.0189	0.0524			
80	27.79	360.9	2729	0.155	0.431			
82	28.02	360.9	17074	1.83	5.06			
83	28.21	360.9	1518	0.125	0.347			
84	28.40	360.9	280	0.00419	0.0116			
85	28.76	395.3	3991	0.761	1.92			
87	29.06	395.3	851	0.131	0.333			
88	29.21	395.3	25528	2.77	7.02			
89	29.33	360.9	662	0.0429	0.119			
90	29.52	395.3	10268	1.16	2.93			
91	29.78	360.9	192	0.0114	0.0316			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.14	394.3	4187	0.321	0.815			
93	30.52	394.3	21115	2.37	6.01			
94	30.80	394.3	9035	1.15	2.91			
95	31.10	382.2	4182	0.495	1.30			
96	31.37	429.8	2811	0.0474	0.110			
98	31.53	395.3	194	0.0151	0.0382			
99	31.92	429.8	2088	0.264	0.615			
100	32.17	395.3	2863	0.371	0.939			
101	32.46	429.8	451	0.0578	0.135			
102	32.66	395.3	44491	4.37	11.1			
103	32.91	395.3	1641	0.195	0.493			
104	33.23	395.3	602	0.0688	0.174			
105	33.58	429.8	2712	0.311	0.723			
106	34.76	395.3	12711	0.825	2.09			
107	35.03	395.3	3185	0.246	0.622			
108	35.92	429.8	1232	0.0976	0.227			
109	36.15	429.8	19160	3.23	7.51			
110	36.70	429.8	20374	3.15	7.32			
111	37.89	395.3	314	0.0231	0.0584			
112	39.47	429.8	6577	0.386	0.898			
113	39.99	464.2	1178	0.191	0.411			
114	40.98	464.2	888	0.0710	0.153			
115	42.40	429.8	16958	1.22	2.83			
116	43.33	429.8	702	0.0816	0.190			
117	48.55	464.2	6852	0.521	1.12			
118	54.75	498.6	68	0.00650	0.0130			

Total Concentration = 126 ng/mL

Total Nanomoles = 0.448

Average Molecular Weight = 280.6

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 175405.4

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/22/2009 18:30:15  
 Lab Sample ID: CCCS0922B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-798-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	6.758	10.050
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003	0.2751	4	3.678	5.470
5	13.54	2:2	004 010	0.2881	2-2; 26	1.887	2.373
6	14.41	2:1	007 009	0.3066	24; 25	0.616	0.774
7	14.72	2:1	006	0.3132	2-3	1.006	1.265
8	14.91	2:1	005 008	0.3172	23; 2-4	8.869	11.155
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	0.206	0.224
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.30	2:0	012 013	0.3468	34; 3-4	0.147	0.185
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	2.598	2.927
15	16.51	3:2	017	0.3513	24-2	2.530	2.757
16	16.81	3:2	024 027	0.3577	236; 26-3	0.169	0.184
17	17.06	3:2	016 032	0.3630	23-2; 26-4	2.641	2.879
19	17.52	3:1 4:4	023 034 054	0.3728	235; 35-2; 26-26	0.021	0.022
20	17.70	3:1	029	0.3766	245	0.014	0.016
21	17.83	3:1	026	0.3794	25-3	0.463	0.504
22	17.91	3:1	025	0.3811	24-3	0.161	0.175
23	18.11	3:1	031	0.3853	25-4	2.452	2.672
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	2.769	3.018
25	18.52	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.493	2.696
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	1.771	1.921
27	18.98	4:3	045	0.4038	236-2	0.537	0.516
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4096	23-26	0.226	0.217
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.448	3.314
32	19.72	4:2	043 049	0.4196	235-2; 24-25	1.415	1.359
33	19.83	4:2	038 047	0.4219	345; 24-24	0.401	0.385
34	19.90	4:2	048 075	0.4234	245-2; 246-4	0.557	0.536
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.12	3:0	035	0.4281	34-3	0.024	0.026
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	2.710	2.604
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.791	1.846

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.77	4:2	041 064 071 072	0.4419	234-2; 236-4; 26-34; 25-35	2.348	2.257
41	20.94	5:4	068 096	0.4455	24-35; 236-26	0.033	0.028
42	21.03	4:2	040	0.4474	23-23	0.569	0.547
43	21.27	4:1 5:3	057 103	0.4526	235-3; 246-25	0.023	0.022
44	21.45	4:1 5:3	058 067 100	0.4564	23-35; 245-3; 246-24	0.037	0.035
45	21.62	4:1	063	0.4600	235-4	0.096	0.092
46	21.79	4:1 5:3	074 094 061	0.4636	245-4; 235-26; 2345	0.806	0.774
47	21.92	4:1	070	0.4664	25-34	1.964	1.887
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.960	3.786
49	22.33	4:1 5:3	055 091 121	0.4751	234-3; 236-24; 246-35	0.247	0.214
50	22.64	4:1	056 060	0.4817	23-34; 234-4	1.723	1.656
51	22.88	5:3 6:4	084 092 155	0.4868	236-23; 235-25; 246-246	1.237	1.064
52	22.98	5:3	089	0.4889	234-26	0.047	0.040
53	23.14	5:2	090 101	0.4923	235-24; 245-25	1.104	0.949
54	23.33	5:2	079 099 113	0.4964	34-35; 245-24; 236-35	0.316	0.272
55	23.62	5:2 6:4	119 150	0.5026	246-34; 236-246	0.008	0.007
56	23.71	5:2	078 083 112 108	0.5045	345-3; 235-23; 2356-3; 2346-3	0.084	0.073
57	23.92	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	0.332	0.285
58	24.10	5:2	081 087 117 125 115 145	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.726	0.624
59	24.25	5:2	116 085 111	0.5160	23456; 234-24; 235-35	0.306	0.263
60	24.37	6:4	120 136	0.5185	245-35; 236-236	0.357	0.278
61	24.50	5:2	077 110 148	0.5213	34-34; 236-34; 235-246	1.259	1.083
62	24.79	6:3	154		245-246	-	-
63	24.87	5:2	082	0.5291	234-23	0.215	0.185
64	25.17	6:3	151	0.5355	2356-25	1.049	0.816
65	25.30	5:1 6:3	124 135	0.5383	345-25; 235-236	0.170	0.136
66	25.36	6:3	144	0.5396	2346-25	0.339	0.264
67	25.44	5:1 6:3	107 109 147	0.5413	234-35; 235-34; 2356-24	0.064	0.053
68	25.53	5:1	123	0.5432	345-24	0.019	0.016
69	25.62	5:1 6:3	106 118 139 149	0.5451	2345-3; 245-34; 2346-24; 236-245	2.269	1.887
70	25.74	6:3	140		234-246	-	-
71	26.03	5:1 6:3	114 134 143	0.5538	2345-4; 2356-23; 2345-26	0.075	0.060
72	26.23	5:1 6:3	122 131 133 142	0.5581	345-23; 2346-23; 235-235; 23456-2	0.012	0.010
73	26.52	6:2	146 165 188	0.5643	235-245; 2356-35; 2356-246	0.191	0.148
74	26.66	5:1 6:3	105 132 161	0.5672	234-34; 234-236; 2346-35	0.705	0.569
75	26.81	6:2	153	0.5704	245-245	1.639	1.275
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141	0.5819	2345-25	0.901	0.701
78	27.42	7:4	179	0.5834	2356-236	0.875	0.621
79	27.65	6:2	137	0.5883	2345-24	0.015	0.012
80	27.79	6:2 7:4	130 176	0.5913	234-235; 2346-236	0.124	0.096
82	28.02	6:2	138 163 164	0.5962	234-245; 2356-34; 236-345	1.453	1.130
83	28.21	6:2	158 160 186	0.6002	2346-34; 23456-3; 23456-26	0.100	0.078
84	28.40	6:2	126 129	0.6043	345-34; 2345-23	0.003	0.003
85	28.76	7:3	166 178	0.6119	23456-4; 2356-235	0.605	0.429
87	29.06	7:3	175 159	0.6183	2346-235; 2345-35	0.105	0.074
88	29.21	7:3	182 187	0.6215	2345-246; 2356-245	2.206	1.566
89	29.33	6:2	128 162	0.6240	234-234; 235-345	0.034	0.027
90	29.52	7:3	183	0.6281	2346-245	0.921	0.653
91	29.78	6:1	167	0.6336	245-345	0.009	0.007
92	30.14	7:3	185	0.6413	23456-25	0.256	0.182
93	30.52	7:3	174 181	0.6494	2345-236; 23456-24	1.885	1.342
94	30.80	7:3	177	0.6553	2356-234	0.913	0.649
95	31.10	6:1 7:3	156 171	0.6617	2345-34; 2346-234	0.394	0.289
96	31.37	8:4	157 202	0.6674	234-345; 2356-2356	0.038	0.025
98	31.53	7:3	173	0.6709	23456-23	0.012	0.009
99	31.92	8:4	201	0.6791	2346-2356	0.210	0.137
100	32.17	7:2	172 204	0.6845	2345-235; 23456-246	0.295	0.210
101	32.46	8:4	192 197	0.6906	23456-35; 2346-2346	0.046	0.030
102	32.66	7:2	180	0.6949	2345-245	3.474	2.466
103	32.91	7:2	193	0.7002	2356-345	0.155	0.110
104	33.23	7:2	191	0.7070	2346-345	0.055	0.039

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.58	8:4	<b>200</b> 169	0.7145	23456-236; 345-345	0.247	0.161
106	34.76	7:2	<b>170</b>	0.7396	2345-234	0.656	0.466
107	35.03	7:2	<b>190</b>	0.7453	23456-34	0.196	0.139
108	35.92	8:3	<b>198</b>	0.7643	23456-235	0.078	0.051
109	36.15	8:3	<b>199</b>	0.7691	2345-2356	2.566	1.676
110	36.70	8:3	<b>196</b> <b>203</b>	0.7809	2345-2346; 23456-245	2.502	1.634
111	37.89	7:1	<b>189</b>	0.8062	2345-345	0.018	0.013
112	39.47	8:3	<b>195</b>	0.8398	23456-234	0.307	0.200
113	39.99	9:4	<b>208</b>	0.8509	23456-2356	0.152	0.092
114	40.98	9:4	<b>207</b>	0.8719	23456-2346	0.056	0.034
115	42.40	8:2	<b>194</b>	0.9021	2345-2345	0.968	0.632
116	43.33	8:2	<b>205</b>	0.9219	23456-345	0.065	0.042
117	48.55	9:3	<b>206</b>	1.033	23456-2345	0.415	0.251
118	54.75	10:4	<b>209</b>	1.165	23456-23456	0.005	0.003

Concentration = 126 ng/mL

Total Nanomoles = 0.448

Average Molecular Weight = 280.6

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



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Sample Name: CCCS0922A Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/22/2009 10:38:25 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 09/22/2009 19:24:50  
Sample Set Name: GC16\_092209c User Name: Kari Lantiegne  
Processing Method: CSGB\_LL1X\_082309 Current Time: 21:06:20  
Run Time: 60 Minutes Current Date: 09/24/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-798-3

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2307	8.546	8.546
2	4 (3)	12.94	648	4.567	4.567
3	5 (4,10)	13.54	1432	2.488	2.488
4	6 (7,9)	14.41	3413	0.787	0.787
5	7 (6)	14.72	2609	1.234	1.234
6	8 (5,8)	14.91	12338	11.130	11.130
7	10 (19)	15.55	875	0.255	0.255
8	13 (12,13)	16.29	348	0.131	0.131
9	14 (15,18)	16.42	11625	3.228	3.228
10	15 (17)	16.51	5548	3.174	3.174
11	16 (24,27)	16.81	1192	0.226	0.226
12	17 (16,32)	17.06	10005	3.291	3.291
13	19 (23,34,54)	17.52	73	0.019	0.019
14	20 (29)	17.70	171	0.027	0.027
15	21 (26)	17.83	2306	0.565	0.565
16	22 (25)	17.91	1213	0.197	0.197
17	23 (31)	18.11	14925	3.036	3.036
18	24 (28,50)	18.16	18735	3.463	3.463
19	25 (20,21,33,53)	18.52	13098	3.096	3.096
20	26 (22,51)	18.75	8360	2.154	2.154
21	27 (45)	18.97	3386	0.709	0.709
22	29 (46)	19.25	1365	0.310	0.310
23	31 (52,69,73)	19.55	14865	4.342	4.342
24	32 (43,49)	19.72	11935	1.786	1.786
25	33 (38,47)	19.83	4661	0.497	0.497
26	34 (48,75)	19.89	4784	0.693	0.693
27	36 (35)	20.15	93	0.035	0.035
28	37 (104,44)	20.29	17668	3.393	3.393
29	38 (37,42,59)	20.42	9381	2.178	2.178
30	39 (41,64,71,72)	20.77	19624	2.941	2.941
31	41 (68,96)	20.92	197	0.047	0.047
32	42 (40)	21.03	4115	0.728	0.728
33	43 (57,103)	21.28	152	0.026	0.026

CCCS0922A

1 of 3

Print Date: 09/24/2009  
Nea Lims Version : 5.0.0.0

34	44 (58,67,100)	21.46	494	0.068	0.068
35	45 (63)	21.62	885	0.112	0.112
36	46 (74,94,61)	21.79	9384	0.993	0.993
37	47 (70)	21.92	18635	2.418	2.418
38	48 (66,76,98,80,93,95,	22.04	25519	4.945	4.945
39	49 (55,91,121)	22.34	2184	0.342	0.342
40	50 (56,60)	22.64	16468	2.144	2.144
41	51 (84,92,155)	22.88	4758	1.547	1.547
42	52 (89)	22.99	366	0.053	0.053
43	53 (90,101)	23.14	9083	1.381	1.381
44	54 (79,99,113)	23.33	3989	0.386	0.386
45	55 (119,150)	23.61	220	0.012	0.012
46	56 (78,83,112,108)	23.71	839	0.129	0.129
47	57 (97,152,86)	23.92	3666	0.398	0.398
48	58 (81,87,117,125,115)	24.09	6334	0.881	0.881
49	59 (116,85,111)	24.25	3250	0.364	0.364
50	60 (120,136)	24.37	2977	0.410	0.410
51	61 (77,110,148)	24.50	10003	1.521	1.521
52	63 (82)	24.87	2548	0.283	0.283
53	64 (151)	25.17	9604	1.308	1.308
54	65 (124,135)	25.30	2581	0.210	0.210
55	66 (144)	25.37	1931	0.405	0.405
56	67 (107,109,147)	25.44	529	0.075	0.075
57	68 (123)	25.52	99	0.014	0.014
58	69 (106,118,139,149)	25.62	22863	2.802	2.802
59	71 (114,134,143)	26.03	1021	0.108	0.108
60	72 (122,131,133,142)	26.23	194	0.010	0.010
61	73 (146,165,188)	26.52	2066	0.223	0.223
62	74 (105,132,161)	26.66	9016	0.864	0.864
63	75 (153)	26.81	20062	2.000	2.000
64	77 (141)	27.35	6939	1.100	1.100
65	78 (179)	27.42	8534	1.095	1.095
66	79 (137)	27.63	162	0.020	0.020
67	80 (130,176)	27.79	2819	0.164	0.164
68	82 (138,163,164)	28.02	16649	1.818	1.818
69	83 (158,160,186)	28.20	1422	0.120	0.120
70	84 (126,129)	28.40	204	0.003	0.003
71	85 (166,178)	28.76	3972	0.772	0.772
72	87 (175,159)	29.06	745	0.118	0.118
73	88 (182,187)	29.22	24765	2.745	2.745
74	89 (128,162)	29.32	733	0.048	0.048
75	90 (183)	29.53	10151	1.167	1.167
76	91 (167)	29.80	272	0.016	0.016
77	92 (185)	30.14	4000	0.313	0.313
78	93 (174,181)	30.52	20674	2.368	2.368
79	94 (177)	30.79	8797	1.140	1.140
80	95 (156,171)	31.11	4173	0.504	0.504
81	96 (157,202)	31.36	2770	0.048	0.048
82	98 (173)	31.54	255	0.021	0.021
83	99 (201)	31.92	2218	0.287	0.287
84	100 (172,204)	32.18	2793	0.370	0.370

85	101 (192,197)	32.49	451	0.059	0.059
86	102 (180)	32.66	43628	4.371	4.371
87	103 (193)	32.91	2128	0.258	0.258
88	104 (191)	33.21	368	0.043	0.043
89	105 (200,169)	33.58	2772	0.324	0.324
90	106 (170)	34.75	12330	0.816	0.816
91	107 (190)	35.04	2868	0.226	0.226
92	108 (198)	35.91	931	0.075	0.075
93	109 (199)	36.15	18314	3.147	3.147
94	110 (196,203)	36.70	19723	3.107	3.107
95	111 (189)	37.92	484	0.036	0.036
96	112 (195)	39.46	5733	0.343	0.343
97	113 (208)	39.99	1423	0.236	0.236
98	114 (207)	40.98	935	0.076	0.076
99	115 (194)	42.40	16824	1.232	1.232
100	116 (205)	43.31	623	0.074	0.074
101	117 (206)	48.54	6494	0.504	0.504
102	118 (209)	54.73	60	0.006	0.006
103	Sum			124.874	124.874



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Sample Name:	CCCS0922B	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	09/22/2009 18:30:15	Extract Volume:	1
Project Name:	GC16_May_2009	Date Processed:	09/24/2009 01:05:56
Sample Set Name:	GC16_092209c	User Name:	Kari Lantiegne
Processing Method:	CSGB_LL1X_082309	Current Time:	21:06:21
Run Time:	60 Minutes	Current Date:	09/24/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC16-798-10

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2340	8.497	8.497
2	4 (3)	12.93	670	4.625	4.625
3	5 (4,10)	13.54	1393	2.372	2.372
4	6 (7,9)	14.41	3424	0.774	0.774
5	7 (6)	14.72	2727	1.265	1.265
6	8 (5,8)	14.91	12613	11.151	11.151
7	10 (19)	15.55	903	0.258	0.258
8	13 (12,13)	16.30	504	0.185	0.185
9	14 (15,18)	16.42	12001	3.266	3.266
10	15 (17)	16.51	5674	3.182	3.182
11	16 (24,27)	16.81	1142	0.212	0.212
12	17 (16,32)	17.06	10301	3.321	3.321
13	19 (23,34,54)	17.52	103	0.027	0.027
14	20 (29)	17.70	118	0.018	0.018
15	21 (26)	17.83	2422	0.582	0.582
16	22 (25)	17.91	1274	0.202	0.202
17	23 (31)	18.11	15457	3.082	3.082
18	24 (28,50)	18.16	19217	3.482	3.482
19	25 (20,21,33,53)	18.52	13530	3.135	3.135
20	26 (22,51)	18.75	8819	2.227	2.227
21	27 (45)	18.98	3295	0.676	0.676
22	29 (46)	19.25	1279	0.284	0.284
23	31 (52,69,73)	19.55	15147	4.336	4.336
24	32 (43,49)	19.72	12124	1.779	1.779
25	33 (38,47)	19.83	4814	0.504	0.504
26	34 (48,75)	19.90	4933	0.701	0.701
27	36 (35)	20.12	81	0.030	0.030
28	37 (104,44)	20.29	18101	3.407	3.407
29	38 (37,42,59)	20.42	9898	2.253	2.253
30	39 (41,64,71,72)	20.77	20100	2.952	2.952
31	41 (68,96)	20.94	176	0.041	0.041
32	42 (40)	21.03	4128	0.716	0.716
33	43 (57,103)	21.27	172	0.029	0.029

CCCS0922B

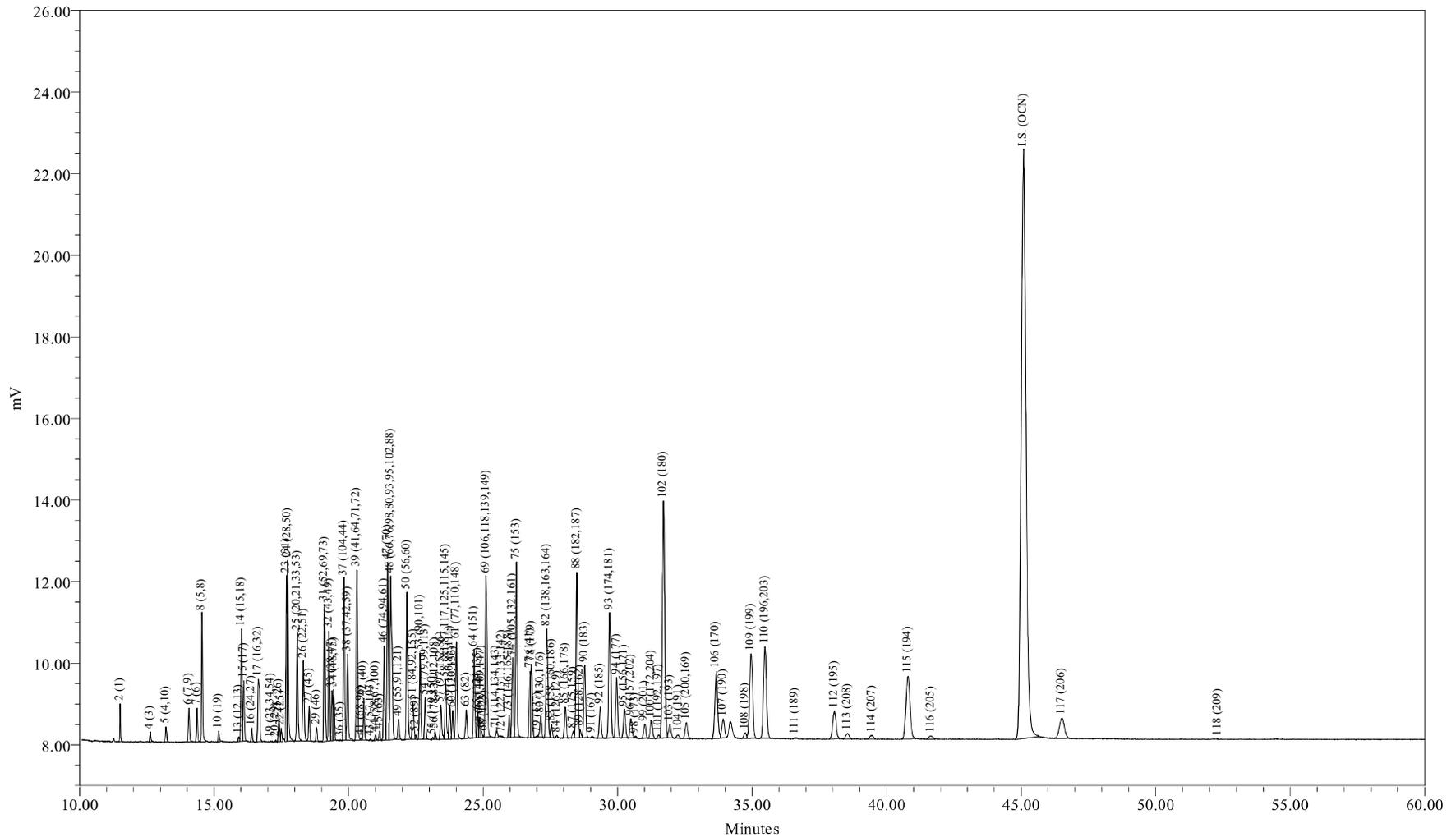
1 of 3

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34	44 (58,67,100)	21.45	344	0.047	0.047
35	45 (63)	21.62	965	0.120	0.120
36	46 (74,94,61)	21.79	9771	1.013	1.013
37	47 (70)	21.92	19415	2.469	2.469
38	48 (66,76,98,80,93,95,	22.04	26214	4.979	4.979
39	49 (55,91,121)	22.33	2025	0.311	0.311
40	50 (56,60)	22.64	16982	2.167	2.167
41	51 (84,92,155)	22.88	4881	1.556	1.556
42	52 (89)	22.98	416	0.059	0.059
43	53 (90,101)	23.14	9316	1.388	1.388
44	54 (79,99,113)	23.33	4192	0.397	0.397
45	55 (119,150)	23.62	180	0.010	0.010
46	56 (78,83,112,108)	23.71	705	0.106	0.106
47	57 (97,152,86)	23.92	3922	0.417	0.417
48	58 (81,87,117,125,115)	24.10	6696	0.912	0.912
49	59 (116,85,111)	24.25	3511	0.385	0.385
50	60 (120,136)	24.37	3326	0.449	0.449
51	61 (77,110,148)	24.50	10630	1.584	1.584
52	63 (82)	24.87	2484	0.271	0.271
53	64 (151)	25.17	9880	1.319	1.319
54	65 (124,135)	25.30	2677	0.214	0.214
55	66 (144)	25.36	2076	0.427	0.427
56	67 (107,109,147)	25.44	578	0.080	0.080
57	68 (123)	25.53	178	0.024	0.024
58	69 (106,118,139,149)	25.62	23750	2.853	2.853
59	71 (114,134,143)	26.03	906	0.094	0.094
60	72 (122,131,133,142)	26.23	301	0.015	0.015
61	73 (146,165,188)	26.52	2265	0.240	0.240
62	74 (105,132,161)	26.66	9430	0.886	0.886
63	75 (153)	26.81	21098	2.061	2.061
64	77 (141)	27.35	7293	1.133	1.133
65	78 (179)	27.42	8747	1.100	1.100
66	79 (137)	27.65	155	0.019	0.019
67	80 (130,176)	27.79	2729	0.155	0.155
68	82 (138,163,164)	28.02	17074	1.828	1.828
69	83 (158,160,186)	28.21	1518	0.125	0.125
70	84 (126,129)	28.40	280	0.004	0.004
71	85 (166,178)	28.76	3991	0.761	0.761
72	87 (175,159)	29.06	851	0.131	0.131
73	88 (182,187)	29.21	25528	2.773	2.773
74	89 (128,162)	29.33	662	0.043	0.043
75	90 (183)	29.52	10268	1.157	1.157
76	91 (167)	29.78	192	0.011	0.011
77	92 (185)	30.14	4187	0.321	0.321
78	93 (174,181)	30.52	21115	2.371	2.371
79	94 (177)	30.80	9035	1.147	1.147
80	95 (156,171)	31.10	4182	0.495	0.495
81	96 (157,202)	31.37	2811	0.047	0.047
82	98 (173)	31.53	194	0.015	0.015
83	99 (201)	31.92	2088	0.264	0.264
84	100 (172,204)	32.17	2863	0.371	0.371

85	101 (192,197)	32.46	451	0.058	0.058
86	102 (180)	32.66	44491	4.369	4.369
87	103 (193)	32.91	1641	0.195	0.195
88	104 (191)	33.23	602	0.069	0.069
89	105 (200,169)	33.58	2712	0.311	0.311
90	106 (170)	34.76	12711	0.825	0.825
91	107 (190)	35.03	3185	0.246	0.246
92	108 (198)	35.92	1232	0.098	0.098
93	109 (199)	36.15	19160	3.227	3.227
94	110 (196,203)	36.70	20374	3.146	3.146
95	111 (189)	37.89	314	0.023	0.023
96	112 (195)	39.47	6577	0.386	0.386
97	113 (208)	39.99	1178	0.191	0.191
98	114 (207)	40.98	888	0.071	0.071
99	115 (194)	42.40	16958	1.217	1.217
100	116 (205)	43.33	702	0.082	0.082
101	117 (206)	48.55	6852	0.521	0.521
102	118 (209)	54.75	68	0.007	0.007
103	Sum			125.736	125.736

# Standards Raw Data (GC-24)



Sample Name: CCCS0922C  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 09/23/2009 09:07:10 EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-175-15

Sample Name: CCCS0922C

1 of 1

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 09:07:10  
 Lab Sample ID: CCCS0922C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-175-15

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 116 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.47	17.07
Di	12.37	15.49
Tri	17.67	19.24
Tetra	21.01	20.27
Penta	8.26	7.06
Hexa	7.94	6.22
Hepta	13.39	9.52
Octa	7.23	4.73
Nona	0.65	0.39
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.9573	39.0	31.7
A1242	23+24/31+28	5.7272	28.1	22.8
A1254SED	61/100	1.4188	6.95	
A1254BIO	69+75+82/149+153+138	6.1422		24.4
A1260	102/180	4.0647	19.9	16.2
A1268	115/194	1.2383	6.07	4.93

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 2.11

Total Cl / biphenyl Residue = 3.68

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 09:07:10  
 Lab Sample ID: CCCS0922C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-175-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.51	188.7	1765	7.96	42.2			
3	12.52	188.7		-	-			
4	12.63	188.7	594	5.35	28.3			
5	13.21	223.1	1129	2.16	9.68			
6	14.06	223.1	2642	0.717	3.22			
7	14.36	223.1	2134	1.23	5.52			
8	14.55	223.1	8899	9.40	42.1			
9	15.11	223.1		-	-			
10	15.17	257.5	704	0.252	0.979			
11	15.64	257.5		-	-			
12	15.72	223.1		-	-			
13	15.92	223.1	339	0.144	0.644			
14	16.02	249.0	7662	2.81	11.3			
15	16.10	257.5	4669	2.64	10.3			
16	16.40	257.5	949	0.204	0.793			
17	16.65	257.5	7301	2.88	11.2			
19	17.11	267.9	68	0.0221	0.0824			
20	17.29	257.5	129	0.0304	0.118			
21	17.41	257.5	1797	0.562	2.18			
22	17.50	257.5	1046	0.232	0.901			
23	17.69	257.5	10367	2.75	10.7			
24	17.74	257.5	14258	2.97	11.6			
25	18.09	259.5	9837	2.83	10.9			
26	18.32	258.7	6617	1.98	7.64			
27	18.53	292.0	2545	0.661	2.26			
28	18.69	257.5		-	-			
29	18.81	292.0	971	0.289	0.990			
30	18.96	257.5		-	-			
31	19.10	292.0	10432	3.79	13.0			
32	19.27	292.0	8584	1.57	5.38			
33	19.38	292.0	3792	0.483	1.65			
34	19.44	292.0	3856	0.662	2.27			
35	19.59	292.0		-	-			
36	19.69	257.5	35	0.0151	0.0585			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.83	292.0	12412	2.92	9.99			
38	19.96	272.4	7679	2.16	7.92			
39	20.31	292.0	14161	2.57	8.80			
41	20.46	326.4	168	0.0505	0.155			
42	20.57	292.0	3266	0.689	2.36			
43	20.82	298.9	117	0.0251	0.0840			
44	21.00	298.9	468	0.0764	0.256			
45	21.15	292.0	705	0.116	0.398			
46	21.32	292.0	7589	0.941	3.22			
47	21.45	292.0	14373	2.22	7.59			
48	21.57	293.5	19464	4.44	15.1			
49	21.86	324.7	1773	0.335	1.03			
50	22.17	292.0	12962	1.96	6.72			
51	22.39	326.4	3886	1.49	4.55			
52	22.50	326.4	326	0.0605	0.185			
53	22.66	326.4	7053	1.27	3.88			
54	22.85	326.4	3369	0.390	1.19			
55	23.13	326.4	168	0.0137	0.0421			
56	23.22	326.4	573	0.116	0.354			
57	23.43	326.4	3077	0.421	1.29			
58	23.60	326.4	5358	0.880	2.70			
59	23.76	326.4	2897	0.376	1.15			
60	23.87	360.9	2279	0.517	1.43			
61	24.01	326.4	8748	1.42	4.35			
62	24.29	360.9	-	-	-			
63	24.37	326.4	2595	0.344	1.05			
64	24.67	360.9	7234	1.18	3.28			
65	24.80	350.5	1955	0.195	0.557			
66	24.86	360.9	1661	0.405	1.12			
67	24.94	336.8	463	0.0754	0.224			
68	25.04	326.4	79	0.0124	0.0379			
69	25.11	337.5	17280	2.53	7.48			
70	25.24	360.9	-	-	-			
71	25.49	347.8	789	0.119	0.341			
72	25.70	336.8	101	0.00938	0.0278			
73	25.97	360.9	1888	0.257	0.711			
74	26.09	347.8	7530	0.849	2.44			
75	26.24	360.9	15887	1.90	5.27			
76	26.37	360.9	-	-	-			
77	26.75	360.9	5337	1.05	2.90			
78	26.80	395.3	7147	1.10	2.78			
79	27.03	360.9	105	0.0159	0.0440			
80	27.15	360.9	2187	0.159	0.441			
82	27.37	360.9	13454	1.72	4.75			
83	27.54	360.9	1398	0.157	0.435			
84	27.74	360.9	156	0.00742	0.0205			
85	28.06	395.3	3357	0.794	2.01			
87	28.35	395.3	619	0.134	0.338			
88	28.48	395.3	19074	2.50	6.33			
89	28.61	360.9	764	0.0601	0.167			
90	28.78	395.3	8500	1.14	2.87			
91	29.06	360.9	120	0.0181	0.0502			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.35	394.3	3664	0.332	0.841			
93	29.70	394.3	16310	2.16	5.49			
94	29.96	394.3	7726	1.13	2.87			
95	30.25	382.2	3606	0.492	1.29			
96	30.49	429.8	2558	0.0480	0.112			
98	30.65	395.3	197	0.0205	0.0520			
99	31.01	429.8	1846	0.264	0.613			
100	31.25	395.3	2597	0.386	0.976			
101	31.53	429.8	364	0.0589	0.137			
102	31.71	395.3	35714	4.06	10.3			
103	31.94	395.3	2092	0.268	0.679			
104	32.26	395.3	445	0.0617	0.156			
105	32.56	429.8	2380	0.293	0.682			
106	33.66	395.3	11765	0.845	2.14			
107	33.92	395.3	3260	0.265	0.670			
108	34.75	429.8	782	0.0661	0.154			
109	34.97	429.8	16014	3.00	6.98			
110	35.48	429.8	17509	2.99	6.95			
111	36.61	395.3	187	0.0165	0.0418			
112	38.06	429.8	5877	0.361	0.841			
113	38.55	464.2	1176	0.190	0.410			
114	39.45	464.2	742	0.0631	0.136			
115	40.80	429.8	16156	1.24	2.88			
116	41.64	429.8	740	0.0753	0.175			
117	46.51	464.2	6347	0.501	1.08			
118	52.31	498.6	16	0.00127	0.00254			

Total Concentration = 116 ng/mL

Total Nanomoles = 0.413

Average Molecular Weight = 280.8

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.09 minutes

Internal Standard Peak Area = 182900.2

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 09:07:10  
 Lab Sample ID: CCCS0922C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-175-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2553	2	6.863	10.211
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003	0.2801	4	4.611	6.861
5	13.21	2:2	004 010	0.2930	2-2; 26	1.863	2.344
6	14.06	2:1	007 009	0.3118	24; 25	0.619	0.779
7	14.36	2:1	006	0.3185	2-3	1.061	1.336
8	14.55	2:1	005 008	0.3227	23; 2-4	8.106	10.201
9	15.11	2:0	014		35	-	-
10	15.17	3:3	019	0.3364	26-2	0.217	0.237
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013	0.3531	34; 3-4	0.124	0.156
14	16.02	2:0 3:2	015 018	0.3553	4-4; 25-2	2.426	2.736
15	16.10	3:2	017	0.3571	24-2	2.277	2.483
16	16.40	3:2	024 027	0.3637	236; 26-3	0.176	0.192
17	16.65	3:2	016 032	0.3693	23-2; 26-4	2.484	2.709
19	17.11	3:1 4:4	023 034 054	0.3795	235; 35-2; 26-26	0.019	0.020
20	17.29	3:1	029	0.3835	245	0.026	0.029
21	17.41	3:1	026	0.3861	25-3	0.484	0.528
22	17.50	3:1	025	0.3881	24-3	0.200	0.218
23	17.69	3:1	031	0.3923	25-4	2.374	2.588
24	17.74	3:1 4:3	028 050	0.3934	24-4; 246-2	2.565	2.797
25	18.09	3:1 4:3	020 021 033 053	0.4012	23-3; 234; 34-2; 25-26	2.441	2.641
26	18.32	3:1 4:3	022 051	0.4063	23-4; 24-26	1.704	1.850
27	18.53	4:3	045	0.4110	236-2	0.570	0.548
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4172	23-26	0.249	0.240
30	18.96	3:0	039		35-4	-	-
31	19.10	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	3.269	3.143
32	19.27	4:2	043 049	0.4274	235-2; 24-25	1.356	1.304
33	19.38	4:2	038 047	0.4298	345; 24-24	0.416	0.400
34	19.44	4:2	048 075	0.4311	245-2; 246-4	0.571	0.549
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035	0.4367	34-3	0.013	0.014
37	19.83	5:4 4:2	104 044	0.4398	246-26; 23-25	2.515	2.418
38	19.96	3:0 4:2	037 042 059	0.4427	34-4; 23-24; 236-3	1.861	1.918

DB-1 Peak <sup>1</sup>	Retention						Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>		Percent	Percent
39	20.31	4:2	041 064 071 072	0.4504	234-2; 236-4; 26-34; 25-35		2.216	2.131
41	20.46	5:4	068 096	0.4538	24-35; 236-26		0.044	0.037
42	20.57	4:2	040	0.4562	23-23		0.594	0.571
43	20.82	4:1 5:3	057 103	0.4617	235-3; 246-25		0.022	0.020
44	21.00	4:1 5:3	058 067 100	0.4657	23-35; 245-3; 246-24		0.066	0.062
45	21.15	4:1	063	0.4691	235-4		0.100	0.096
46	21.32	4:1 5:3	074 094 061	0.4728	245-4; 235-26; 2345		0.811	0.780
47	21.45	4:1	070	0.4757	25-34		1.912	1.839
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088	0.4784	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2		3.828	3.662
49	21.86	4:1 5:3	055 091 121	0.4848	234-3; 236-24; 246-35		0.289	0.250
50	22.17	4:1	056 060	0.4917	23-34; 234-4		1.693	1.628
51	22.39	5:3 6:4	084 092 155	0.4966	236-23; 235-25; 246-246		1.282	1.103
52	22.50	5:3	089	0.4990	234-26		0.052	0.045
53	22.66	5:2	090 101	0.5026	235-24; 245-25		1.091	0.939
54	22.85	5:2	079 099 113	0.5068	34-35; 245-24; 236-35		0.336	0.289
55	23.13	5:2 6:4	119 150	0.5130	246-34; 236-246		0.012	0.010
56	23.22	5:2	078 083 112 108	0.5150	345-3; 235-23; 2356-3; 2346-3		0.100	0.086
57	23.43	5:2 6:4	097 152 086	0.5196	245-23; 2356-26; 2345-2		0.363	0.312
58	23.60	5:2	081 087 117 125 115 145	0.5234	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26		0.759	0.653
59	23.76	5:2	116 085 111	0.5269	23456; 234-24; 235-35		0.325	0.279
60	23.87	6:4	120 136	0.5294	245-35; 236-236		0.446	0.347
61	24.01	5:2	077 110 148	0.5325	34-34; 236-34; 235-246		1.224	1.053
62	24.29	6:3	154		245-246		-	-
63	24.37	5:2	082	0.5405	234-23		0.296	0.255
64	24.67	6:3	151	0.5471	2356-25		1.021	0.794
65	24.80	5:1 6:3	124 135	0.5500	345-25; 235-236		0.168	0.135
66	24.86	6:3	144	0.5513	2346-25		0.349	0.272
67	24.94	5:1 6:3	107 109 147	0.5531	234-35; 235-34; 2356-24		0.065	0.054
68	25.04	5:1	123	0.5553	345-24		0.011	0.009
69	25.11	5:1 6:3	106 118 139 149	0.5569	2345-3; 245-34; 2346-24; 236-245		2.178	1.812
70	25.24	6:3	140		234-246		-	-
71	25.49	5:1 6:3	114 134 143	0.5653	2345-4; 2356-23; 2345-26		0.102	0.083
72	25.70	5:1 6:3	122 131 133 142	0.5700	345-23; 2346-23; 235-235; 23456-2		0.008	0.007
73	25.97	6:2	146 165 188	0.5760	235-245; 2356-35; 2356-246		0.221	0.172
74	26.09	5:1 6:3	105 132 161	0.5786	234-34; 234-236; 2346-35		0.732	0.591
75	26.24	6:2	153	0.5819	245-245		1.640	1.276
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246		-	-
77	26.75	6:2	141	0.5933	2345-25		0.904	0.703
78	26.80	7:4	179	0.5944	2356-236		0.949	0.674
79	27.03	6:2	137	0.5995	2345-24		0.014	0.011
80	27.15	6:2 7:4	130 176	0.6021	234-235; 2346-236		0.137	0.107
82	27.37	6:2	138 163 164	0.6070	234-245; 2356-34; 236-345		1.480	1.151
83	27.54	6:2	158 160 186	0.6108	2346-34; 23456-3; 23456-26		0.136	0.105
84	27.74	6:2	126 129	0.6152	345-34; 2345-23		0.006	0.005
85	28.06	7:3	166 178	0.6223	23456-4; 2356-235		0.684	0.486
87	28.35	7:3	175 159	0.6287	2346-235; 2345-35		0.115	0.082
88	28.48	7:3	182 187	0.6316	2345-246; 2356-245		2.158	1.533
89	28.61	6:2	128 162	0.6345	234-234; 235-345		0.052	0.040
90	28.78	7:3	183	0.6383	2346-245		0.979	0.695
91	29.06	6:1	167	0.6445	245-345		0.016	0.012
92	29.35	7:3	185	0.6509	23456-25		0.286	0.204
93	29.70	7:3	174 181	0.6587	2345-236; 23456-24		1.866	1.329
94	29.96	7:3	177	0.6644	2356-234		0.976	0.695
95	30.25	6:1 7:3	156 171	0.6709	2345-34; 2346-234		0.425	0.312
96	30.49	8:4	157 202	0.6762	234-345; 2356-2356		0.041	0.027
98	30.65	7:3	173	0.6798	23456-23		0.018	0.013
99	31.01	8:4	201	0.6877	2346-2356		0.227	0.148
100	31.25	7:2	172 204	0.6931	2345-235; 23456-246		0.333	0.236
101	31.53	8:4	192 197	0.6993	23456-35; 2346-2346		0.051	0.033
102	31.71	7:2	180	0.7033	2345-245		3.505	2.490
103	31.94	7:2	193	0.7084	2356-345		0.231	0.164
104	32.26	7:2	191	0.7155	2346-345		0.053	0.038

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	32.56	8:4	<b>200</b> 169	0.7221	23456-236; 345-345	0.253	0.165
106	33.66	7:2	<b>170</b>	0.7465	2345-234	0.729	0.518
107	33.92	7:2	<b>190</b>	0.7523	23456-34	0.228	0.162
108	34.75	8:3	<b>198</b>	0.7707	23456-235	0.057	0.037
109	34.97	8:3	<b>199</b>	0.7756	2345-2356	2.587	1.690
110	35.48	8:3	<b>196</b> <b>203</b>	0.7869	2345-2346; 23456-245	2.574	1.682
111	36.61	7:1	<b>189</b>	0.8119	2345-345	0.014	0.010
112	38.06	8:3	<b>195</b>	0.8441	23456-234	0.312	0.204
113	38.55	9:4	<b>208</b>	0.8550	23456-2356	0.164	0.099
114	39.45	9:4	<b>207</b>	0.8749	23456-2346	0.054	0.033
115	40.80	8:2	<b>194</b>	0.9049	2345-2345	1.068	0.698
116	41.64	8:2	<b>205</b>	0.9235	23456-345	0.065	0.042
117	46.51	9:3	<b>206</b>	1.031	23456-2345	0.432	0.261
118	52.31	10:4	<b>209</b>	1.160	23456-23456	0.001	0.001

Concentration = 116 ng/mL

Total Nanomoles = 0.413

Average Molecular Weight = 280.8

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

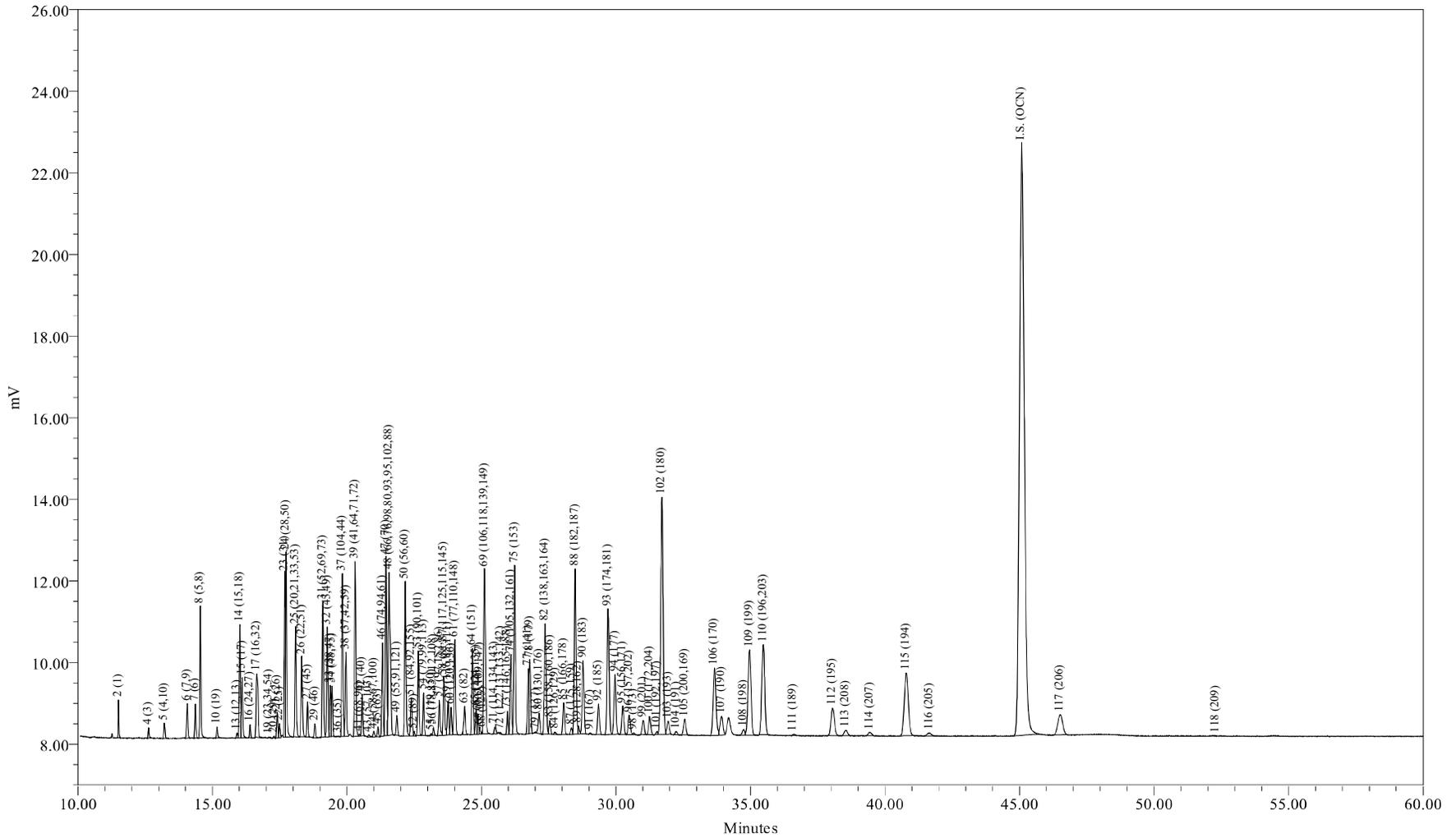
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Sample Name: CCCS0922D  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 09/23/2009 16:45:50 EDT

Sample Amount (L) : 1.0000  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_090509  
 LIMS File ID: GC24-175-22

Sample Name: CCCS0922D

1 of 1

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 16:45:50  
 Lab Sample ID: CCCS0922D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-175-22

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 114 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.97	16.38
Di	12.38	15.55
Tri	17.75	19.39
Tetra	21.11	20.42
Penta	8.32	7.14
Hexa	8.10	6.37
Hepta	13.42	9.57
Octa	7.29	4.78
Nona	0.65	0.39
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.6133	38.1	30.8
A1242	23+24/31+28	5.7003	28.5	23.1
A1254SED	61/100	1.3965	6.99	
A1254BIO	69+75+82/149+153+138	6.1406		24.8
A1260	102/180	4.0307	20.2	16.3
A1268	115/194	1.2321	6.17	4.98

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.12

Total Cl / biphenyl Residue = 3.70

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 16:45:50  
 Lab Sample ID: CCCS0922D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-175-22

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.51	188.7	1696	7.61	40.3			
3	12.52	188.7		-	-			
4	12.63	188.7	550	4.93	26.1			
5	13.21	223.1	1127	2.14	9.61			
6	14.06	223.1	2635	0.712	3.19			
7	14.36	223.1	2053	1.18	5.28			
8	14.55	223.1	8803	9.25	41.5			
9	15.11	223.1		-	-			
10	15.17	257.5	727	0.259	1.01			
11	15.64	257.5		-	-			
12	15.72	223.1		-	-			
13	15.92	223.1	387	0.163	0.733			
14	16.02	249.0	7745	2.83	11.4			
15	16.10	257.5	4728	2.66	10.3			
16	16.40	257.5	866	0.186	0.720			
17	16.65	257.5	7221	2.84	11.0			
19	17.10	267.9	55	0.0180	0.0671			
20	17.29	257.5	131	0.0310	0.120			
21	17.41	257.5	1814	0.564	2.19			
22	17.50	257.5	1081	0.239	0.927			
23	17.69	257.5	10691	2.83	11.0			
24	17.74	257.5	13841	2.87	11.2			
25	18.09	259.5	9678	2.77	10.7			
26	18.32	258.7	6416	1.91	7.37			
27	18.53	292.0	2485	0.642	2.20			
28	18.69	257.5		-	-			
29	18.81	292.0	1014	0.301	1.03			
30	18.96	257.5		-	-			
31	19.10	292.0	10336	3.74	12.8			
32	19.27	292.0	8528	1.55	5.32			
33	19.38	292.0	3728	0.472	1.62			
34	19.44	292.0	3819	0.653	2.24			
35	19.59	292.0		-	-			
36	19.69	257.5	24	0.0104	0.0403			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.83	292.0	12431	2.91	9.96			
38	19.96	272.4	7500	2.10	7.70			
39	20.30	292.0	14143	2.55	8.75			
41	20.46	326.4	139	0.0416	0.128			
42	20.56	292.0	3218	0.676	2.31			
43	20.81	298.9	146	0.0312	0.104			
44	21.00	298.9	507	0.0825	0.276			
45	21.15	292.0	753	0.123	0.423			
46	21.32	292.0	7626	0.941	3.22			
47	21.45	292.0	14351	2.20	7.55			
48	21.57	293.5	19190	4.36	14.8			
49	21.85	324.7	1651	0.311	0.958			
50	22.17	292.0	13072	1.97	6.75			
51	22.39	326.4	3950	1.50	4.61			
52	22.49	326.4	330	0.0611	0.187			
53	22.65	326.4	7041	1.26	3.85			
54	22.85	326.4	3402	0.392	1.20			
55	23.13	326.4	104	0.00873	0.0267			
56	23.22	326.4	534	0.108	0.329			
57	23.43	326.4	3069	0.418	1.28			
58	23.60	326.4	5263	0.860	2.64			
59	23.76	326.4	2894	0.375	1.15			
60	23.87	360.9	2220	0.501	1.39			
61	24.01	326.4	8650	1.40	4.28			
62	24.29	360.9	-	-	-			
63	24.37	326.4	2618	0.345	1.06			
64	24.67	360.9	7316	1.19	3.30			
65	24.80	350.5	1982	0.197	0.562			
66	24.86	360.9	1701	0.413	1.14			
67	24.94	336.8	506	0.0819	0.243			
68	25.04	326.4	107	0.0168	0.0514			
69	25.11	337.5	17368	2.53	7.49			
70	25.24	360.9	-	-	-			
71	25.49	347.8	800	0.120	0.344			
72	25.71	336.8	124	0.0116	0.0344			
73	25.97	360.9	1914	0.259	0.718			
74	26.09	347.8	7633	0.856	2.46			
75	26.24	360.9	15985	1.90	5.28			
76	26.37	360.9	-	-	-			
77	26.74	360.9	5662	1.11	3.07			
78	26.80	395.3	6628	1.01	2.57			
79	27.01	360.9	63	0.00856	0.0237			
80	27.14	360.9	2139	0.155	0.430			
82	27.37	360.9	13463	1.71	4.74			
83	27.54	360.9	1346	0.151	0.417			
84	27.74	360.9	202	0.00960	0.0266			
85	28.06	395.3	3359	0.791	2.00			
87	28.35	395.3	646	0.139	0.351			
88	28.48	395.3	18993	2.48	6.27			
89	28.60	360.9	762	0.0597	0.165			
90	28.78	395.3	8427	1.12	2.83			
91	29.05	360.9	118	0.0177	0.0491			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.35	394.3	3571	0.322	0.816			
93	29.71	394.3	16316	2.15	5.46			
94	29.96	394.3	7665	1.12	2.83			
95	30.25	382.2	3642	0.495	1.30			
96	30.49	429.8	2604	0.0486	0.113			
98	30.66	395.3	221	0.0229	0.0579			
99	31.01	429.8	1836	0.261	0.607			
100	31.25	395.3	2472	0.366	0.925			
101	31.53	429.8	316	0.0508	0.118			
102	31.71	395.3	35582	4.03	10.2			
103	31.93	395.3	1924	0.246	0.621			
104	32.24	395.3	473	0.0652	0.165			
105	32.56	429.8	2396	0.294	0.683			
106	33.67	395.3	12035	0.861	2.18			
107	33.93	395.3	3493	0.283	0.715			
108	34.75	429.8	893	0.0755	0.176			
109	34.97	429.8	16036	2.99	6.96			
110	35.47	429.8	17345	2.94	6.85			
111	36.60	395.3	229	0.0201	0.0509			
112	38.05	429.8	5890	0.361	0.839			
113	38.54	464.2	1159	0.187	0.403			
114	39.44	464.2	715	0.0605	0.130			
115	40.79	429.8	16148	1.23	2.87			
116	41.66	429.8	771	0.0781	0.182			
117	46.51	464.2	6295	0.495	1.07			
118	52.29	498.6	17	0.00135	0.00271			

Total Concentration = 114 ng/mL

Total Nanomoles = 0.406

Average Molecular Weight = 281.7

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.08 minutes

Internal Standard Peak Area = 183715.6

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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/23/2009 16:45:50  
 Lab Sample ID: CCCS0922D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-175-22

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2553	2	6.661	9.942
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003	0.2802	4	4.313	6.438
5	13.21	2:2	004 010	0.2930	2-2; 26	1.877	2.369
6	14.06	2:1	007 009	0.3119	24; 25	0.623	0.787
7	14.36	2:1	006	0.3185	2-3	1.031	1.302
8	14.55	2:1	005 008	0.3228	23; 2-4	8.097	10.221
9	15.11	2:0	014		35	-	-
10	15.17	3:3	019	0.3365	26-2	0.227	0.248
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013	0.3531	34; 3-4	0.143	0.181
14	16.02	2:0 3:2	015 018	0.3554	4-4; 25-2	2.477	2.802
15	16.10	3:2	017	0.3571	24-2	2.329	2.548
16	16.40	3:2	024 027	0.3638	236; 26-3	0.162	0.178
17	16.65	3:2	016 032	0.3693	23-2; 26-4	2.481	2.714
19	17.10	3:1 4:4	023 034 054	0.3793	235; 35-2; 26-26	0.016	0.017
20	17.29	3:1	029	0.3835	245	0.027	0.030
21	17.41	3:1	026	0.3862	25-3	0.494	0.540
22	17.50	3:1	025	0.3882	24-3	0.209	0.228
23	17.69	3:1	031	0.3924	25-4	2.474	2.706
24	17.74	3:1 4:3	028 050	0.3935	24-4; 246-2	2.513	2.749
25	18.09	3:1 4:3	020 021 033 053	0.4013	23-3; 234; 34-2; 25-26	2.425	2.632
26	18.32	3:1 4:3	022 051	0.4064	23-4; 24-26	1.669	1.817
27	18.53	4:3	045	0.4110	236-2	0.562	0.542
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4173	23-26	0.263	0.254
30	18.96	3:0	039		35-4	-	-
31	19.10	4:2	052 069 073	0.4237	25-25; 246-3; 26-35	3.271	3.155
32	19.27	4:2	043 049	0.4275	235-2; 24-25	1.360	1.312
33	19.38	4:2	038 047	0.4299	345; 24-24	0.413	0.398
34	19.44	4:2	048 075	0.4312	245-2; 246-4	0.571	0.551
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035	0.4368	34-3	0.009	0.010
37	19.83	5:4 4:2	104 044	0.4399	246-26; 23-25	2.543	2.453
38	19.96	3:0 4:2	037 042 059	0.4428	34-4; 23-24; 236-3	1.835	1.898

DB-1 Peak <sup>1</sup>	Retention						Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>		Percent	Percent
39	20.30	4:2	041 064 071 072	0.4503	234-2; 236-4; 26-34; 25-35		2.235	2.156
41	20.46	5:4	068 096	0.4539	24-35; 236-26		0.036	0.031
42	20.56	4:2	040	0.4561	23-23		0.591	0.570
43	20.81	4:1 5:3	057 103	0.4616	235-3; 246-25		0.027	0.026
44	21.00	4:1 5:3	058 067 100	0.4658	23-35; 245-3; 246-24		0.072	0.068
45	21.15	4:1	063	0.4692	235-4		0.108	0.104
46	21.32	4:1 5:3	074 094 061	0.4729	245-4; 235-26; 2345		0.823	0.794
47	21.45	4:1	070	0.4758	25-34		1.928	1.860
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088	0.4785	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2		3.811	3.657
49	21.85	4:1 5:3	055 091 121	0.4847	234-3; 236-24; 246-35		0.272	0.236
50	22.17	4:1	056 060	0.4918	23-34; 234-4		1.725	1.664
51	22.39	5:3 6:4	084 092 155	0.4967	236-23; 235-25; 246-246		1.316	1.136
52	22.49	5:3	089	0.4989	234-26		0.053	0.046
53	22.65	5:2	090 101	0.5024	235-24; 245-25		1.100	0.949
54	22.85	5:2	079 099 113	0.5069	34-35; 245-24; 236-35		0.343	0.296
55	23.13	5:2 6:4	119 150	0.5131	246-34; 236-246		0.008	0.007
56	23.22	5:2	078 083 112 108	0.5151	345-3; 235-23; 2356-3; 2346-3		0.094	0.081
57	23.43	5:2 6:4	097 152 086	0.5197	245-23; 2356-26; 2345-2		0.366	0.315
58	23.60	5:2	081 087 117 125 115 145	0.5235	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26		0.753	0.650
59	23.76	5:2	116 085 111	0.5271	23456; 234-24; 235-35		0.328	0.283
60	23.87	6:4	120 136	0.5295	245-35; 236-236		0.439	0.342
61	24.01	5:2	077 110 148	0.5326	34-34; 236-34; 235-246		1.222	1.054
62	24.29	6:3	154		245-246		-	-
63	24.37	5:2	082	0.5406	234-23		0.302	0.260
64	24.67	6:3	151	0.5472	2356-25		1.043	0.814
65	24.80	5:1 6:3	124 135	0.5501	345-25; 235-236		0.172	0.138
66	24.86	6:3	144	0.5515	2346-25		0.361	0.282
67	24.94	5:1 6:3	107 109 147	0.5532	234-35; 235-34; 2356-24		0.072	0.060
68	25.04	5:1	123	0.5555	345-24		0.015	0.013
69	25.11	5:1 6:3	106 118 139 149	0.5570	2345-3; 245-34; 2346-24; 236-245		2.211	1.845
70	25.24	6:3	140		234-246		-	-
71	25.49	5:1 6:3	114 134 143	0.5654	2345-4; 2356-23; 2345-26		0.105	0.085
72	25.71	5:1 6:3	122 131 133 142	0.5703	345-23; 2346-23; 235-235; 23456-2		0.010	0.008
73	25.97	6:2	146 165 188	0.5761	235-245; 2356-35; 2356-246		0.227	0.177
74	26.09	5:1 6:3	105 132 161	0.5787	234-34; 234-236; 2346-35		0.749	0.607
75	26.24	6:2	153	0.5821	245-245		1.666	1.300
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246		-	-
77	26.74	6:2	141	0.5932	2345-25		0.969	0.756
78	26.80	7:4	179	0.5945	2356-236		0.887	0.632
79	27.01	6:2	137	0.5992	2345-24		0.007	0.006
80	27.14	6:2 7:4	130 176	0.6020	234-235; 2346-236		0.136	0.106
82	27.37	6:2	138 163 164	0.6071	234-245; 2356-34; 236-345		1.495	1.167
83	27.54	6:2	158 160 186	0.6109	2346-34; 23456-3; 23456-26		0.132	0.103
84	27.74	6:2	126 129	0.6154	345-34; 2345-23		0.008	0.007
85	28.06	7:3	166 178	0.6224	23456-4; 2356-235		0.692	0.493
87	28.35	7:3	175 159	0.6289	2346-235; 2345-35		0.121	0.087
88	28.48	7:3	182 187	0.6318	2345-246; 2356-245		2.170	1.546
89	28.60	6:2	128 162	0.6344	234-234; 235-345		0.052	0.041
90	28.78	7:3	183	0.6384	2346-245		0.980	0.698
91	29.05	6:1	167	0.6444	245-345		0.016	0.012
92	29.35	7:3	185	0.6511	23456-25		0.282	0.201
93	29.71	7:3	174 181	0.6591	2345-236; 23456-24		1.885	1.346
94	29.96	7:3	177	0.6646	2356-234		0.977	0.698
95	30.25	6:1 7:3	156 171	0.6710	2345-34; 2346-234		0.433	0.319
96	30.49	8:4	157 202	0.6764	234-345; 2356-2356		0.043	0.028
98	30.66	7:3	173	0.6801	23456-23		0.020	0.014
99	31.01	8:4	201	0.6879	2346-2356		0.228	0.150
100	31.25	7:2	172 204	0.6932	2345-235; 23456-246		0.320	0.228
101	31.53	8:4	192 197	0.6994	23456-35; 2346-2346		0.044	0.029
102	31.71	7:2	180	0.7034	2345-245		3.526	2.513
103	31.93	7:2	193	0.7083	2356-345		0.215	0.153
104	32.24	7:2	191	0.7152	2346-345		0.057	0.041

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	32.56	8:4	<b>200</b> 169	0.7223	23456-236; 345-345	0.257	0.168
106	33.67	7:2	<b>170</b>	0.7469	2345-234	0.753	0.537
107	33.93	7:2	<b>190</b>	0.7527	23456-34	0.247	0.176
108	34.75	8:3	<b>198</b>	0.7709	23456-235	0.066	0.043
109	34.97	8:3	<b>199</b>	0.7757	2345-2356	2.616	1.714
110	35.47	8:3	<b>196</b> <b>203</b>	0.7868	2345-2346; 23456-245	2.575	1.688
111	36.60	7:1	<b>189</b>	0.8119	2345-345	0.018	0.013
112	38.05	8:3	<b>195</b>	0.8441	23456-234	0.315	0.207
113	38.54	9:4	<b>208</b>	0.8549	23456-2356	0.163	0.099
114	39.44	9:4	<b>207</b>	0.8749	23456-2346	0.053	0.032
115	40.79	8:2	<b>194</b>	0.9048	2345-2345	1.078	0.706
116	41.66	8:2	<b>205</b>	0.9241	23456-345	0.068	0.045
117	46.51	9:3	<b>206</b>	1.032	23456-2345	0.433	0.263
118	52.29	10:4	<b>209</b>	1.160	23456-23456	0.001	0.001

Concentration = 114 ng/mL

Total Nanomoles = 0.406

Average Molecular Weight = 281.7

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



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Sample Name: CCCS0922C Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/23/2009 09:07:10 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 09/24/2009 00:29:10  
Sample Set Name: GC24\_092209c User Name: Kari Lantiegne  
Processing Method: CSGB\_LL1X\_090509 Current Time: 21:06:22  
Run Time: 60 Minutes Current Date: 09/24/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-175-15

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.51	1765	7.957	7.957
2	4 (3)	12.63	594	5.347	5.347
3	5 (4,10)	13.21	1129	2.160	2.160
4	6 (7,9)	14.06	2642	0.717	0.717
5	7 (6)	14.36	2134	1.231	1.231
6	8 (5,8)	14.55	8899	9.399	9.399
7	10 (19)	15.17	704	0.252	0.252
8	13 (12,13)	15.92	339	0.144	0.144
9	14 (15,18)	16.02	7662	2.813	2.813
10	15 (17)	16.10	4669	2.640	2.640
11	16 (24,27)	16.40	949	0.204	0.204
12	17 (16,32)	16.65	7301	2.880	2.880
13	19 (23,34,54)	17.11	68	0.022	0.022
14	20 (29)	17.29	129	0.030	0.030
15	21 (26)	17.41	1797	0.562	0.562
16	22 (25)	17.50	1046	0.232	0.232
17	23 (31)	17.69	10367	2.753	2.753
18	24 (28,50)	17.74	14258	2.975	2.975
19	25 (20,21,33,53)	18.09	9837	2.830	2.830
20	26 (22,51)	18.32	6617	1.976	1.976
21	27 (45)	18.53	2545	0.661	0.661
22	29 (46)	18.81	971	0.289	0.289
23	31 (52,69,73)	19.10	10432	3.790	3.790
24	32 (43,49)	19.27	8584	1.572	1.572
25	33 (38,47)	19.38	3792	0.483	0.483
26	34 (48,75)	19.44	3856	0.662	0.662
27	36 (35)	19.69	35	0.015	0.015
28	37 (104,44)	19.83	12412	2.916	2.916
29	38 (37,42,59)	19.96	7679	2.158	2.158
30	39 (41,64,71,72)	20.31	14161	2.569	2.569
31	41 (68,96)	20.46	168	0.051	0.051
32	42 (40)	20.57	3266	0.689	0.689
33	43 (57,103)	20.82	117	0.025	0.025

CCCS0922C

1 of 3

Print Date: 09/24/2009  
Nea Lims Version : 5.0.0.0

34	44 (58,67,100)	21.00	468	0.076	0.076
35	45 (63)	21.15	705	0.116	0.116
36	46 (74,94,61)	21.32	7589	0.941	0.941
37	47 (70)	21.45	14373	2.217	2.217
38	48 (66,76,98,80,93,95,	21.57	19464	4.439	4.439
39	49 (55,91,121)	21.86	1773	0.335	0.335
40	50 (56,60)	22.17	12962	1.963	1.963
41	51 (84,92,155)	22.39	3886	1.487	1.487
42	52 (89)	22.50	326	0.061	0.061
43	53 (90,101)	22.66	7053	1.266	1.266
44	54 (79,99,113)	22.85	3369	0.390	0.390
45	55 (119,150)	23.13	168	0.014	0.014
46	56 (78,83,112,108)	23.22	573	0.116	0.116
47	57 (97,152,86)	23.43	3077	0.421	0.421
48	58 (81,87,117,125,115)	23.60	5358	0.880	0.880
49	59 (116,85,111)	23.76	2897	0.376	0.376
50	60 (120,136)	23.87	2279	0.517	0.517
51	61 (77,110,148)	24.01	8748	1.419	1.419
52	63 (82)	24.37	2595	0.344	0.344
53	64 (151)	24.67	7234	1.184	1.184
54	65 (124,135)	24.80	1955	0.195	0.195
55	66 (144)	24.86	1661	0.405	0.405
56	67 (107,109,147)	24.94	463	0.075	0.075
57	68 (123)	25.04	79	0.012	0.012
58	69 (106,118,139,149)	25.11	17280	2.525	2.525
59	71 (114,134,143)	25.49	789	0.119	0.119
60	72 (122,131,133,142)	25.70	101	0.009	0.009
61	73 (146,165,188)	25.97	1888	0.257	0.257
62	74 (105,132,161)	26.09	7530	0.849	0.849
63	75 (153)	26.24	15887	1.901	1.901
64	77 (141)	26.75	5337	1.048	1.048
65	78 (179)	26.80	7147	1.101	1.101
66	79 (137)	27.03	105	0.016	0.016
67	80 (130,176)	27.15	2187	0.159	0.159
68	82 (138,163,164)	27.37	13454	1.716	1.716
69	83 (158,160,186)	27.54	1398	0.157	0.157
70	84 (126,129)	27.74	156	0.007	0.007
71	85 (166,178)	28.06	3357	0.794	0.794
72	87 (175,159)	28.35	619	0.134	0.134
73	88 (182,187)	28.48	19074	2.502	2.502
74	89 (128,162)	28.61	764	0.060	0.060
75	90 (183)	28.78	8500	1.135	1.135
76	91 (167)	29.06	120	0.018	0.018
77	92 (185)	29.35	3664	0.332	0.332
78	93 (174,181)	29.70	16310	2.163	2.163
79	94 (177)	29.96	7726	1.131	1.131
80	95 (156,171)	30.25	3606	0.492	0.492
81	96 (157,202)	30.49	2558	0.048	0.048
82	98 (173)	30.65	197	0.021	0.021
83	99 (201)	31.01	1846	0.264	0.264
84	100 (172,204)	31.25	2597	0.386	0.386

85	101 (192,197)	31.53	364	0.059	0.059
86	102 (180)	31.71	35714	4.065	4.065
87	103 (193)	31.94	2092	0.268	0.268
88	104 (191)	32.26	445	0.062	0.062
89	105 (200,169)	32.56	2380	0.293	0.293
90	106 (170)	33.66	11765	0.845	0.845
91	107 (190)	33.92	3260	0.265	0.265
92	108 (198)	34.75	782	0.066	0.066
93	109 (199)	34.97	16014	2.999	2.999
94	110 (196,203)	35.48	17509	2.985	2.985
95	111 (189)	36.61	187	0.017	0.017
96	112 (195)	38.06	5877	0.361	0.361
97	113 (208)	38.55	1176	0.190	0.190
98	114 (207)	39.45	742	0.063	0.063
99	115 (194)	40.80	16156	1.238	1.238
100	116 (205)	41.64	740	0.075	0.075
101	117 (206)	46.51	6347	0.501	0.501
102	118 (209)	52.31	16	0.001	0.001
103	Sum			115.952	115.952



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, New York 12308

Phone:(518) 346-4592 Fax:(518) 381-6055

www.nealab.com

Sample Name:	CCCS0922D	Sample Amount:	1
Sample ID:	CCC Std 122 ng/mL	Dilution:	1
Date Acquired:	09/23/2009 16:45:50	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	09/24/2009 02:48:36
Sample Set Name:	GC24_092209c	User Name:	Kari Lantiegne
Processing Method:	CSGB_LL1X_090509	Current Time:	21:06:23
Run Time:	60 Minutes	Current Date:	09/24/2009
Report Name:	CSGB_ChkStd_ng_mL	LIMS File ID:	GC24-175-22

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.51	1696	7.613	7.613
2	4 (3)	12.63	550	4.930	4.930
3	5 (4,10)	13.21	1127	2.145	2.145
4	6 (7,9)	14.06	2635	0.712	0.712
5	7 (6)	14.36	2053	1.179	1.179
6	8 (5,8)	14.55	8803	9.254	9.254
7	10 (19)	15.17	727	0.259	0.259
8	13 (12,13)	15.92	387	0.163	0.163
9	14 (15,18)	16.02	7745	2.831	2.831
10	15 (17)	16.10	4728	2.662	2.662
11	16 (24,27)	16.40	866	0.186	0.186
12	17 (16,32)	16.65	7221	2.836	2.836
13	19 (23,34,54)	17.10	55	0.018	0.018
14	20 (29)	17.29	131	0.031	0.031
15	21 (26)	17.41	1814	0.564	0.564
16	22 (25)	17.50	1081	0.239	0.239
17	23 (31)	17.69	10691	2.828	2.828
18	24 (28,50)	17.74	13841	2.873	2.873
19	25 (20,21,33,53)	18.09	9678	2.772	2.772
20	26 (22,51)	18.32	6416	1.907	1.907
21	27 (45)	18.53	2485	0.642	0.642
22	29 (46)	18.81	1014	0.301	0.301
23	31 (52,69,73)	19.10	10336	3.739	3.739
24	32 (43,49)	19.27	8528	1.555	1.555
25	33 (38,47)	19.38	3728	0.472	0.472
26	34 (48,75)	19.44	3819	0.653	0.653
27	36 (35)	19.69	24	0.010	0.010
28	37 (104,44)	19.83	12431	2.907	2.907
29	38 (37,42,59)	19.96	7500	2.098	2.098
30	39 (41,64,71,72)	20.30	14143	2.554	2.554
31	41 (68,96)	20.46	139	0.042	0.042
32	42 (40)	20.56	3218	0.676	0.676
33	43 (57,103)	20.81	146	0.031	0.031

CCCS0922D

1 of 3

Print Date: 09/24/2009  
Nea Lims Version : 5.0.0.0

34	44 (58,67,100)	21.00	507	0.082	0.082
35	45 (63)	21.15	753	0.123	0.123
36	46 (74,94,61)	21.32	7626	0.941	0.941
37	47 (70)	21.45	14351	2.204	2.204
38	48 (66,76,98,80,93,95,	21.57	19190	4.355	4.355
39	49 (55,91,121)	21.85	1651	0.311	0.311
40	50 (56,60)	22.17	13072	1.971	1.971
41	51 (84,92,155)	22.39	3950	1.505	1.505
42	52 (89)	22.49	330	0.061	0.061
43	53 (90,101)	22.65	7041	1.258	1.258
44	54 (79,99,113)	22.85	3402	0.392	0.392
45	55 (119,150)	23.13	104	0.009	0.009
46	56 (78,83,112,108)	23.22	534	0.108	0.108
47	57 (97,152,86)	23.43	3069	0.418	0.418
48	58 (81,87,117,125,115)	23.60	5263	0.860	0.860
49	59 (116,85,111)	23.76	2894	0.375	0.375
50	60 (120,136)	23.87	2220	0.501	0.501
51	61 (77,110,148)	24.01	8650	1.397	1.397
52	63 (82)	24.37	2618	0.345	0.345
53	64 (151)	24.67	7316	1.192	1.192
54	65 (124,135)	24.80	1982	0.197	0.197
55	66 (144)	24.86	1701	0.413	0.413
56	67 (107,109,147)	24.94	506	0.082	0.082
57	68 (123)	25.04	107	0.017	0.017
58	69 (106,118,139,149)	25.11	17368	2.527	2.527
59	71 (114,134,143)	25.49	800	0.120	0.120
60	72 (122,131,133,142)	25.71	124	0.012	0.012
61	73 (146,165,188)	25.97	1914	0.259	0.259
62	74 (105,132,161)	26.09	7633	0.856	0.856
63	75 (153)	26.24	15985	1.904	1.904
64	77 (141)	26.74	5662	1.108	1.108
65	78 (179)	26.80	6628	1.014	1.014
66	79 (137)	27.01	63	0.009	0.009
67	80 (130,176)	27.14	2139	0.155	0.155
68	82 (138,163,164)	27.37	13463	1.709	1.709
69	83 (158,160,186)	27.54	1346	0.151	0.151
70	84 (126,129)	27.74	202	0.010	0.010
71	85 (166,178)	28.06	3359	0.791	0.791
72	87 (175,159)	28.35	646	0.139	0.139
73	88 (182,187)	28.48	18993	2.480	2.480
74	89 (128,162)	28.60	762	0.060	0.060
75	90 (183)	28.78	8427	1.120	1.120
76	91 (167)	29.05	118	0.018	0.018
77	92 (185)	29.35	3571	0.322	0.322
78	93 (174,181)	29.71	16316	2.154	2.154
79	94 (177)	29.96	7665	1.117	1.117
80	95 (156,171)	30.25	3642	0.495	0.495
81	96 (157,202)	30.49	2604	0.049	0.049
82	98 (173)	30.66	221	0.023	0.023
83	99 (201)	31.01	1836	0.261	0.261
84	100 (172,204)	31.25	2472	0.366	0.366

85	101 (192,197)	31.53	316	0.051	0.051
86	102 (180)	31.71	35582	4.031	4.031
87	103 (193)	31.93	1924	0.246	0.246
88	104 (191)	32.24	473	0.065	0.065
89	105 (200,169)	32.56	2396	0.294	0.294
90	106 (170)	33.67	12035	0.861	0.861
91	107 (190)	33.93	3493	0.283	0.283
92	108 (198)	34.75	893	0.075	0.075
93	109 (199)	34.97	16036	2.990	2.990
94	110 (196,203)	35.47	17345	2.943	2.943
95	111 (189)	36.60	229	0.020	0.020
96	112 (195)	38.05	5890	0.361	0.361
97	113 (208)	38.54	1159	0.187	0.187
98	114 (207)	39.44	715	0.060	0.060
99	115 (194)	40.79	16148	1.232	1.232
100	116 (205)	41.66	771	0.078	0.078
101	117 (206)	46.51	6295	0.495	0.495
102	118 (209)	52.29	17	0.001	0.001
103	Sum			114.298	114.298

# QC Sample Raw Data

PCB SAMPLE ANALYSIS DATA SHEET

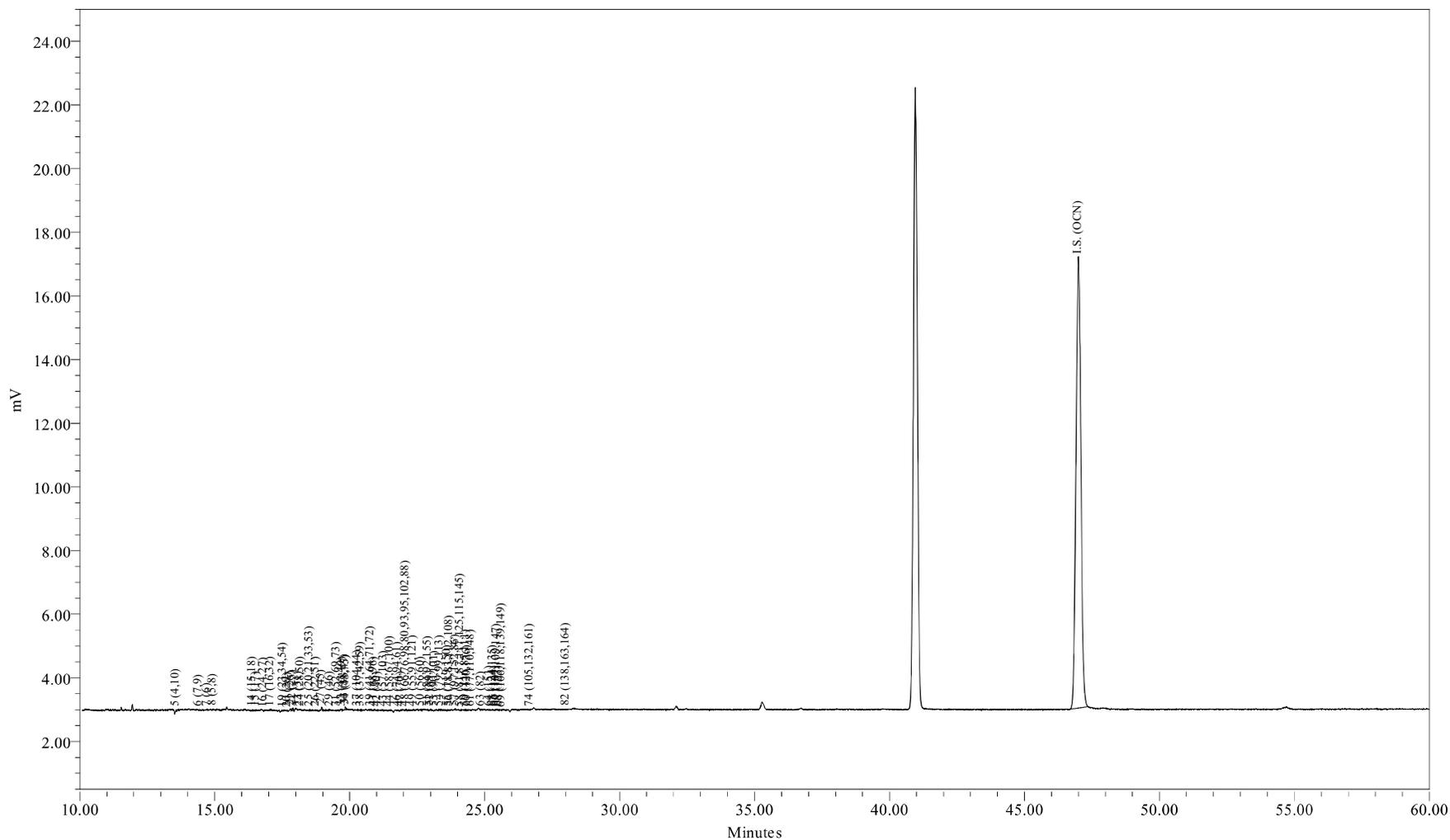
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09090269
ELAP ID No:	11078	LRF ID:	CEBLK-72
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-72(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM17150B
% Moisture:	100	Lab File ID:	GC16-798-4
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	09/22/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	09/22/2009 11:45
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 180892

Percent Recovery (50 - 150 %): 108

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

Visual Aroclor ID: No Aroclor Pattern Detected



Sample Name: AM17150B  
Sample ID: METHOD BLANK  
Date Acquired: 09/22/2009 11:45:42 EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-798-4

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/22/2009 11:45:42  
 Lab Sample ID: AM17150B  
 LRF ID: CEBLK-72  
 Lab File ID: GC16-798-4

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <9.10 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	28.74	34.61
Tri	22.43	23.40
Tetra	18.58	17.02
Penta	30.26	24.97
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001		0	
A1242	23+24/31+28		0	
A1254SED	61/100	0.0543	100	
A1254BIO	69+75+82/149+153+138			
A1260	102/180		0	
A1268	115/194		0	

Ortho Cl / biphenyl Residue = 2.06

Meta + Para Cl / biphenyl Residue = 1.27

Total Cl / biphenyl Residue = 3.32

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/22/2009 11:45:42  
 Lab Sample ID: AM17150B  
 LRF ID: CEBLK-72  
 Lab File ID: GC16-798-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7				0.529	2.19	U
3	12.83	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.57	223.1	65	0.326	1.46	0.134	0.621	J
6	14.41	223.1	11			0.0721	0.219	U
7	14.73	223.1	81			0.158	0.347	U
8	14.93	223.1	14			0.542	2.56	U
9	15.48	223.1				0.294	25.0	U
10	15.56	257.5				0.0604	0.102	U
11	16.03	257.5				0.198	25.0	U
12	16.09	223.1				0.306	25.0	U
13	16.29	223.1				0.0559	0.0975	U
14	16.40	249.0	58			0.128	0.676	U
15	16.53	257.5	34			0.143	0.676	U
16	16.81	257.5	16			0.0374	0.0475	U
17	17.07	257.5	48			0.166	0.713	U
19	17.54	267.9	19			0.128	25.0	U
20	17.70	257.5	25	0.0194	0.0753	0.0108	0.0194	J
21	17.82	257.5	100	0.136	0.529	0.0606	0.132	
22	17.90	257.5	135	0.0987	0.383	0.0426	0.0585	
23	18.12	257.5	45			0.487	0.753	U
24	18.19	257.5	41			0.211	0.964	U
25	18.52	259.5	72			0.105	0.726	U
26	18.75	258.7	73			0.120	0.530	U
27	18.97	292.0	174	0.179	0.612	0.0367	0.163	
28	19.12	257.5				0.375	25.0	U
29	19.27	292.0	39			0.127	0.127	U
30	19.39	257.5				0.120	25.0	U
31	19.53	292.0	61			0.204	0.872	U
32	19.72	292.0	39			0.0978	0.420	U
33	19.83	292.0	192			0.0656	0.183	U
34	19.86	292.0	107			0.0579	0.183	U
35	20.04	292.0				0.205	25.0	U
36	20.13	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.30	292.0	51			0.160	0.786	U
38	20.42	272.4	64			0.115	0.475	U
39	20.78	292.0	83			0.121	0.749	U
41	20.91	326.4	82			0.115	25.0	U
42	21.04	292.0	45			0.0968	0.172	U
43	21.26	298.9	33			0.152	25.0	U
44	21.50	298.9	48	0.0365	0.122	0.0225	0.0402	J
45	21.62	292.0				0.0299	0.0384	U
46	21.78	292.0	58			0.0821	0.347	U
47	21.91	292.0	64			0.164	0.621	U
48	22.08	293.5	110			0.243	1.32	U
49	22.35	324.7	55	0.0550	0.169	0.0376	0.0932	J
50	22.65	292.0	92			0.359	0.640	U
51	22.91	326.4	63	0.119	0.366	0.0888	0.329	J
52	22.99	326.4	83	0.0578	0.177	0.0384	0.0384	
53	23.15	326.4	22			0.0691	0.329	U
54	23.36	326.4	96			0.101	0.135	U
55	23.63	326.4	27	0.00680	0.0208	0.00644	0.0102	J
56	23.71	326.4	21			0.0647	0.0647	U
57	23.92	326.4	92	0.0639	0.196	0.0435	0.102	J
58	24.10	326.4	40			0.0841	0.212	U
59	24.30	326.4	42			0.0484	0.128	U
60	24.36	360.9	37			0.0772	0.137	U
61	24.51	326.4	23			0.0668	0.389	U
62	24.79	360.9				0.113	25.0	U
63	24.87	326.4	103	0.0358	0.110	0.0201	0.0804	J
64	25.18	360.9	25			0.0518	0.311	U
65	25.31	350.5	11			0.0149	0.0530	U
66	25.38	360.9	10			0.0541	0.110	U
67	25.45	336.8	28			0.0348	0.0475	U
68	25.54	326.4	25			0.125	25.0	U
69	25.63	337.5	23			0.0938	0.731	U
70	25.74	360.9				0.0829	25.0	U
71	26.04	347.8				0.0348	0.0369	U
72	26.23	336.8				0.00638	0.0106	U
73	26.52	360.9				0.0320	0.0713	U
74	26.67	347.8	28			0.0721	0.248	U
75	26.82	360.9				0.109	0.538	U
76	26.93	360.9				0.107	25.0	U
77	27.35	360.9				0.0637	0.311	U
78	27.42	395.3				0.0470	0.267	U
79	27.65	360.9				0.0501	0.0501	U
80	27.80	360.9				0.0151	0.0475	U
82	28.02	360.9	29			0.108	0.493	U
83	28.21	360.9				0.0450	0.0457	U
84	28.42	360.9				0.00310	0.00473	U
85	28.77	395.3				0.0677	0.201	U
87	29.08	395.3				0.0156	0.0731	U
88	29.22	395.3				0.102	0.658	U
89	29.35	360.9				0.0199	0.0366	U
90	29.53	395.3				0.0679	0.311	U
91	29.83	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.0225	0.0859	U
93	30.53	394.3				0.102	0.585	U
94	30.81	394.3				0.0936	0.311	U
95	31.11	382.2				0.0871	0.144	U
96	31.38	429.8				0.00942	0.0121	U
98	31.55	395.3				0.0133	0.0139	U
99	31.92	429.8				0.0863	0.0863	U
100	32.18	395.3				0.127	0.127	U
101	32.48	429.8				0.217	0.217	U
102	32.67	395.3				0.150	1.11	U
103	32.92	395.3				0.0640	0.0768	U
104	33.23	395.3				0.0374	0.0438	U
105	33.58	429.8				0.0460	0.0786	U
106	34.76	395.3				0.0538	0.234	U
107	35.04	395.3				0.0213	0.0768	U
108	35.92	429.8				0.0324	0.0438	U
109	36.16	429.8				0.116	0.768	U
110	36.71	429.8				0.184	0.786	U
111	37.90	395.3				0.0231	0.0231	U
112	39.49	429.8				0.0368	0.101	U
113	40.01	464.2				0.0438	0.0903	U
114	40.97	464.2				0.0154	0.0340	U
115	42.42	429.8				0.0969	0.329	U
116	43.32	429.8				0.0838	0.0838	U
117	48.57	464.2				0.0384	0.124	U
118	54.73	498.6				0.0126	0.0126	U

Total Concentration = <9.10 ng/L 9.10 32.2 U

Total Nanomoles = 0.004

Average Molecular Weight = 268.7

Number of Calibrated Peaks Found = 54

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 180891.6

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
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**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/22/2009 11:45:42  
 Lab Sample ID: AM17150B  
 LRF ID: CEBLK-72  
 Lab File ID: GC16-798-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001		2	-	-
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.57	2:2	004 010	0.2887	2-2; 26	28.738	34.608
6	14.41	2:1	007 009		24; 25	-	-
7	14.73	2:1	006		2-3	-	-
8	14.93	2:1	005 008		23; 2-4	-	-
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019		26-2	-	-
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013		34; 3-4	-	-
14	16.40	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.53	3:2	017		24-2	-	-
16	16.81	3:2	024 027		236; 26-3	-	-
17	17.07	3:2	016 032		23-2; 26-4	-	-
19	17.54	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.70	3:1	029	0.3766	245	1.710	1.785
21	17.82	3:1	026	0.3791	25-3	12.016	12.537
22	17.90	3:1	025	0.3809	24-3	8.699	9.077
23	18.12	3:1	031		25-4	-	-
24	18.19	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.52	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.75	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.97	4:3	045	0.4036	236-2	15.766	14.506
28	19.12	3:0	036		35-3	-	-
29	19.27	4:3	046		23-26	-	-
30	19.39	3:0	039		35-4	-	-
31	19.53	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.72	4:2	043 049		235-2; 24-25	-	-
33	19.83	4:2	038 047		345; 24-24	-	-
34	19.86	4:2	048 075		245-2; 246-4	-	-
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.30	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.42	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.78	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
41	20.91	5:4	068 096		24-35; 236-26	-	-
42	21.04	4:2	040		23-23	-	-
43	21.26	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.50	4:1 5:3	058 067 100	0.4574	23-35; 245-3; 246-24	3.215	2.890
45	21.62	4:1	063		235-4	-	-
46	21.78	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.91	4:1	070		25-34	-	-
48	22.08	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.35	4:1 5:3	055 091 121	0.4755	234-3; 236-24; 246-35	4.846	4.010
50	22.65	4:1	056 060		23-34; 234-4	-	-
51	22.91	5:3 6:4	084 092 155	0.4874	236-23; 235-25; 246-246	10.523	8.662
52	22.99	5:3	089	0.4891	234-26	5.094	4.193
53	23.15	5:2	090 101		235-24; 245-25	-	-
54	23.36	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.63	5:2 6:4	119 150	0.5028	246-34; 236-246	0.600	0.494
56	23.71	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.92	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	5.632	4.636
58	24.10	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.30	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	24.36	6:4	120 136		245-35; 236-236	-	-
61	24.51	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.79	6:3	154		245-246	-	-
63	24.87	5:2	082	0.5291	234-23	3.160	2.601
64	25.18	6:3	151		2356-25	-	-
65	25.31	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.38	6:3	144		2346-25	-	-
67	25.45	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.54	5:1	123		345-24	-	-
69	25.63	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.67	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.82	6:2	153		245-245	-	-
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.80	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.02	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	126 129		345-34; 2345-23	-	-
85	28.77	7:3	166 178		23456-4; 2356-235	-	-
87	29.08	7:3	175 159		2346-235; 2345-35	-	-
88	29.22	7:3	182 187		2345-246; 2356-245	-	-
89	29.35	6:2	128 162		234-234; 235-345	-	-
90	29.53	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.15	7:3	185		23456-25	-	-
93	30.53	7:3	174 181		2345-236; 23456-24	-	-
94	30.81	7:3	177		2356-234	-	-
95	31.11	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.38	8:4	157 202		234-345; 2356-2356	-	-
98	31.55	7:3	173		23456-23	-	-
99	31.92	8:4	201		2346-2356	-	-
100	32.18	7:2	172 204		2345-235; 23456-246	-	-
101	32.48	8:4	192 197		23456-35; 2346-2346	-	-
102	32.67	7:2	180		2345-245	-	-
103	32.92	7:2	193		2356-345	-	-
104	33.23	7:2	191		2346-345	-	-
105	33.58	8:4	200 169		23456-236; 345-345	-	-
106	34.76	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = <9.10 ng/L

Total Nanomoles = 0.004

Average Molecular Weight = 268.7

Number of Calibrated Peaks Found = 54

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<i>77</i>
72 ( <b>122</b> ,131,133,142)	<i>122</i>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name: Northeast Analytical, Inc.  
ELAP ID No: 11078  
Matrix: ORGANIC FREE WATER  
Sample Wt(Dry)/Vol: 1000 mL  
% Moisture: 100  
Extraction: Solid Phase Extraction - 1L  
Conc. Extract Volume: 5000 uL  
Injection Volume: 0.5 uL  
Analytical SOP Reference: SOP NE207\_03.DOC  
Extraction SOP Reference: SOP NE178\_03.DOC  
GC Column: Agilent DB-1; 30 meter; 0.25 micron phase thickness

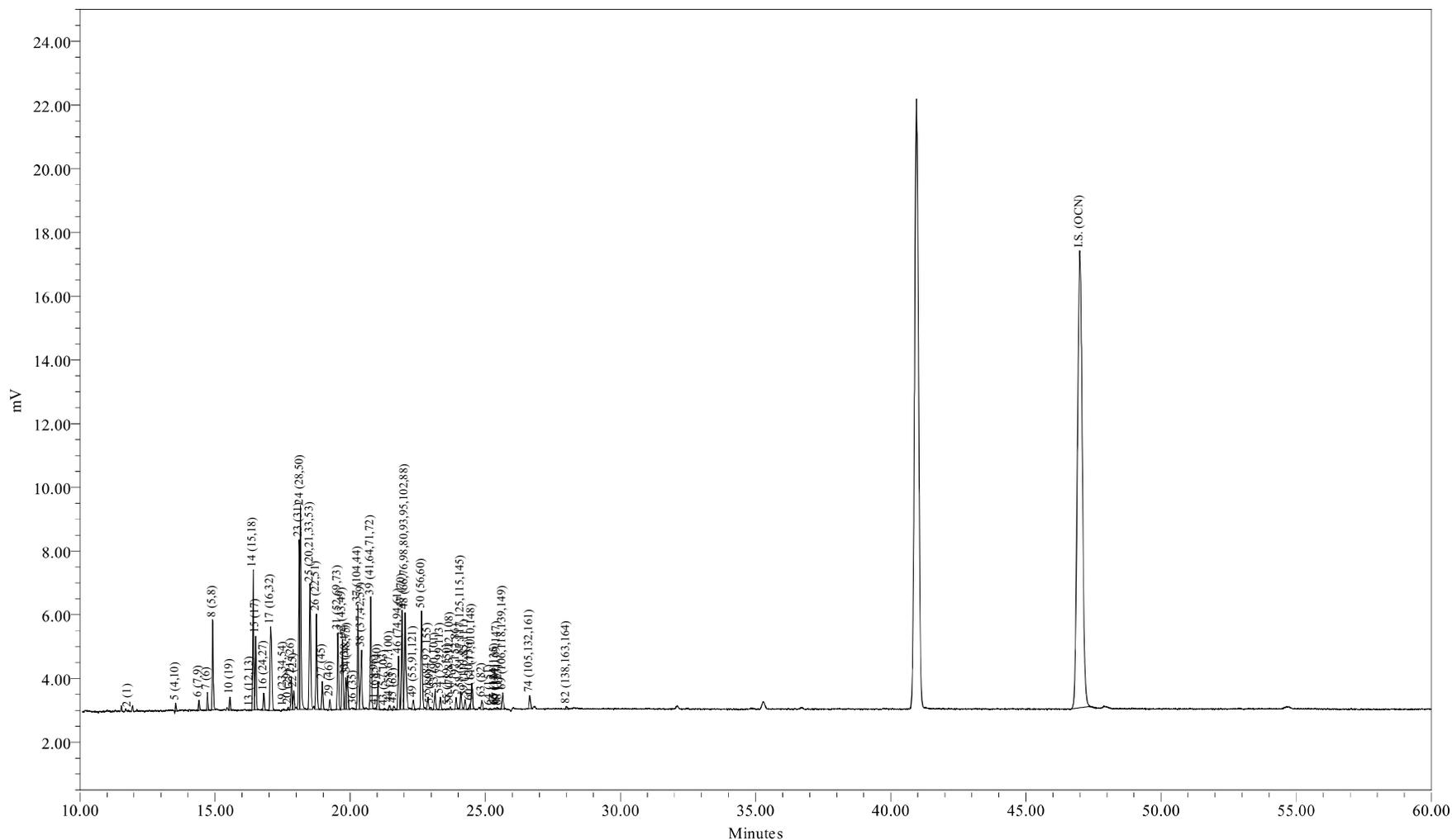
SDG No: 09090269  
LRF ID: LCS-72  
Client ID: LCS-72(LAB CONTROL SPIKE)  
Lab Sample ID: AM17150L  
Lab File ID: GC16-798-5  
Date Received: \_\_\_\_\_  
Date Extracted: 09/22/2009  
Date/Time Analyzed: 09/22/2009 12:53  
Dilution Factor: 1  
Sample Cleanup: YES

OCN (I.S.) Peak Area: 183073

Percent Recovery (50 - 150 %): 109

SAMPLE TOTAL PCB CONCENTRATION: 237 ng/L

Visual Aroclor ID: PCB Added to Sample



Sample Name: AM17150L  
Sample ID: LAB CONTROL SPIKE  
Date Acquired: 09/22/2009 12:53:07 EDT

Sample Amount (L): 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-798-5

Sample Name: AM17150L

1 of 1

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/22/2009 12:53:07  
 Lab Sample ID: AM17150L  
 LRF ID: LCS-72  
 Lab File ID: GC16-798-5

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 237 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	17.90	20.87
Tri	47.60	48.51
Tetra	29.18	26.36
Penta	4.84	3.90
Hexa	0.48	0.36
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent	
			Sediment	Biota
A1221	2/001	0.0409	0.127	0.130
A1242	23+24/31+28	30.3511	93.9	96.5
A1254SED	61/100	1.9378	5.99	
A1254BIO	69+75+82/149+153+138	1.0572		3.36
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.45

Meta + Para Cl / biphenyl Residue = 1.70

Total Cl / biphenyl Residue = 3.14

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/22/2009 12:53:07  
 Lab Sample ID: AM17150L  
 LRF ID: LCS-72  
 Lab File ID: GC16-798-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7	20			0.529	2.19	U
3	12.83	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.54	223.1	573	4.67	20.9	0.134	0.621	B
6	14.40	223.1	921	1.03	4.62	0.0721	0.219	
7	14.72	223.1	1266	2.74	12.3	0.158	0.347	
8	14.91	223.1	7109	30.1	135	0.542	2.56	
9	15.48	223.1				0.294	25.0	U
10	15.55	257.5	1067	1.46	5.69	0.0604	0.102	
11	16.03	257.5				0.198	25.0	U
12	16.09	223.1				0.306	25.0	U
13	16.29	223.1	85	0.162	0.728	0.0559	0.0975	
14	16.42	249.0	11543	15.0	60.4	0.128	0.676	
15	16.50	257.5	6117	16.4	63.8	0.143	0.676	
16	16.80	257.5	1533	1.37	5.30	0.0374	0.0475	
17	17.06	257.5	11438	17.7	68.6	0.166	0.713	
19	17.53	267.9	111	0.139	0.517	0.128	25.0	J
20	17.71	257.5	160	0.117	0.455	0.0108	0.0194	B
21	17.83	257.5	3007	3.45	13.4	0.0606	0.132	B
22	17.91	257.5	1747	1.33	5.17	0.0426	0.0585	B
23	18.11	257.5	13854	13.2	51.3	0.487	0.753	
24	18.16	257.5	19744	17.1	66.5	0.211	0.964	
25	18.51	259.5	13654	15.2	58.4	0.105	0.726	
26	18.75	258.7	8937	10.8	41.8	0.120	0.530	
27	18.97	292.0	2452	2.41	8.26	0.0367	0.163	B
28	19.12	257.5				0.375	25.0	U
29	19.25	292.0	865	0.917	3.14	0.127	0.127	
30	19.39	257.5				0.120	25.0	U
31	19.55	292.0	6856	9.40	32.2	0.204	0.872	
32	19.71	292.0	6541	4.60	15.7	0.0978	0.420	
33	19.83	292.0	2855	1.39	4.77	0.0656	0.183	
34	19.89	292.0	3261	2.21	7.55	0.0579	0.183	
35	20.04	292.0				0.205	25.0	U
36	20.13	257.5	35			0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0	9433	8.46	29.0	0.160	0.786	
38	20.42	272.4	7260	7.91	29.0	0.115	0.475	
39	20.76	292.0	11305	7.92	27.1	0.121	0.749	
41	20.93	326.4	34			0.115	25.0	U
42	21.03	292.0	2592	2.17	7.42	0.0968	0.172	
43	21.26	298.9	156			0.152	25.0	U
44	21.46	298.9	546	0.353	1.18	0.0225	0.0402	B
45	21.61	292.0	420	0.249	0.852	0.0299	0.0384	
46	21.79	292.0	5103	2.54	8.70	0.0821	0.347	
47	21.92	292.0	9636	5.84	20.0	0.164	0.621	
48	22.03	293.5	11705	10.6	36.0	0.243	1.32	
49	22.34	324.7	1021	0.758	2.33	0.0376	0.0932	B
50	22.64	292.0	9911	6.03	20.6	0.359	0.640	
51	22.88	326.4	1431	2.20	6.74	0.0888	0.329	B
52	22.98	326.4	260	0.176	0.539	0.0384	0.0384	B
53	23.14	326.4	1738	1.27	3.89	0.0691	0.329	
54	23.33	326.4	1244	0.573	1.76	0.101	0.135	
55	23.62	326.4	114	0.0295	0.0903	0.00644	0.0102	B
56	23.71	326.4	250	0.184	0.564	0.0647	0.0647	
57	23.92	326.4	1088	0.566	1.73	0.0435	0.102	B
58	24.09	326.4	1889	1.23	3.76	0.0841	0.212	
59	24.25	326.4	1068	0.574	1.76	0.0484	0.128	
60	24.44	360.9	420	0.283	0.785	0.0772	0.137	
61	24.50	326.4	2675	1.94	5.94	0.0668	0.389	
62	24.79	360.9				0.113	25.0	U
63	24.87	326.4	921	0.468	1.43	0.0201	0.0804	B
64	25.17	360.9	108			0.0518	0.311	U
65	25.34	350.5	121	0.0345	0.0985	0.0149	0.0530	J
66	25.36	360.9	69	0.0718	0.199	0.0541	0.110	J
67	25.44	336.8	152	0.105	0.312	0.0348	0.0475	
68	25.49	326.4	70			0.125	25.0	U
69	25.64	337.5	1761	0.952	2.82	0.0938	0.731	
70	25.74	360.9				0.0829	25.0	U
71	26.04	347.8				0.0348	0.0369	U
72	26.23	336.8				0.00638	0.0106	U
73	26.52	360.9				0.0320	0.0713	U
74	26.64	347.8	1540	0.686	1.97	0.0721	0.248	
75	26.82	360.9				0.109	0.538	U
76	26.93	360.9				0.107	25.0	U
77	27.35	360.9				0.0637	0.311	U
78	27.42	395.3				0.0470	0.267	U
79	27.65	360.9				0.0501	0.0501	U
80	27.80	360.9				0.0151	0.0475	U
82	28.00	360.9	369			0.108	0.493	U
83	28.21	360.9				0.0450	0.0457	U
84	28.42	360.9				0.00310	0.00473	U
85	28.77	395.3				0.0677	0.201	U
87	29.08	395.3				0.0156	0.0731	U
88	29.22	395.3				0.102	0.658	U
89	29.35	360.9				0.0199	0.0366	U
90	29.53	395.3				0.0679	0.311	U
91	29.83	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.0225	0.0859	U
93	30.53	394.3				0.102	0.585	U
94	30.81	394.3				0.0936	0.311	U
95	31.11	382.2				0.0871	0.144	U
96	31.38	429.8				0.00942	0.0121	U
98	31.55	395.3				0.0133	0.0139	U
99	31.92	429.8				0.0863	0.0863	U
100	32.18	395.3				0.127	0.127	U
101	32.48	429.8				0.217	0.217	U
102	32.67	395.3				0.150	1.11	U
103	32.92	395.3				0.0640	0.0768	U
104	33.23	395.3				0.0374	0.0438	U
105	33.58	429.8				0.0460	0.0786	U
106	34.76	395.3				0.0538	0.234	U
107	35.04	395.3				0.0213	0.0768	U
108	35.92	429.8				0.0324	0.0438	U
109	36.16	429.8				0.116	0.768	U
110	36.71	429.8				0.184	0.786	U
111	37.90	395.3				0.0231	0.0231	U
112	39.49	429.8				0.0368	0.101	U
113	40.01	464.2				0.0438	0.0903	U
114	40.97	464.2				0.0154	0.0340	U
115	42.42	429.8				0.0969	0.329	U
116	43.32	429.8				0.0838	0.0838	U
117	48.57	464.2				0.0384	0.124	U
118	54.73	498.6				0.0126	0.0126	U

Total Concentration = 237 ng/L

9.10

32.2

Total Nanomoles = 0.903

Average Molecular Weight = 262.5

Number of Calibrated Peaks Found = 59

Internal Standard Retention Time = 46.99 minutes

Internal Standard Peak Area = 183072.8

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090922-BNEA-01  
 Date Acquired: 09/22/2009 12:53:07  
 Lab Sample ID: AM17150L  
 LRF ID: LCS-72  
 Lab File ID: GC16-798-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001		2	-	-
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.54	2:2	004 010	0.2881	2-2; 26	1.971	2.319
6	14.40	2:1	007 009	0.3064	24; 25	0.435	0.512
7	14.72	2:1	006	0.3133	2-3	1.157	1.361
8	14.91	2:1	005 008	0.3173	23; 2-4	12.694	14.935
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	0.618	0.630
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013	0.3467	34; 3-4	0.069	0.081
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	6.347	6.691
15	16.50	3:2	017	0.3511	24-2	6.929	7.064
16	16.80	3:2	024 027	0.3575	236; 26-3	0.576	0.587
17	17.06	3:2	016 032	0.3631	23-2; 26-4	7.454	7.598
19	17.53	3:1 4:4	023 034 054	0.3731	235; 35-2; 26-26	0.058	0.057
20	17.71	3:1	029	0.3769	245	0.049	0.050
21	17.83	3:1	026	0.3794	25-3	1.457	1.485
22	17.91	3:1	025	0.3811	24-3	0.562	0.572
23	18.11	3:1	031	0.3854	25-4	5.574	5.682
24	18.16	3:1 4:3	028 050	0.3865	24-4; 246-2	7.228	7.368
25	18.51	3:1 4:3	020 021 033 053	0.3939	23-3; 234; 34-2; 25-26	6.390	6.464
26	18.75	3:1 4:3	022 051	0.3990	23-4; 24-26	4.559	4.626
27	18.97	4:3	045	0.4037	236-2	1.017	0.914
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4097	23-26	0.387	0.348
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.963	3.562
32	19.71	4:2	043 049	0.4195	235-2; 24-25	1.940	1.743
33	19.83	4:2	038 047	0.4220	345; 24-24	0.588	0.528
34	19.89	4:2	048 075	0.4233	245-2; 246-4	0.930	0.836
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044	0.4318	246-26; 23-25	3.570	3.209
38	20.42	3:0 4:2	037 042 059	0.4346	34-4; 23-24; 236-3	3.337	3.216
39	20.76	4:2	041 064 071 072	0.4418	234-2; 236-4; 26-34; 25-35	3.340	3.003

DB-1 Peak <sup>1</sup>	Retention					Weight	Mole
Number	Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Percent	Percent
41	20.93	5:4	068 096		24-35; 236-26	-	-
42	21.03	4:2	040	0.4475	23-23	0.914	0.822
43	21.26	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.46	4:1 5:3	058 067 100	0.4567	23-35; 245-3; 246-24	0.149	0.131
45	21.61	4:1	063	0.4599	235-4	0.105	0.094
46	21.79	4:1 5:3	074 094 061	0.4637	245-4; 235-26; 2345	1.071	0.963
47	21.92	4:1	070	0.4665	25-34	2.465	2.216
48	22.03	4:1 5:3	066 076 098 080 093 095 102 088	0.4688	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.451	3.981
49	22.34	4:1 5:3	055 091 121	0.4754	234-3; 236-24; 246-35	0.320	0.258
50	22.64	4:1	056 060	0.4818	23-34; 234-4	2.542	2.285
51	22.88	5:3 6:4	084 092 155	0.4869	236-23; 235-25; 246-246	0.928	0.746
52	22.98	5:3	089	0.4890	234-26	0.074	0.060
53	23.14	5:2	090 101	0.4924	235-24; 245-25	0.536	0.431
54	23.33	5:2	079 099 113	0.4965	34-35; 245-24; 236-35	0.242	0.194
55	23.62	5:2 6:4	119 150	0.5027	246-34; 236-246	0.012	0.010
56	23.71	5:2	078 083 112 108	0.5046	345-3; 235-23; 2356-3; 2346-3	0.078	0.062
57	23.92	5:2 6:4	097 152 086	0.5090	245-23; 2356-26; 2345-2	0.239	0.192
58	24.09	5:2	081 087 117 125 115 145	0.5127	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.518	0.417
59	24.25	5:2	116 085 111	0.5161	23456; 234-24; 235-35	0.242	0.195
60	24.44	6:4	120 136	0.5201	245-35; 236-236	0.119	0.087
61	24.50	5:2	077 110 148	0.5214	34-34; 236-34; 235-246	0.817	0.657
62	24.79	6:3	154		245-246	-	-
63	24.87	5:2	082	0.5293	234-23	0.198	0.159
64	25.17	6:3	151		2356-25	-	-
65	25.34	5:1 6:3	124 135	0.5393	345-25; 235-236	0.015	0.011
66	25.36	6:3	144	0.5397	2346-25	0.030	0.022
67	25.44	5:1 6:3	107 109 147	0.5414	234-35; 235-34; 2356-24	0.044	0.035
68	25.49	5:1	123		345-24	-	-
69	25.64	5:1 6:3	106 118 139 149	0.5456	2345-3; 245-34; 2346-24; 236-245	0.401	0.312
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.64	5:1 6:3	105 132 161	0.5669	234-34; 234-236; 2346-35	0.289	0.218
75	26.82	6:2	153		245-245	-	-
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.80	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.00	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	126 129		345-34; 2345-23	-	-
85	28.77	7:3	166 178		23456-4; 2356-235	-	-
87	29.08	7:3	175 159		2346-235; 2345-35	-	-
88	29.22	7:3	182 187		2345-246; 2356-245	-	-
89	29.35	6:2	128 162		234-234; 235-345	-	-
90	29.53	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.15	7:3	185		23456-25	-	-
93	30.53	7:3	174 181		2345-236; 23456-24	-	-
94	30.81	7:3	177		2356-234	-	-
95	31.11	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.38	8:4	157 202		234-345; 2356-2356	-	-
98	31.55	7:3	173		23456-23	-	-
99	31.92	8:4	201		2346-2356	-	-
100	32.18	7:2	172 204		2345-235; 23456-246	-	-
101	32.48	8:4	192 197		23456-35; 2346-2346	-	-
102	32.67	7:2	180		2345-245	-	-
103	32.92	7:2	193		2356-345	-	-
104	33.23	7:2	191		2346-345	-	-
105	33.58	8:4	200 169		23456-236; 345-345	-	-
106	34.76	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 237 ng/L

Total Nanomoles = 0.903

Average Molecular Weight = 262.5

Number of Calibrated Peaks Found = 59

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

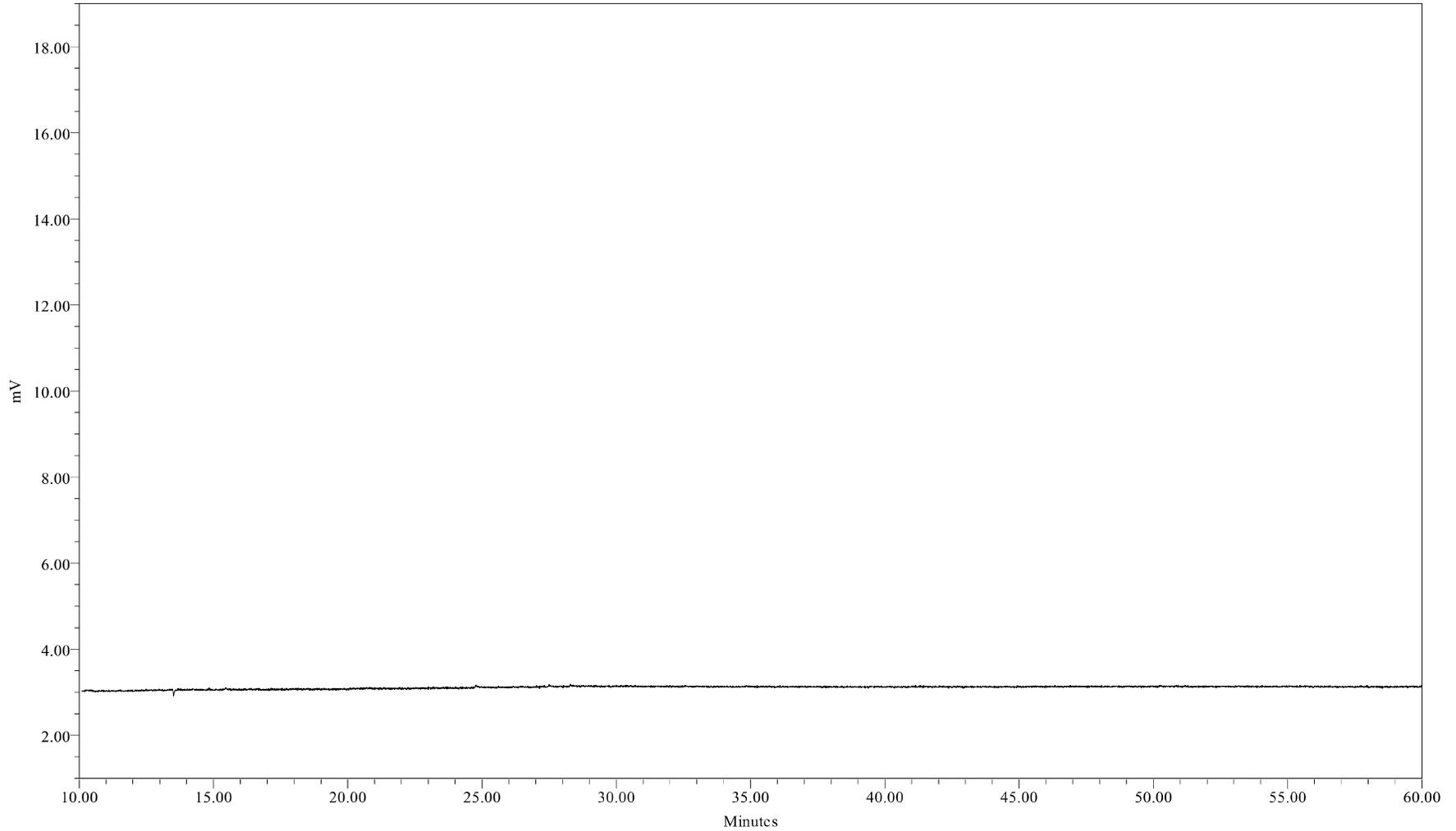
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 ( <b>78</b> , <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105 ( <b>200</b> ,169)	<i>169</i>

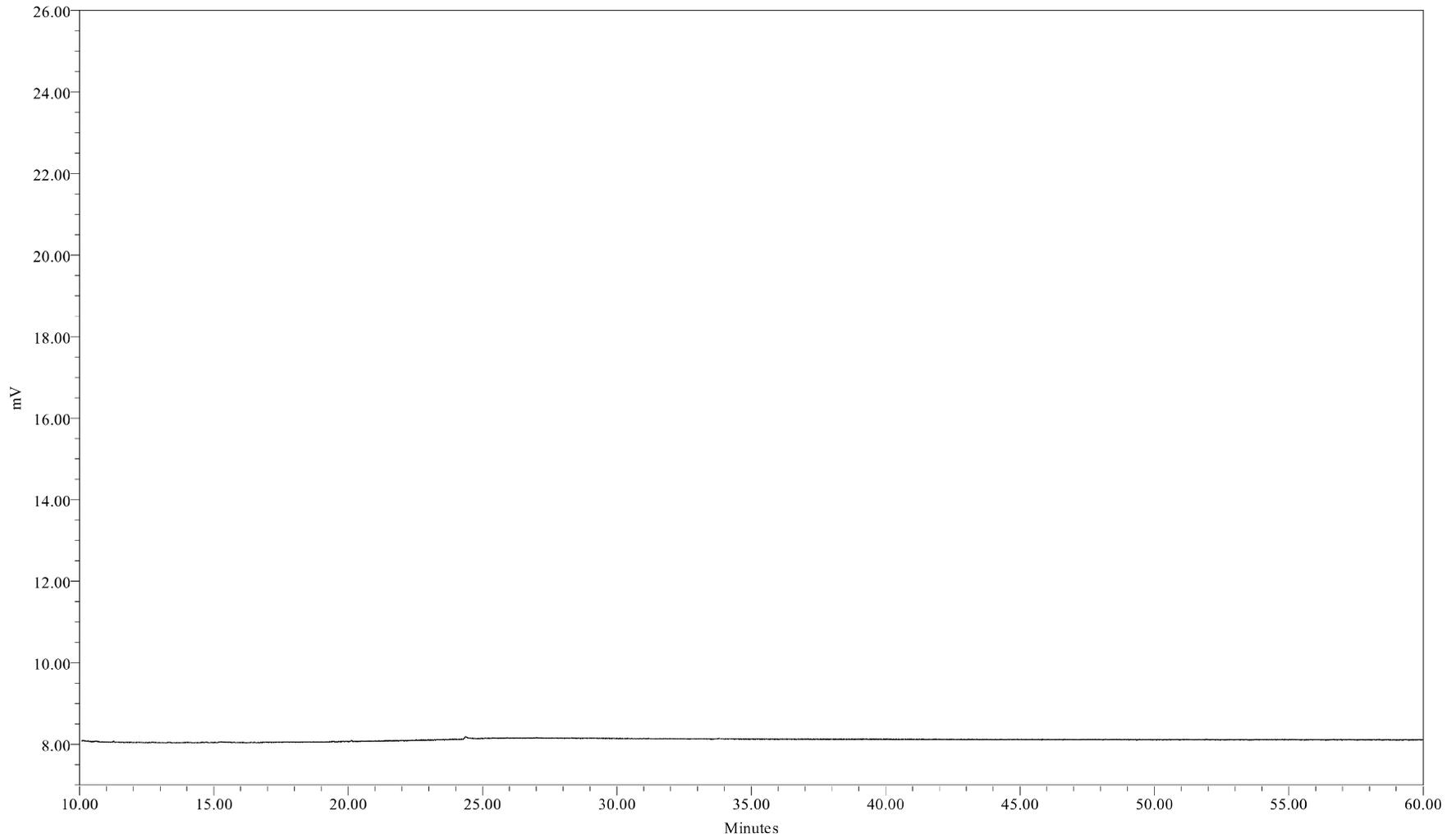


Sample Name: 090922B02  
Sample ID: HEXANE BLANK  
Date Acquired: 09/22/2009 09:30:57 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSG\_B\_LL1X\_082309  
LIMS File ID: GC16-798-2

Sample Name: 090922B02

1 of 1



Sample Name: 090922B04  
Sample ID: HEXANE BLANK  
Date Acquired: 09/22/2009 22:11:40 EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-175-5

Sample Name: 090922B04

1 of 1

# MDL Studies

## Pooled Modified Green Bay Method MDL 1 Liter

Compiled May 2009

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL	
Water Column	PCBs (1 liter)	Total PCB (sum of congeners)	1336-36-3	Modified Green Bay Mass Balance Method (NEA 207_03)	ng/L	9.10	32.2	
		DB-1 Peak:	02	2051-60-7	NEA 207_03	ng/L	0.529	2.19
			03	2051-61-8	NEA 207_03	ng/L	6.63	1000
			04	2051-62-9	NEA 207_03	ng/L	0.355	1.28
			05	13029-08-8 33146-45-1	NEA 207_03	ng/L	0.134	0.621
			06	33284-50-3 34883-39-1	NEA 207_03	ng/L	0.0721	0.219
			07	25569-80-6	NEA 207_03	ng/L	0.158	0.347
			08	16605-91-7 34883-43-7	NEA 207_03	ng/L	0.542	2.56
			09	34883-41-5	NEA 207_03	ng/L	0.294	25.0
			10	38444-73-4	NEA 207_03	ng/L	0.0604	0.102
			11	35693-92-6	NEA 207_03	ng/L	0.198	25.0
			12	2050-67-1	NEA 207_03	ng/L	0.306	25.0
			13	2974-92-7 2974-90-5	NEA 207_03	ng/L	0.0559	0.0975
			14	2050-68-2 37680-65-2	NEA 207_03	ng/L	0.128	0.676
			15	37680-66-3	NEA 207_03	ng/L	0.143	0.676
			16	55702-45-9 38444-76-7	NEA 207_03	ng/L	0.0374	0.047
			17	38444-78-9 38444-77-8	NEA 207_03	ng/L	0.166	0.713
			19	55720-44-0 37680-68-5 15968-05-5	NEA 207_03	ng/L	0.128	25.0
			20	15862-07-4	NEA 207_03	ng/L	0.0108	0.0194
			21	38444-81-4	NEA 207_03	ng/L	0.0606	0.132
			22	55712-37-3	NEA 207_03	ng/L	0.0426	0.0585
			23	16606-02-3	NEA 207_03	ng/L	0.487	0.753
			24	7012-37-5 62796-65-0	NEA 207_03	ng/L	0.211	0.964
			25	38444-84-7 55702-46-0 38444-86-9 41464-41-9	NEA 207_03	ng/L	0.105	0.726
			26	38444-85-8 68194-04-7	NEA 207_03	ng/L	0.120	0.530
			27	70362-45-7	NEA 207_03	ng/L	0.0367	0.163
			28	38444-87-0	NEA 207_03	ng/L	0.375	25.0
			29	41464-47-5	NEA 207_03	ng/L	0.127	0.127
			30	38444-88-1	NEA 207_03	ng/L	0.120	25.0
			31	35693-99-3 60233-24-1 74338-23-1	NEA 207_03	ng/L	0.204	0.872
			32	70362-46-8 41464-40-8	NEA 207_03	ng/L	0.0978	0.420
			33	53555-66-1 2437-79-8	NEA 207_03	ng/L	0.0656	0.183
			34	70362-47-9 32598-12-2	NEA 207_03	ng/L	0.0579	0.183
			35	54230-22-7 33284-54-7	NEA 207_03	ng/L	0.205	25.0
			36	37680-69-6	NEA 207_03	ng/L	0.144	25.0
			37	56558-16-8 41464-39-5	NEA 207_03	ng/L	0.160	0.786
			38	38444-90-5 36559-22-5 74472-33-6	NEA 207_03	ng/L	0.115	0.475
			39	52663-59-9 52663-58-8 41464-46-4 41464-42-0	NEA 207_03	ng/L	0.121	0.749
			41	73575-52-7 73575-54-9	NEA 207_03	ng/L	0.115	25.0
			42	38444-93-8	NEA 207_03	ng/L	0.0968	0.172
			43	70424-67-8 60145-21-3	NEA 207_03	ng/L	0.152	25.0
			44	41464-49-7 73575-53-8 39485-83-1	NEA 207_03	ng/L	0.0225	0.0402

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		45	74472-34-7	NEA 207_03	ng/L	0.0299	0.0384
		46	32690-93-0 73575-55-0 33284-53-6	NEA 207_03	ng/L	0.0821	0.347
		47	32598-11-1	NEA 207_03	ng/L	0.164	0.621
		48	32598-10-0 70362-48-0 60233-25-2 33284-52-5 73575-56-1 38379-99-6 68194-06-9 55215-17-3	NEA 207_03	ng/L	0.243	1.32
		49	74338-24-2 68194-05-8 56558-18-0	NEA 207_03	ng/L	0.0376	0.093
		50	41464-43-1 33025-41-1	NEA 207_03	ng/L	0.359	0.640
		51	52663-60-2 52663-61-3 33979-03-2	NEA 207_03	ng/L	0.0888	0.329
		52	73575-57-2	NEA 207_03	ng/L	0.0384	0.0384
		53	68194-07-0 37680-73-2	NEA 207_03	ng/L	0.0691	0.329
		54	41464-48-6 38380-01-7 68194-10-5	NEA 207_03	ng/L	0.101	0.135
		55	56558-17-9 68194-08-1	NEA 207_03	ng/L	0.00644	0.0102
		56	70362-49-1 60145-20-2 74472-36-9 70362-41-3	NEA 207_03	ng/L	0.0647	0.0647
		57	41464-51-1 68194-09-2 55312-69-1	NEA 207_03	ng/L	0.0435	0.102
		58	70362-50-4 38380-02-8 68194-11-06 74472-39-2 39635-32-0 74472-38-1 74472-40-5	NEA 207_03	ng/L	0.0841	0.212
		59	18259-05-7 65510-45-4	NEA 207_03	ng/L	0.0484	0.128
		60	68194-12-7 38411-22-2	NEA 207_03	ng/L	0.0772	0.137
		61	32598-13-3 38380-03-9 74472-41-6	NEA 207_03	ng/L	0.0668	0.389
		62	60145-22-4	NEA 207_03	ng/L	0.113	25.0
		63	52663-62-4	NEA 207_03	ng/L	0.0201	0.0804
		64	52663-63-5	NEA 207_03	ng/L	0.0518	0.311
		65	70424-70-3 52744-13-5	NEA 207_03	ng/L	0.0149	0.0530
		66	68194-14-9	NEA 207_03	ng/L	0.0541	0.110
		67	70424-68-9 74472-35-8 68194-13-8	NEA 207_03	ng/L	0.0348	0.0475
		68	65510-44-3	NEA 207_03	ng/L	0.125	25.0
		69	70424-69-0 31508-00-6 56030-56-9 38380-04-0	NEA 207_03	ng/L	0.0938	0.731
		70	59291-64-4	NEA 207_03	ng/L	0.0829	25.0
		71	74472-37-0 52704-70-8 68194-15-0	NEA 207_03	ng/L	0.0348	0.0369
		72	76842-07-4 61798-70-7 35694-04-3 41411-61-4	NEA 207_03	ng/L	0.00638	0.0106
		73	51908-16-8 74472-46-1 74487-85-7	NEA 207_03	ng/L	0.0320	0.0713
		74	32598-14-4 38380-05-1 74472-43-8	NEA 207_03	ng/L	0.0721	0.248

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		75	35065-27-1	NEA 207_03	ng/L	0.109	0.538
		76	39635-33-1 59291-65-5 74472-48-3	NEA 207_03	ng/L	0.107	25.0
		77	52712-04-6	NEA 207_03	ng/L	0.064	0.311
		78	52663-64-6	NEA 207_03	ng/L	0.0470	0.267
		79	35694-06-5	NEA 207_03	ng/L	0.0501	0.0501
		80	52663-66-8 52663-65-7	NEA 207_03	ng/L	0.0151	0.0475
		82	35065-28-2 74472-44-9 74472-45-0	NEA 207_03	ng/L	0.108	0.493
		83	74472-42-7 41411-62-5 74472-49-4	NEA 207_03	ng/L	0.0450	0.0457
		84	57465-28-8 55215-18-4	NEA 207_03	ng/L	0.00310	0.00473
		85	41411-63-6 52663-67-9	NEA 207_03	ng/L	0.0677	0.201
		87	40186-70-7 39635-35-3	NEA 207_03	ng/L	0.0156	0.0731
		88	60145-23-5 52663-68-0	NEA 207_03	ng/L	0.102	0.658
		89	38380-07-3 39635-34-2	NEA 207_03	ng/L	0.0199	0.0366
		90	52663-69-1	NEA 207_03	ng/L	0.0679	0.311
		91	52663-72-6	NEA 207_03	ng/L	0.0348	0.0348
		92	52712-05-7	NEA 207_03	ng/L	0.0225	0.0859
		93	38411-25-5 74472-47-2	NEA 207_03	ng/L	0.102	0.585
		94	52663-70-4	NEA 207_03	ng/L	0.0936	0.311
		95	38380-08-4 52663-71-5	NEA 207_03	ng/L	0.0871	0.144
		96	69782-90-7 2136-99-4	NEA 207_03	ng/L	0.00942	0.0121
		98	68194-16-1	NEA 207_03	ng/L	0.0133	0.0139
		99	40186-71-8	NEA 207_03	ng/L	0.0863	0.0863
		100	52663-74-8 74472-52-9	NEA 207_03	ng/L	0.127	0.127
		101	74472-51-8 33091-17-7	NEA 207_03	ng/L	0.217	0.217
		102	35065-29-3	NEA 207_03	ng/L	0.150	1.11
		103	69782-91-8	NEA 207_03	ng/L	0.0640	0.0768
		104	74472-50-7	NEA 207_03	ng/L	0.0374	0.0438
		105	52663-73-7 32774-16-6	NEA 207_03	ng/L	0.0460	0.0786
		106	35065-30-6	NEA 207_03	ng/L	0.0538	0.234
		107	41411-64-7	NEA 207_03	ng/L	0.0213	0.0768
		108	68194-17-2	NEA 207_03	ng/L	0.0324	0.0438
		109	52663-75-9	NEA 207_03	ng/L	0.116	0.768
		110	42740-50-1 52663-76-0	NEA 207_03	ng/L	0.184	0.786
		111	39635-31-9	NEA 207_03	ng/L	0.0231	0.0231
		112	52663-78-2	NEA 207_03	ng/L	0.0368	0.101
		113	52663-77-1	NEA 207_03	ng/L	0.0438	0.0902
		114 (surrogate)	52663-79-3	NEA 207_03	ng/L	0.0154	0.0340
		115	35694-08-7	NEA 207_03	ng/L	0.0969	0.329
		116	74472-53-0	NEA 207_03	ng/L	0.0838	0.084
		117	40186-72-9	NEA 207_03	ng/L	0.0384	0.124
		118	2051-24-3	NEA 207_03	ng/L	0.0126	0.0126

Note:

\*\* - Peak 114 corresponds to IUPAC 207, which is the surrogate.

PCB SAMPLE DATA SUMMARY PACKAGE FOR:

ANCHOR QUANTITATIVE ENVIRONMENTAL ANALYSIS, LLC  
305 WEST GRAND AVENUE  
MONTVALE, NEW JERSEY 07645

TOTAL PCB: GREEN BAY METHOD (NE207\_03.DOC)

DATE: September 24, 2009-G

LRF: 09090294

PROVIDED BY : NORTHEAST ANALYTICAL, INC.  
2190 TECHNOLOGY DRIVE  
SCHENECTADY, NEW YORK 12308  
518-346-4592



**TABLE OF CONTENTS**

<u>SECTION</u>	<u>PAGE</u>
CASE NARRATIVE .....	4
SAMPLE CHAIN OF CUSTODY .....	7
INTERNAL SAMPLE TRACKING RECORD .....	9
SURROGATE RECOVERY SUMMARY .....	12
LABORATORY CONTROL SPIKE SUMMARY .....	23
METHOD BLANK SUMMARY .....	25
SAMPLE ANALYSIS DATA .....	27
SAMPLE GC INJECTION LOG (GC-16) .....	96
SAMPLE GC INJECTION LOG (GC-24) .....	104
STANDARDS SUMMARY TABLES (GC-16) .....	108
STANDARDS SUMMARY TABLES (GC-24) .....	165
CALIBRATION COMPONENT SUMMARY TABLES (GC-16) .....	212
CALIBRATION COMPONENT SUMMARY TABLES (GC-24) .....	216
STANDARDS RAW DATA (GC-16) .....	220
STANDARDS RAW DATA (GC-24) .....	276
QC SAMPLE RAW DATA .....	299
MDL STUDIES .....	320

# Case Narrative

October 20, 2009

CASE NARRATIVE

This data package (NEA SDG ID: 09090294) consists of 4 water samples received on 09/23/2009. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AM17389	WFF-LOC5-090923-BT001	09/23/2009 13:29
AM17390	WFF-SCHU-090923-BT001	09/23/2009 13:28
AM17391	WFF-THIS-090923-BT001	09/23/2009 11:23
AM17392	WFF-TIDA-090923-BT001	09/23/2009 11:30

Sample Delivery and Receipt Conditions

- (1.) Northeast Analytical provided sample pickup service on 09/23/2009.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 1.9 degrees Celsius. Please see Chain of Custody for details.

Total PCBs by Green Bay Method (1L)

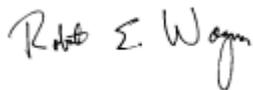
Analysis for Total PCBs was performed by NEA SOP NE207\_03. Samples were extracted by USEPA SW-846 Method 3535 Solid Phase Extraction. One-liter water samples were extracted by NEA SOP NE178\_03. The following technical and administrative items were noted for the analysis:

- (1.) Note: Hudson River Bias Correction applied (v09/23/2004) to GC Column peaks 5, 8, and 14 (which are comprised of congeners IUPAC 4 and 10; IUPAC 5 and 8; and IUPAC 15 and 18, respectively). Please see SOP NE207\_03 for details.
- (2.) Peak 16, Peak 21, Peak 22, Peak 27, Peak 55, and Peak 57 were observed in the Method Blank sample. All associated positive sample concentration results have been flagged (B) to denote the observed contamination.
- (3.) Sample WFF-THIS-090923-BT001(NEA ID: AM17391) required additional analysis at a dilution for Peak 2, Peak 5, Peak 10, and Peak 16 to be within the calibration curve range of the instrument. The initial dilution was run at an incorrect dilution. The sample was re-prepped and re-analyzed. This analysis is included in this data package and is identified with a NEA ID suffix of DL1RR1. The concentration for Peak 2, Peak 5, Peak 10, and Peak 16 are included in the original analysis to provide the correct PCB total concentration.
- (4.) Samples WFF-LOC5-090923-BT001, WFF-SCHU-090923-BT001 and WFF-TIDA-090923-BT001 (NEA ID: AM17389, AM17390, and AM17392) required additional analysis at a dilution for Peak 5, Peak 10, and Peak 16 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a NEA ID suffix of DL1. The concentration for Peak 5, Peak 10, and Peak 16 are included in the original analysis to provide the correct PCB total concentration.

Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the PQL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,

A handwritten signature in black ink that reads "Robert E. Wagner". The signature is written in a cursive style with a large, stylized "R" and "W".

Robert E. Wagner  
Laboratory Director & Founder

# Sample Chain Of Custody



303 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9090

Client: General Electric Company

## ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC090923-BNEA-01

Sample Custodian: KMB

Lab: NEA

COC Sample Number	Field Sample ID	QA/QC	MS	MSD	LD	Matrix **	Date Collected	Time Collected	Media*	# Containers	4degC								
											CS PCBs NE207_03								
001	WFF-LOC5-090923-BT001	ENV	N	N	N	W	09/23/2009	13:29	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
002	WFF-SCHU-090923-BT001	ENV	N	N	N	W	09/23/2009	13:28	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
003	WFF-THIS-090923-BT001	ENV	N	N	N	W	09/23/2009	11:23	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
004	WFF-TIDA-090923-BT001	ENV	N	N	N	W	09/23/2009	11:30	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>							

AM17389  
AM17390  
AM17391  
AM17392

Comments: Temp → 1.9°C							
Relinquished by:		Received by:		Relinquished by:		Received by:	
Signature	<i>[Signature]</i>	Signature	<i>[Signature]</i>	Signature	<i>[Signature]</i>	Signature	<i>[Signature]</i>
Print Name	John R	Print Name	Mike Caroway	Print Name	M. Caroway	Print Name	C. CUSANO
Company	AQ	Company	NEA	Company	NEA	Company	NEA
Date/Time	9/23/09 14:21	Date/Time	9/23/09 16:50	Date/Time	9/23/09 18:00	Date/Time	9/23/09 18:00

Date Printed: 9/23/2009

\* S= SEDIMENT, W= WATER \*\* T = Total, D = Dissolved, R = Residue

\*\*\* Air Tight Container; preserved at lab if not analyzed within 48 hrs.

# Internal Sample Tracking Record

CONGENER AQUEOUS EXTRACTION LOG



Prep Date: 09/23/09

Batch ID: 9383

Initial for required Clean Up Steps

	Prep ID	NEA Sample ID	Alt Sample ID	Client	Extraction Type	Matrix	Sample Amount (g or mL)	TS %	Final Ext. Vol (mL)	Date Ext (MM/DD)	Extract Time On	Extract Time Off	Date Conc (MM/DD)	TJL	TJL	TJL	Cell / Unit #	Job	pH	Comments	
														Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)					Date Hg Shake (MM/DD)
1	91791	CEBLK-74	AM17250B	GE	SPE-1L	Water	1000	N/A	5	09/23	NA	NA	09/23	09/23	NA	09/23	09/23	L4	E CON1L	5	
2	91790	LCS-74	AM17250L	GE	SPE-1L	Water	1000	N/A	5	09/23	NA	NA	09/23	09/23	NA	09/23	09/23	L5	E CON1L	5	
3	91884	09090294-01	AM17389	GE	SPE-1L	Water	990	100	5	09/23	NA	NA	09/23	09/23	NA	09/23	09/23	L1	E CON1L	5	
4	91885	09090294-02	AM17390	GE	SPE-1L	Water	980	100	5	09/23	NA	NA	09/23	09/23	NA	09/23	09/23	L2	E CON1L	5	
5	91886	09090294-03	AM17391	GE	SPE-1L	Water	990	100	5	09/23	NA	NA	09/23	09/23	NA	09/23	09/23	L3	E CON1L	5	
6	91887	09090294-04	AM17392	GE	SPE-1L	Water	990	100	5	09/23	NA	NA	09/23	09/23	NA	09/23	09/23	L4	E CON1L	5	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	E49039	NA		b	b	..	b	..	..	..
Aroclor 1242 @ 1.00PPM in Acetone (cu)	041409B27P21C	200	1.0	..	b	..	..	..	..	..
Acetone (current)	CZ366	NA		b	b	..	b	..	..	..
Dichloromethane (current)	CZ377	NA		b	b	..	b	..	..	..
Hexane	CZ440	NA		b	b	..	b	..	..	..
10% Florisil (CSGB only)current	090618F	NA		b	b	..	b	..	..	..
Methanol (current)	49107	NA		b	b	..	b	..	..	..
Speedisk (current)	H25N14	NA		b	b	..	b	..	..	..
Mercury(current)	080314	NA		b	b	..	b	..	..	..
1:1 Sulfuric Acid (SPE only)current	090818A	NA		b	b	..	b	..	..	..
Nona @ 0.2ppm in Acetone(current)	082609B27P144A1-10	500	0.2	b	b	..	b	..	..	..

SPIKED BY: Tara Snay

WITNESSED BY: Heather Gansky

SIGNATURE: *T Snay*

SIGNATURE: *Hgansky*  
09090294

# CONGENER AQUEOUS SCREEN SHEET

Batch ID: 9383

Prepared by: Kelly Ryan

NEA Sample ID	Alt Sample ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Dilution Sequence	Final Multiplier
CEBLK-74	AM17250B	Water	09/23/09	1000	5	NA	NA	NA	5x
LCS-74	AM17250L	Water	09/23/09	1000	5	NA	↓	↓	5x
09090294-01	AM17389	Water	09/23/09	990	5	NA	↓	1:10	5x, 50x
09090294-02	AM17390	Water	09/23/09	980	5	NA	↓	1:10	↓
09090294-03	AM17391	Water	09/23/09	990	5	NA	↓	1:10	↓
09090294-04	AM17392	Water	09/23/09	990	5	NA	x	1:10	↓

Soivent, Surrogate, Spike, and Acid Information      B=Blank, L=Lab Control Spike, LD=Lab Control Spike Duplicate, S=Sample, D=Duplicate, M=Matrix Spike, K=Matrix Spike Duplicate

item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aroclor 1242 @ 1.00PPM in Acetone (cur	041409B27P21C	200	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acetone (current)	CZ366	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dichloromethane (current)	CZ377	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hexane	CZ440	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% Florisil (CSGB only)current	090818F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methanol (current)	49107	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speedisk (current)	H25N14	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mercury(current)	080314	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1:1 Sulfuric Acid (SPE only)current	090818A	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nona @ 0.2ppm in Acetone	082609B27P144A1-10	500	0.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS: \_\_\_\_\_

# Surrogate % Recovery Summary

## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Lab Name: Northeast Analytical, Inc.

SDG No: 09090294

ELAP ID No: 11078

Init. Calib. Date(s): 08/23/2009

GC Column (1): Agilent DB-1; 30 meter; 0.25 micron phase thickness

Instrument ID: GC16

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS:						
IUPAC 207: <u>40.98</u>						
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)
01	ICAL 6.25 ng/mL	ICAL0823A	GC16-769-3	08/23/2009 04:27:16		
02	ICAL 12.5 ng/mL	ICAL0823B	GC16-769-4	08/23/2009 05:34:46		
03	ICAL 125 ng/mL	ICAL0823C	GC16-769-5	08/23/2009 06:42:13		
04	ICAL 314 ng/mL	ICAL0823D	GC16-769-6	08/23/2009 07:49:33		
05	ICAL 627 ng/mL	ICAL0823E	GC16-769-7	08/23/2009 08:56:52		
06	SUP CONG STD 200/5 ng/mL	SC0823A	GC16-769-9	08/23/2009 11:11:32		
07	Surr Std (207) 2.0 ng/mL	SS0823A	GC16-769-10	08/23/2009 12:18:49		
08	Surr Std (207) 20.0 ng/mL	SS0823B	GC16-769-11	08/23/2009 13:26:05		
09	Surr TCMX/DCBP 5/50 ppb	TD0823A	GC16-769-12	08/23/2009 14:33:23		
10	HEXANE BLANK	090922B02	GC16-798-2	09/22/2009 09:30:57		
11	CCC Std 122 ng/mL	CCCS0922D	GC16-798-19	09/23/2009 08:17:00		
12	CEBLK-74(METHOD BLANK)	AM17250B	GC16-799-1	09/23/2009 12:46:26	40.96	-0.02 92.7
13	LCS-74(LAB CONTROL SPIKE)	AM17250L	GC16-799-2	09/23/2009 13:53:53	40.97	-0.01 96.0
14	CCC Std 122 ng/mL	CCCS0923A	GC16-799-9	09/23/2009 21:46:16		
15	CCC Std 122 ng/mL	CCCS0923B	GC16-799-12	09/24/2009 01:08:47		
16	WFF-THIS-090923-BT001	AM17391	GC16-800-1	09/24/2009 07:53:43	40.96	-0.02 81.9
17	WFF-TIDA-090923-BT001	AM17392	GC16-800-3	09/24/2009 10:08:26	40.96	-0.02 84.6
18	WFF-TIDA-090923-BT001	AM17392DL1	GC16-800-4	09/24/2009 11:15:50	40.95	-0.03 108
19	CCC Std 122 ng/mL	CCCS0924A	GC16-800-5	09/24/2009 12:23:19		
20	WFF-THIS-090923-BT001	AM17391DL1RR1	GC16-800-6	09/24/2009 13:30:52	40.97	-0.01 98.3
21	CCC Std 122 ng/mL	CCCS0924B	GC16-800-7	09/24/2009 14:38:19		

## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Lab Name: Northeast Analytical, Inc.

SDG No: 09090294

ELAP ID No: 11078

Init. Calib. Date(s): 09/05/2009

GC Column (1): PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

Instrument ID: GC24

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS:							
IUPAC 207: <u>39.47</u>							
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)	
01	ICAL 6.25 ng/mL	ICAL0905A	GC24-163-3	09/05/2009 05:01:29			
02	ICAL 12.5 ng/mL	ICAL0905B	GC24-163-4	09/05/2009 06:06:56			
03	ICAL 125 ng/mL	ICAL0905C	GC24-163-5	09/05/2009 07:12:23			
04	ICAL 314 ng/mL	ICAL0905D	GC24-163-6	09/05/2009 08:17:51			
05	ICAL 627 ng/mL	ICAL0905E	GC24-163-7	09/05/2009 09:23:21			
06	SUP CONG STD 200/5 ng/mL	SC0905A	GC24-163-9	09/05/2009 11:34:20			
07	Surr Std (207) 2.0 ng/mL	SS0905A	GC24-163-10	09/05/2009 12:40:05			
08	Surr Std (207) 20.0 ng/mL	SS0905B	GC24-163-11	09/05/2009 13:45:34			
09	Surr TCMX/DCBP 5/50 ppb	TD0905A	GC24-163-12	09/05/2009 14:51:02			
10	CCC Std 122 ng/mL	CCCS0923A	GC24-176-7	09/24/2009 05:52:46			
11	WFF-LOC5-090923-BT001	AM17389	GC24-176-8	09/24/2009 06:58:18	39.44	-0.03	79.2
12	WFF-LOC5-090923-BT001	AM17389DL1	GC24-176-9	09/24/2009 08:03:49	39.44	-0.03	106
13	WFF-SCHU-090923-BT001	AM17390	GC24-176-10	09/24/2009 09:09:36	39.44	-0.03	82.3
14	WFF-SCHU-090923-BT001	AM17390DL1	GC24-176-11	09/24/2009 10:15:07	39.43	-0.04	114
15	CCC Std 122 ng/mL	CCCS0923B	GC24-176-16	09/24/2009 12:12:33			



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Sample Name:	AM17389	Sample Amount:	0.990 L
Sample ID:	WFF-LOC5-090923-BT001	Dilution:	5
Date Acquired:	09/24/2009 06:58:18	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/24/2009 09:17:05
Sample Set Name:	GC24_GE_092309a	User Name:	Janelle Gonyea
Processing Method:	CSGB_S_20_090509	Current Time:	06:12:42
Run Time:	60 Minutes	Current Date:	09/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-176-8

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.44	140004	15.845	79.2
2	I.S. (OCN)	45.09	192657	3.600	



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Sample Name:	AM17389DL1	Sample Amount:	0.990 L
Sample ID:	WFF-LOC5-090923-BT001	Dilution:	50
Date Acquired:	09/24/2009 08:03:49	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/24/2009 09:17:15
Sample Set Name:	GC24_GE_092309a	User Name:	Janelle Gonyea
Processing Method:	CSGB_S_20_090509	Current Time:	06:12:42
Run Time:	60 Minutes	Current Date:	09/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-176-9

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.44	17876	2.129	106
2	I.S. (OCN)	45.08	183050	0.360	



Sample Name: AM17390 Sample Amount: 0.980 L  
Sample ID: WFF-SCHU-090923-BT001 Dilution: 5  
Date Acquired: 09/24/2009 09:09:36 Extract Volume: 5 mL  
Project Name: GC24\_Mar\_2009 Date Processed: 09/24/2009 10:42:15  
Sample Set Name: GC24\_GE\_092309a User Name: Janelle Gonyea  
Processing Method: CSGB\_S\_20\_090509 Current Time: 06:12:42  
Run Time: 60 Minutes Current Date: 09/25/2009  
Report Name: CSGB\_Surrogate(NeaLims) LIMS File ID: GC24-176-10

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.44	138106	16.460	82.3
2	I.S. (OCN)	45.08	182951	3.563	



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Sample Name:	AM17390DL1	Sample Amount:	0.980 L
Sample ID:	WFF-SCHU-090923-BT001	Dilution:	50
Date Acquired:	09/24/2009 10:15:07	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	09/24/2009 12:14:11
Sample Set Name:	GC24_GE_092309a	User Name:	Janelle Gonyea
Processing Method:	CSGB_S_20_090509	Current Time:	06:12:42
Run Time:	60 Minutes	Current Date:	09/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-176-11

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.43	19351	2.286	114
2	I.S. (OCN)	45.08	184581	0.356	



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Sample Name:	AM17391	Sample Amount:	0.990 L
Sample ID:	WFF-THIS-090923-BT001	Dilution:	5
Date Acquired:	09/24/2009 07:53:43	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	09/24/2009 09:27:21
Sample Set Name:	GC16_092409	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_082309	Current Time:	06:12:42
Run Time:	60 Minutes	Current Date:	09/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-800-1

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.96	193644	16.381	81.9
2	I.S. (OCN)	47.00	205138	3.600	



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Sample Name:	AM17391DL1RR1	Sample Amount:	0.990 L
Sample ID:	WFF-THIS-090923-BT001	Dilution:	50
Date Acquired:	09/24/2009 13:30:52	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	09/24/2009 14:32:42
Sample Set Name:	GC16_092409a	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_082309	Current Time:	06:12:42
Run Time:	60 Minutes	Current Date:	09/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-800-6

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.97	21966	1.965	98.3
2	I.S. (OCN)	47.01	193961	0.360	



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Sample Name:	AM17392	Sample Amount:	0.990 L
Sample ID:	WFF-TIDA-090923-BT001	Dilution:	5
Date Acquired:	09/24/2009 10:08:26	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	09/24/2009 12:12:21
Sample Set Name:	GC16_092409	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_082309	Current Time:	06:12:42
Run Time:	60 Minutes	Current Date:	09/25/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-800-3

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.96	186313	16.922	84.6
2	I.S. (OCN)	46.99	191063	3.600	



Sample Name: AM17392DL1 Sample Amount: 0.990 L  
Sample ID: WFF-TIDA-090923-BT001 Dilution: 50  
Date Acquired: 09/24/2009 11:15:50 Extract Volume: 5 mL  
Project Name: GC16\_May\_2009 Date Processed: 09/24/2009 12:20:17  
Sample Set Name: GC16\_092409 User Name: Amy Jo Arndt  
Processing Method: CSGB\_S\_20\_082309 Current Time: 06:12:42  
Run Time: 60 Minutes Current Date: 09/25/2009  
Report Name: CSGB\_Surrogate(NeaLims) LIMS File ID: GC16-800-4

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.95	23721	2.158	108
2	I.S. (OCN)	47.00	190756	0.360	

# Laboratory Control Spike Summary

## PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Northeast Analytical, Inc.

ELAP ID No: 11078

SDG No: 09090294

LCS ID: LCS-74

Blank Sample ID: CEBLK-74

LCS File ID: GC16-799-2

Method Blank File ID: GC16-799-1

LCS Inj Date: 09/23/2009 13:53:53

Method Blank Inj Date: 09/23/2009 12:46:26

LCS NEA ID No: AM17250L

Method Blank NEA ID No: AM17250B

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS PERCENT RECOVERY		QC LIMITS PERCENT RECOVERY
				#	
Total PCBs	200	239	120		60.0-140

# Column to be used to flag recovery values.

\* Value outside of QC limits.

Comments: \_\_\_\_\_  
 \_\_\_\_\_

# Method Blank Summary

**PCB METHOD BLANK SUMMARY**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09090294</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>CEBLK-74</u>
Matrix:	<u>ORGANIC FREE WATER</u>	Client ID:	<u>CEBLK-74(METHOD BLANK)</u>
Sample Wt(Dry)/Vol:	<u>1000 mL</u>	Lab Sample ID:	<u>AM17250B</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC16-799-1</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>09/23/2009</u>
Injection Volume:	<u>0.5 uL</u>	Date/Time Analyzed:	<u>09/23/2009 12:46</u>
Analytical SOP Reference:	<u>SOP NE207_03.DOC</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>Agilent DB-1; 30 meter; 0.25 micron phase thickness</u>		

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

# Sample Analysis Data

PCB SAMPLE ANALYSIS DATA SHEET

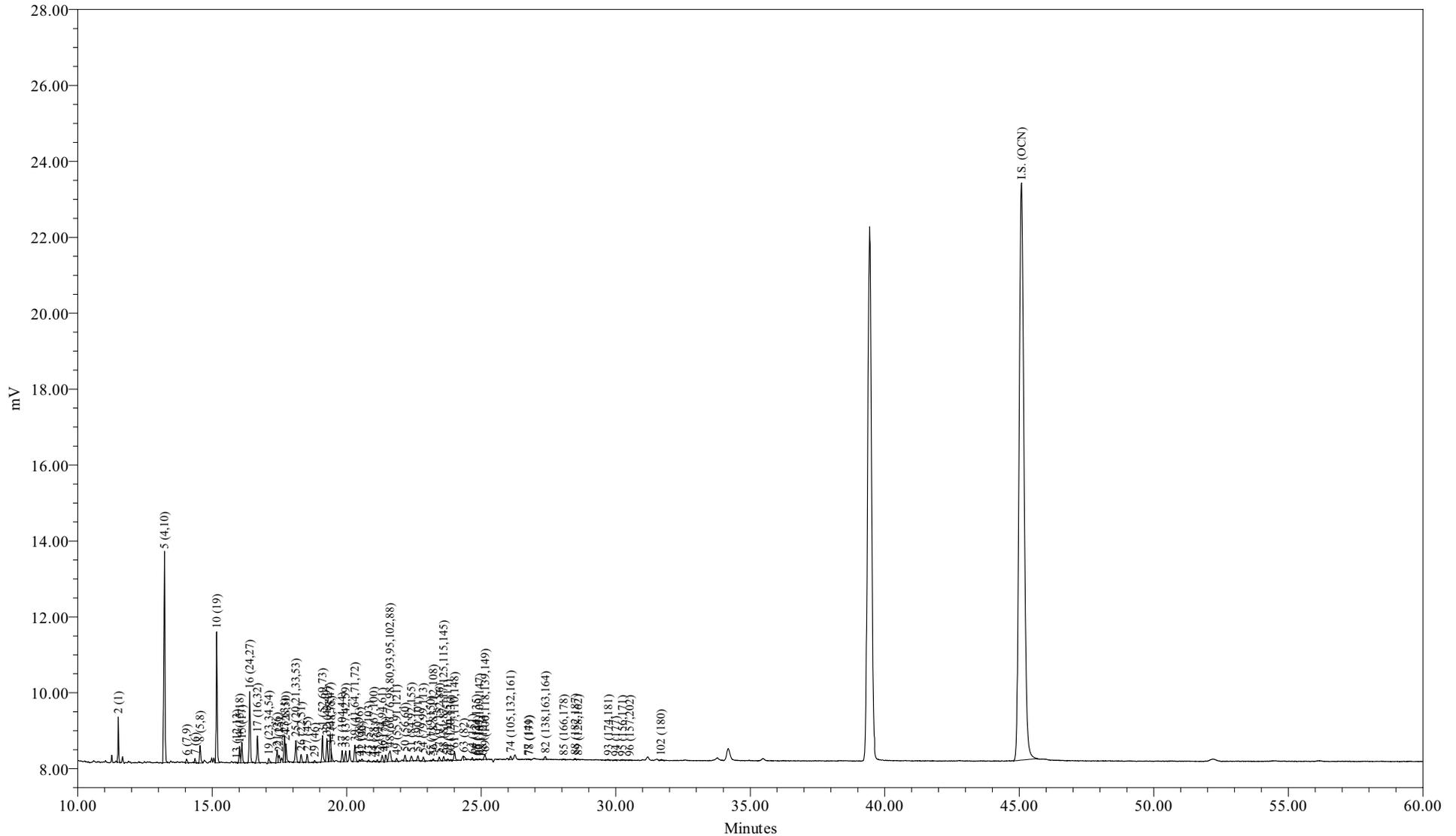
Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09090294</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>09090294-01</u>
Matrix:	<u>Water</u>	Client ID:	<u>WFF-LOC5-090923-BT001</u>
Sample Wt(Dry)/Vol:	<u>990 mL</u>	Lab Sample ID:	<u>AM17389</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-176-8</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u>09/23/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>09/23/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>09/24/2009 06:58</u>
Analytical SOP Reference:	<u>SOP NE207_03</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm</u>		

OCN (I.S.) Peak Area: 192657

Percent Recovery (50 - 150 %): 112

SAMPLE TOTAL PCB CONCENTRATION: 226 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM17389  
Sample ID: WFF-LOC5-090923-BT001  
Date Acquired: 9/24/2009 6:58:18 AM EDT

Sample Amount (L) : 0.9900  
Dilution: 5  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-176-8

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 06:58:18  
 Lab Sample ID: AM17389  
 LRF ID: 09090294-01  
 Lab File ID: GC24-176-8

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 226 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	20.74	24.72
Di	51.78	52.17
Tri	20.11	17.56
Tetra	5.66	4.38
Penta	1.57	1.08
Hexa	0.13	0.08
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	46.8490	91.8	92.6
A1242	23+24/31+28	3.6220	7.10	7.16
A1254SED	61/100	0.5567	1.09	
A1254BIO	69+75+82/149+153+138	0.1242		0.245
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.77

Meta + Para Cl / biphenyl Residue = 0.28

Total Cl / biphenyl Residue = 2.05

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 06:58:18  
 Lab Sample ID: AM17389  
 LRF ID: 09090294-01  
 Lab File ID: GC24-176-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7	2165	46.8	248	0.534	2.21	
3	12.52	188.7				6.69	1010	U
4	12.63	188.7				0.358	1.29	U
5	13.23	223.1	1927	113	507	1.35	6.28	
6	14.05	223.1	289	0.313	1.40	0.0728	0.221	
7	14.36	223.1	279	0.767	3.44	0.160	0.351	
8	14.55	223.1	1319	2.11	9.46	0.548	2.58	J
9	15.11	223.1				0.297	25.3	U
10	15.17	257.5	1060	19.1	74.1	0.610	1.03	
11	15.64	257.5				0.200	25.3	U
12	15.72	223.1				0.310	25.3	U
13	15.92	223.1	18			0.0564	0.0985	U
14	16.02	249.0	1150	2.38	9.56	0.129	0.683	
15	16.10	257.5	1551	4.14	16.1	0.145	0.683	
16	16.40	257.5	579	6.28	24.4	0.378	0.480	B
17	16.68	257.5	2131	3.94	15.3	0.168	0.720	
19	17.10	267.9	404	0.632	2.36	0.130	25.3	J
20	17.29	257.5				0.0109	0.0196	U
21	17.41	257.5	1006	1.50	5.82	0.0612	0.133	B
22	17.49	257.5	704	0.747	2.90	0.0430	0.0591	B
23	17.69	257.5	2126	2.49	9.67	0.492	0.761	
24	17.74	257.5	1436	1.13	4.40	0.213	0.974	
25	18.11	259.5	1829	2.43	9.35	0.106	0.733	
26	18.31	258.7	716	0.944	3.65	0.121	0.535	
27	18.53	292.0	599	0.698	2.39	0.0371	0.164	B
28	18.69	257.5				0.379	25.3	U
29	18.81	292.0	194	0.282	0.967	0.128	0.128	
30	18.96	257.5				0.121	25.3	U
31	19.10	292.0	2187	3.62	12.4	0.206	0.880	
32	19.27	292.0	1912	1.65	5.65	0.0988	0.425	
33	19.39	292.0	2177	1.29	4.41	0.0662	0.185	
34	19.42	292.0	611	0.492	1.69	0.0584	0.185	
35	19.59	292.0				0.207	25.3	U
36	19.69	257.5				0.146	25.3	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.83	292.0	922	0.592	2.03	0.162	0.794	J
38	19.96	272.4	920	1.19	4.38	0.116	0.480	
39	20.31	292.0	1519	1.14	3.91	0.123	0.757	
41	20.47	326.4	128	0.185	0.566	0.116	25.3	J
42	20.57	292.0	186	0.199	0.682	0.0978	0.174	
43	20.81	298.9	85			0.154	25.3	U
44	21.00	298.9	82	0.0613	0.205	0.0227	0.0406	
45	21.14	292.0	140	0.111	0.380	0.0302	0.0388	
46	21.32	292.0	612	0.294	1.01	0.0829	0.351	J
47	21.45	292.0	650	0.284	0.971	0.165	0.628	J
48	21.61	293.5	1532	1.27	4.31	0.246	1.33	J
49	21.86	324.7	260	0.258	0.795	0.0380	0.0941	
50	22.17	292.0	543			0.363	0.646	U
51	22.41	326.4	506	0.850	2.60	0.0897	0.332	
52	22.51	326.4				0.0388	0.0388	U
53	22.65	326.4	440	0.262	0.802	0.0698	0.332	J
54	22.84	326.4	416	0.219	0.670	0.102	0.137	
55	23.13	326.4	23	0.0115	0.0352	0.00650	0.0104	B
56	23.22	326.4	99	0.102	0.311	0.0654	0.0654	
57	23.44	326.4	384	0.252	0.771	0.0439	0.103	B
58	23.61	326.4	398	0.283	0.867	0.0850	0.214	
59	23.75	326.4	198	0.127	0.390	0.0489	0.129	J
60	23.87	360.9	93	0.107	0.295	0.0780	0.138	J
61	24.01	326.4	770	0.557	1.71	0.0675	0.393	
62	24.29	360.9				0.114	25.3	U
63	24.35	326.4	361	0.205	0.629	0.0203	0.0812	
64	24.67	360.9	153			0.0524	0.314	U
65	24.82	350.5	108	0.0548	0.156	0.0151	0.0535	
66	24.87	360.9	15			0.0546	0.111	U
67	24.94	336.8	85	0.0700	0.208	0.0352	0.0480	
68	25.07	326.4	6			0.126	25.3	U
69	25.14	337.5	499	0.0970	0.287	0.0947	0.738	J
70	25.24	360.9				0.0837	25.3	U
71	25.51	347.8				0.0352	0.0373	U
72	25.71	336.8				0.00645	0.0107	U
73	25.98	360.9				0.0323	0.0720	U
74	26.10	347.8	314	0.142	0.409	0.0728	0.250	J
75	26.25	360.9				0.110	0.544	U
76	26.37	360.9				0.108	25.3	U
77	26.76	360.9	37			0.0644	0.314	U
78	26.79	395.3	44			0.0475	0.269	U
79	27.02	360.9				0.0506	0.0506	U
80	27.16	360.9				0.0152	0.0480	U
82	27.39	360.9	321			0.109	0.498	U
83	27.55	360.9				0.0454	0.0461	U
84	27.74	360.9				0.00313	0.00478	U
85	28.07	395.3	84			0.0684	0.203	U
87	28.36	395.3				0.0158	0.0738	U
88	28.49	395.3	123			0.103	0.664	U
89	28.60	360.9	47			0.0201	0.0369	U
90	28.79	395.3				0.0685	0.314	U
91	29.05	360.9				0.0352	0.0352	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.0227	0.0867	U
93	29.72	394.3	103			0.103	0.591	U
94	30.01	394.3	77			0.0945	0.314	U
95	30.24	382.2	95			0.0880	0.146	U
96	30.53	429.8	32			0.00951	0.0122	U
98	30.68	395.3				0.0135	0.0140	U
99	31.04	429.8				0.0872	0.0872	U
100	31.27	395.3				0.128	0.128	U
101	31.54	429.8				0.219	0.219	U
102	31.68	395.3	137			0.152	1.13	U
103	31.96	395.3				0.0646	0.0775	U
104	32.25	395.3				0.0378	0.0443	U
105	32.58	429.8				0.0465	0.0794	U
106	33.68	395.3				0.0544	0.236	U
107	33.95	395.3				0.0215	0.0775	U
108	34.76	429.8				0.0327	0.0443	U
109	34.98	429.8				0.117	0.775	U
110	35.50	429.8				0.186	0.794	U
111	36.64	395.3				0.0233	0.0233	U
112	38.10	429.8				0.0371	0.102	U
113	38.59	464.2				0.0443	0.0912	U
114	39.49	464.2				0.0156	0.0343	U
115	40.84	429.8				0.0978	0.332	U
116	41.67	429.8				0.0847	0.0847	U
117	46.57	464.2				0.0387	0.125	U
118	52.30	498.6				0.0127	0.0127	U

Total Concentration = 226 ng/L

11.3

39.5

Total Nanomoles = 1.004

Average Molecular Weight = 224.9

Number of Calibrated Peaks Found = 66

Internal Standard Retention Time = 45.09 minutes

Internal Standard Peak Area = 192657.2

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 06:58:18  
 Lab Sample ID: AM17389  
 LRF ID: 09090294-01  
 Lab File ID: GC24-176-8

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2553	2	20.741	24.719
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2934	2-2; 26	50.109	50.512
6	14.05	2:1	007 009	0.3116	24; 25	0.138	0.140
7	14.36	2:1	006	0.3185	2-3	0.340	0.342
8	14.55	2:1	005 008	0.3227	23; 2-4	0.935	0.942
9	15.11	2:0	014		35	-	-
10	15.17	3:3	019	0.3364	26-2	8.450	7.380
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018	0.3553	4-4; 25-2	1.054	0.952
15	16.10	3:2	017	0.3571	24-2	1.832	1.600
16	16.40	3:2	024 027	0.3637	236; 26-3	2.781	2.429
17	16.68	3:2	016 032	0.3699	23-2; 26-4	1.746	1.525
19	17.10	3:1 4:4	023 034 054	0.3792	235; 35-2; 26-26	0.280	0.235
20	17.29	3:1	029		245	-	-
21	17.41	3:1	026	0.3861	25-3	0.664	0.580
22	17.49	3:1	025	0.3879	24-3	0.331	0.289
23	17.69	3:1	031	0.3923	25-4	1.102	0.963
24	17.74	3:1 4:3	028 050	0.3934	24-4; 246-2	0.501	0.438
25	18.11	3:1 4:3	020 021 033 053	0.4016	23-3; 234; 34-2; 25-26	1.074	0.931
26	18.31	3:1 4:3	022 051	0.4061	23-4; 24-26	0.418	0.363
27	18.53	4:3	045	0.4110	236-2	0.309	0.238
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4172	23-26	0.125	0.096
30	18.96	3:0	039		35-4	-	-
31	19.10	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	1.602	1.234
32	19.27	4:2	043 049	0.4274	235-2; 24-25	0.730	0.562
33	19.39	4:2	038 047	0.4300	345; 24-24	0.571	0.439
34	19.42	4:2	048 075	0.4307	245-2; 246-4	0.218	0.168
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.83	5:4 4:2	104 044	0.4398	246-26; 23-25	0.262	0.202
38	19.96	3:0 4:2	037 042 059	0.4427	34-4; 23-24; 236-3	0.528	0.436

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.31	4:2	<b>041 064 071 072</b>	0.4504	234-2; 236-4; 26-34; 25-35	0.505	0.389
41	20.47	5:4	<b>068 096</b>	0.4540	24-35; 236-26	0.082	0.056
42	20.57	4:2	<b>040</b>	0.4562	23-23	0.088	0.068
43	20.81	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.00	4:1 5:3	<b>058 067 100</b>	0.4657	23-35; 245-3; 246-24	0.027	0.020
45	21.14	4:1	<b>063</b>	0.4688	235-4	0.049	0.038
46	21.32	4:1 5:3	<b>074 094 061</b>	0.4728	245-4; 235-26; 2345	0.130	0.100
47	21.45	4:1	<b>070</b>	0.4757	25-34	0.126	0.097
48	21.61	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4793	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.561	0.430
49	21.86	4:1 5:3	<b>055 091 121</b>	0.4848	234-3; 236-24; 246-35	0.114	0.079
50	22.17	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.41	5:3 6:4	<b>084 092 155</b>	0.4970	236-23; 235-25; 246-246	0.376	0.259
52	22.51	5:3	<b>089</b>		234-26	-	-
53	22.65	5:2	<b>090 101</b>	0.5023	235-24; 245-25	0.116	0.080
54	22.84	5:2	<b>079 099 113</b>	0.5065	34-35; 245-24; 236-35	0.097	0.067
55	23.13	5:2 6:4	<b>119 150</b>	0.5130	246-34; 236-246	0.005	0.004
56	23.22	5:2	<b>078 083 112 108</b>	0.5150	345-3; 235-23; 2356-3; 2346-3	0.045	0.031
57	23.44	5:2 6:4	<b>097 152 086</b>	0.5198	245-23; 2356-26; 2345-2	0.111	0.077
58	23.61	5:2	<b>081 087 117 125 115 145</b>	0.5236	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.125	0.086
59	23.75	5:2	<b>116 085 111</b>	0.5267	23456; 234-24; 235-35	0.056	0.039
60	23.87	6:4	<b>120 136</b>	0.5294	245-35; 236-236	0.047	0.029
61	24.01	5:2	<b>077 110 148</b>	0.5325	34-34; 236-34; 235-246	0.246	0.170
62	24.29	6:3	<b>154</b>		245-246	-	-
63	24.35	5:2	<b>082</b>	0.5400	234-23	0.091	0.063
64	24.67	6:3	<b>151</b>		2356-25	-	-
65	24.82	5:1 6:3	<b>124 135</b>	0.5505	345-25; 235-236	0.024	0.016
66	24.87	6:3	<b>144</b>		2346-25	-	-
67	24.94	5:1 6:3	<b>107 109 147</b>	0.5531	234-35; 235-34; 2356-24	0.031	0.021
68	25.07	5:1	<b>123</b>		345-24	-	-
69	25.14	5:1 6:3	<b>106 118 139 149</b>	0.5576	2345-3; 245-34; 2346-24; 236-245	0.043	0.029
70	25.24	6:3	<b>140</b>		234-246	-	-
71	25.51	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	<b>105 132 161</b>	0.5788	234-34; 234-236; 2346-35	0.063	0.041
75	26.25	6:2	<b>153</b>		245-245	-	-
76	26.37	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	<b>141</b>		2345-25	-	-
78	26.79	7:4	<b>179</b>		2356-236	-	-
79	27.02	6:2	<b>137</b>		2345-24	-	-
80	27.16	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.39	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.07	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.36	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	28.49	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	28.60	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	28.79	7:3	<b>183</b>		2346-245	-	-
91	29.05	6:1	<b>167</b>		245-345	-	-
92	29.37	7:3	<b>185</b>		23456-25	-	-
93	29.72	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.01	7:3	<b>177</b>		2356-234	-	-
95	30.24	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	30.53	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	30.68	7:3	<b>173</b>		23456-23	-	-
99	31.04	8:4	<b>201</b>		2346-2356	-	-
100	31.27	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	31.54	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	31.68	7:2	<b>180</b>		2345-245	-	-
103	31.96	7:2	<b>193</b>		2356-345	-	-
104	32.25	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	32.58	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	33.68	7:2	<b>170</b>		2345-234	-	-
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196</b> 203		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 226 ng/L

Total Nanomoles = 1.004

Average Molecular Weight = 224.9

Number of Calibrated Peaks Found = 66

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> ,102,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> ,110,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

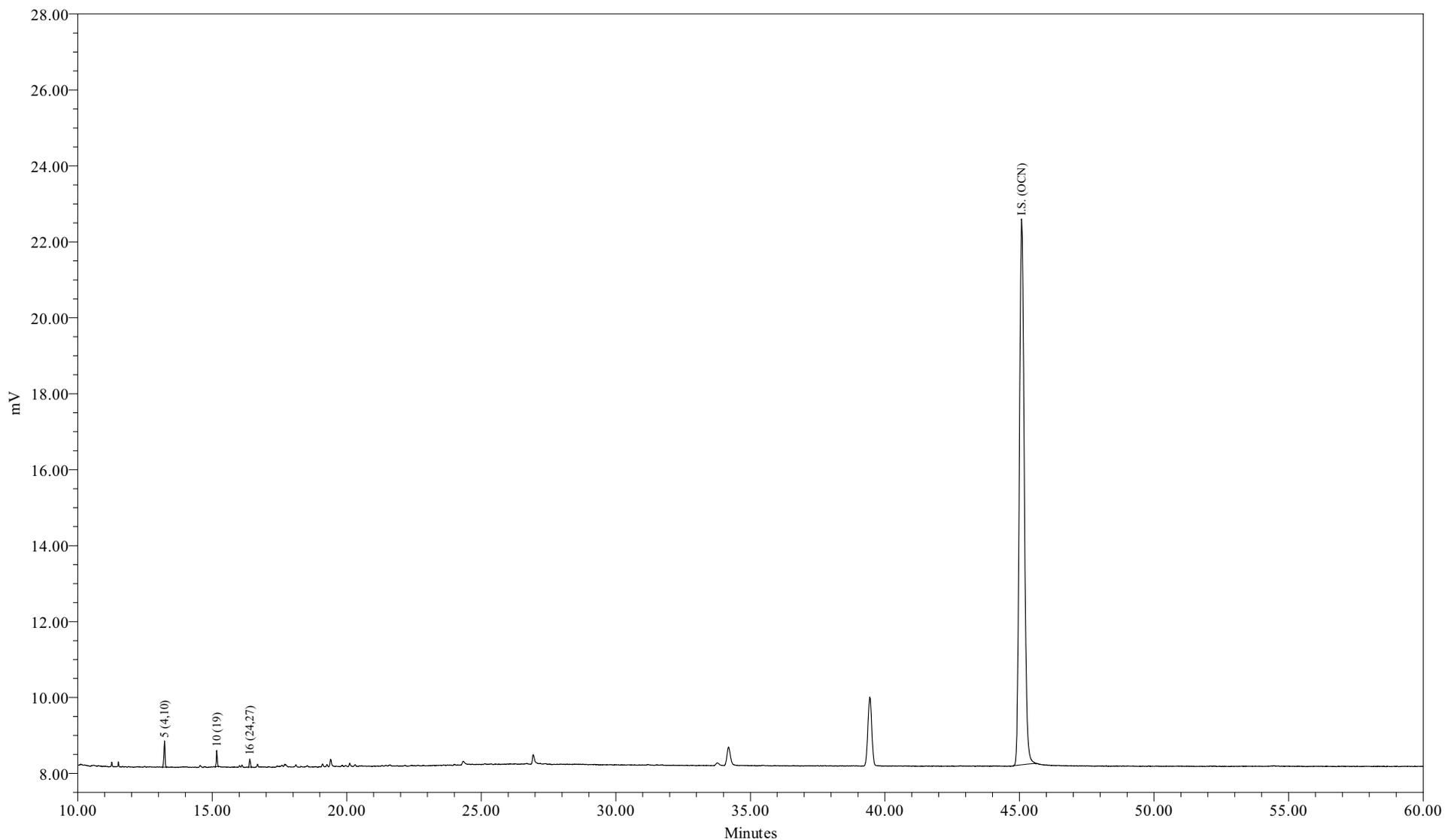
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: AM17389DL1  
Sample ID: WFF-LOC5-090923-BT001  
Date Acquired: 9/24/2009 8:03:49 AM EDT

Sample Amount (L) : 0.9900  
Dilution: 50  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-176-9

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 08:03:49  
 Lab Sample ID: AM17389DL1  
 LRF ID: 09090294-01DL1  
 Lab File ID: GC24-176-9

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 139 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	81.69	83.74
Tri	18.31	16.26
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.12

Meta + Para Cl / biphenyl Residue = 0.04

Total Cl / biphenyl Residue = 2.16

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 08:03:49  
 Lab Sample ID: AM17389DL1  
 LRF ID: 09090294-01DL1  
 Lab File ID: GC24-176-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				5.34	22.1	U
3	12.52	188.7				66.9	10100	U
4	12.63	188.7				3.58	12.9	U
5	13.23	223.1	1927	113	507	1.35	6.28	U
6	14.06	223.1				0.728	2.21	U
7	14.37	223.1				1.60	3.51	U
8	14.55	223.1				5.48	25.8	U
9	15.11	223.1				2.97	253	U
10	15.17	257.5	1060	19.1	74.1	0.610	1.03	U
11	15.64	257.5				2.00	253	U
12	15.72	223.1				3.10	253	U
13	15.92	223.1				0.564	0.985	U
14	16.02	249.0				1.29	6.83	U
15	16.11	257.5				1.45	6.83	U
16	16.40	257.5	579	6.28	24.4	0.378	0.480	B
17	16.66	257.5				1.68	7.20	U
19	17.11	267.9				1.30	253	U
20	17.29	257.5				0.109	0.196	U
21	17.42	257.5				0.612	1.33	U
22	17.50	257.5				0.430	0.591	U
23	17.70	257.5				4.92	7.61	U
24	17.75	257.5				2.13	9.74	U
25	18.09	259.5				1.06	7.33	U
26	18.32	258.7				1.21	5.35	U
27	18.54	292.0				0.371	1.64	U
28	18.69	257.5				3.79	253	U
29	18.81	292.0				1.28	1.28	U
30	18.96	257.5				1.21	253	U
31	19.11	292.0				2.06	8.80	U
32	19.28	292.0				0.988	4.25	U
33	19.39	292.0				0.662	1.85	U
34	19.46	292.0				0.584	1.85	U
35	19.59	292.0				2.07	253	U
36	19.69	257.5				1.46	253	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				1.62	7.94	U
38	19.97	272.4				1.16	4.80	U
39	20.32	292.0				1.23	7.57	U
41	20.47	326.4				1.16	253	U
42	20.58	292.0				0.978	1.74	U
43	20.83	298.9				1.54	253	U
44	21.01	298.9				0.227	0.406	U
45	21.16	292.0				0.302	0.388	U
46	21.33	292.0				0.829	3.51	U
47	21.46	292.0				1.65	6.28	U
48	21.57	293.5				2.46	13.3	U
49	21.86	324.7				0.380	0.941	U
50	22.17	292.0				3.63	6.46	U
51	22.40	326.4				0.897	3.32	U
52	22.51	326.4				0.388	0.388	U
53	22.66	326.4				0.698	3.32	U
54	22.86	326.4				1.02	1.37	U
55	23.13	326.4				0.0650	0.103	U
56	23.23	326.4				0.654	0.654	U
57	23.44	326.4				0.439	1.03	U
58	23.61	326.4				0.850	2.14	U
59	23.77	326.4				0.489	1.29	U
60	23.88	360.9				0.780	1.38	U
61	24.02	326.4				0.675	3.93	U
62	24.29	360.9				1.14	253	U
63	24.38	326.4				0.203	0.812	U
64	24.68	360.9				0.524	3.14	U
65	24.81	350.5				0.151	0.535	U
66	24.88	360.9				0.546	1.11	U
67	24.95	336.8				0.352	0.480	U
68	25.04	326.4				1.26	253	U
69	25.12	337.5				0.947	7.38	U
70	25.24	360.9				0.837	253	U
71	25.51	347.8				0.352	0.373	U
72	25.71	336.8				0.0645	0.107	U
73	25.98	360.9				0.323	0.720	U
74	26.10	347.8				0.728	2.50	U
75	26.25	360.9				1.10	5.44	U
76	26.37	360.9				1.08	253	U
77	26.76	360.9				0.644	3.14	U
78	26.81	395.3				0.475	2.69	U
79	27.02	360.9				0.506	0.506	U
80	27.16	360.9				0.152	0.480	U
82	27.38	360.9				1.09	4.98	U
83	27.55	360.9				0.454	0.461	U
84	27.74	360.9				0.0313	0.0478	U
85	28.07	395.3				0.684	2.03	U
87	28.36	395.3				0.158	0.738	U
88	28.50	395.3				1.03	6.64	U
89	28.62	360.9				0.201	0.369	U
90	28.79	395.3				0.685	3.14	U
91	29.05	360.9				0.352	0.352	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.227	0.867	U
93	29.72	394.3				1.03	5.91	U
94	29.98	394.3				0.945	3.14	U
95	30.26	382.2				0.880	1.46	U
96	30.51	429.8				0.0951	0.122	U
98	30.68	395.3				0.135	0.140	U
99	31.04	429.8				0.872	0.872	U
100	31.27	395.3				1.28	1.28	U
101	31.54	429.8				2.19	2.19	U
102	31.72	395.3				1.52	11.3	U
103	31.96	395.3				0.646	0.775	U
104	32.25	395.3				0.378	0.443	U
105	32.58	429.8				0.465	0.794	U
106	33.68	395.3				0.544	2.36	U
107	33.95	395.3				0.215	0.775	U
108	34.76	429.8				0.327	0.443	U
109	34.98	429.8				1.17	7.75	U
110	35.50	429.8				1.86	7.94	U
111	36.64	395.3				0.233	0.233	U
112	38.10	429.8				0.371	1.02	U
113	38.59	464.2				0.443	0.912	U
114	39.49	464.2				0.156	0.343	U
115	40.84	429.8				0.978	3.32	U
116	41.67	429.8				0.847	0.847	U
117	46.57	464.2				0.387	1.25	U
118	52.30	498.6				0.127	0.127	U

Total Concentration = 139 ng/L

92.0

325

J

Total Nanomoles = 0.606

Average Molecular Weight = 228.7

Number of Calibrated Peaks Found = 3

Internal Standard Retention Time = 45.08 minutes

Internal Standard Peak Area = 183049.6

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 08:03:49  
 Lab Sample ID: AM17389DL1  
 LRF ID: 09090294-01DL1  
 Lab File ID: GC24-176-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	2		-	-
3	12.52	1:0	002	3		-	-
4	12.63	1:0	003	4		-	-
5	13.23	2:2	004 010	0.2935	2-2; 26	81.691	83.739
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.11	2:0	014		35	-	-
10	15.17	3:3	019	0.3365	26-2	13.775	12.234
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.40	3:2	024 027	0.3638	236; 26-3	4.535	4.027
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.70	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.54	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046		23-26	-	-
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.32	4:2	<b>041 064 071 072</b>		234-2; 236-4; 26-34; 25-35	-	-
41	20.47	5:4	<b>068 096</b>		24-35; 236-26	-	-
42	20.58	4:2	<b>040</b>		23-23	-	-
43	20.83	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.01	4:1 5:3	<b>058 067 100</b>		23-35; 245-3; 246-24	-	-
45	21.16	4:1	<b>063</b>		235-4	-	-
46	21.33	4:1 5:3	<b>074 094 061</b>		245-4; 235-26; 2345	-	-
47	21.46	4:1	<b>070</b>		25-34	-	-
48	21.57	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.86	4:1 5:3	<b>055 091 121</b>		234-3; 236-24; 246-35	-	-
50	22.17	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.40	5:3 6:4	<b>084 092 155</b>		236-23; 235-25; 246-246	-	-
52	22.51	5:3	<b>089</b>		234-26	-	-
53	22.66	5:2	<b>090 101</b>		235-24; 245-25	-	-
54	22.86	5:2	<b>079 099 113</b>		34-35; 245-24; 236-35	-	-
55	23.13	5:2 6:4	<b>119 150</b>		246-34; 236-246	-	-
56	23.23	5:2	<b>078 083 112 108</b>		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.44	5:2 6:4	<b>097 152 086</b>		245-23; 2356-26; 2345-2	-	-
58	23.61	5:2	<b>081 087 117 125 115 145</b>		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	<b>116 085 111</b>		23456; 234-24; 235-35	-	-
60	23.88	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.02	5:2	<b>077 110 148</b>		34-34; 236-34; 235-246	-	-
62	24.29	6:3	<b>154</b>		245-246	-	-
63	24.38	5:2	<b>082</b>		234-23	-	-
64	24.68	6:3	<b>151</b>		2356-25	-	-
65	24.81	5:1 6:3	<b>124 135</b>		345-25; 235-236	-	-
66	24.88	6:3	<b>144</b>		2346-25	-	-
67	24.95	5:1 6:3	<b>107 109 147</b>		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	<b>123</b>		345-24	-	-
69	25.12	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	<b>140</b>		234-246	-	-
71	25.51	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	<b>105 132 161</b>		234-34; 234-236; 2346-35	-	-
75	26.25	6:2	<b>153</b>		245-245	-	-
76	26.37	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	<b>141</b>		2345-25	-	-
78	26.81	7:4	<b>179</b>		2356-236	-	-
79	27.02	6:2	<b>137</b>		2345-24	-	-
80	27.16	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.38	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.07	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.36	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	28.50	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	28.62	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	28.79	7:3	<b>183</b>		2346-245	-	-
91	29.05	6:1	<b>167</b>		245-345	-	-
92	29.37	7:3	<b>185</b>		23456-25	-	-
93	29.72	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	29.98	7:3	<b>177</b>		2356-234	-	-
95	30.26	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	30.51	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	30.68	7:3	<b>173</b>		23456-23	-	-
99	31.04	8:4	<b>201</b>		2346-2356	-	-
100	31.27	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	31.54	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	31.72	7:2	<b>180</b>		2345-245	-	-
103	31.96	7:2	<b>193</b>		2356-345	-	-
104	32.25	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	32.58	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	33.68	7:2	<b>170</b>		2345-234	-	-
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196</b> 203		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 139 ng/L

Total Nanomoles = 0.606

Average Molecular Weight = 228.7

Number of Calibrated Peaks Found = 3

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> ,102,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> ,110,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

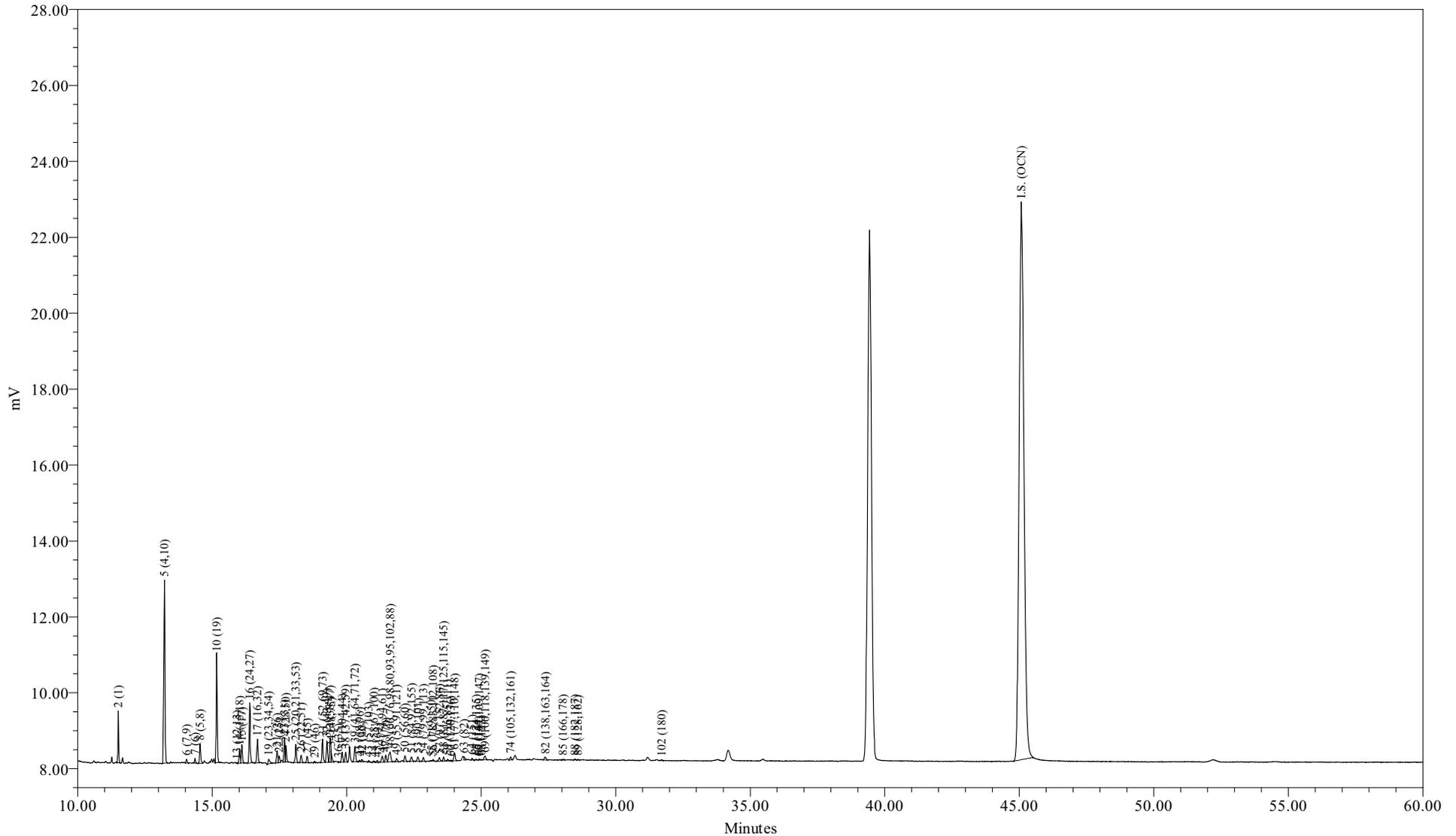
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09090294
ELAP ID No:	11078	LRF ID:	09090294-02
Matrix:	Water	Client ID:	WFF-SCHU-090923-BT001
Sample Wt(Dry)/Vol:	980 mL	Lab Sample ID:	AM17390
% Moisture:	100	Lab File ID:	GC24-176-10
Extraction:	Solid Phase Extraction - 1L	Date Received:	09/23/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	09/23/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	09/24/2009 09:09
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm		

OCN (I.S.) Peak Area: 182951

Percent Recovery (50 - 150 %): 107

SAMPLE TOTAL PCB CONCENTRATION: 232 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM17390  
Sample ID: WFF-SCHU-090923-BT001  
Date Acquired: 9/24/2009 9:09:36 AM EDT

Sample Amount (L) : 0.9800  
Dilution: 5  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-176-10

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 09:09:36  
 Lab Sample ID: AM17390  
 LRF ID: 09090294-02  
 Lab File ID: GC24-176-10

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 232 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	25.18	29.67
Di	49.45	49.26
Tri	18.31	15.80
Tetra	5.43	4.16
Penta	1.54	1.05
Hexa	0.09	0.06
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	58.4049	93.9	94.5
A1242	23+24/31+28	3.2434	5.21	5.25
A1254SED	61/100	0.5721	0.919	
A1254BIO	69+75+82/149+153+138	0.1480		0.240
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.72

Meta + Para Cl / biphenyl Residue = 0.26

Total Cl / biphenyl Residue = 1.98

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 09:09:36  
 Lab Sample ID: AM17390  
 LRF ID: 09090294-02  
 Lab File ID: GC24-176-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7	2534	58.4	310	0.539	2.24	
3	12.52	188.7				6.76	1020	U
4	12.63	188.7				0.362	1.31	U
5	13.23	223.1	1879	111	496	1.37	6.34	
6	14.05	223.1	258	0.292	1.31	0.0735	0.224	
7	14.36	223.1	286	0.837	3.75	0.161	0.354	
8	14.55	223.1	1397	2.42	10.8	0.553	2.61	J
9	15.11	223.1				0.300	25.5	U
10	15.17	257.5	1006	18.2	70.5	0.616	1.04	
11	15.64	257.5				0.203	25.5	U
12	15.72	223.1				0.313	25.5	U
13	15.92	223.1	17			0.0570	0.0995	U
14	16.02	249.0	1002	2.19	8.78	0.131	0.690	
15	16.10	257.5	1363	3.86	15.0	0.146	0.690	
16	16.40	257.5	512	5.56	21.6	0.382	0.485	B
17	16.68	257.5	1832	3.59	14.0	0.169	0.727	
19	17.10	267.9	560	0.933	3.48	0.131	25.5	J
20	17.29	257.5				0.0110	0.0198	U
21	17.41	257.5	965	1.53	5.95	0.0618	0.134	B
22	17.49	257.5	572	0.646	2.51	0.0434	0.0597	B
23	17.69	257.5	1837	2.26	8.79	0.497	0.769	
24	17.74	257.5	1213	0.980	3.81	0.215	0.984	J
25	18.11	259.5	1536	2.16	8.31	0.107	0.741	
26	18.31	258.7	655	0.914	3.53	0.122	0.541	
27	18.53	292.0	505	0.619	2.12	0.0374	0.166	B
28	18.69	257.5				0.383	25.5	U
29	18.81	292.0	108	0.171	0.586	0.129	0.129	
30	18.96	257.5				0.123	25.5	U
31	19.10	292.0	1989	3.49	12.0	0.208	0.889	
32	19.27	292.0	1805	1.66	5.67	0.0998	0.429	
33	19.39	292.0	2014	1.27	4.34	0.0669	0.186	
34	19.42	292.0	591	0.507	1.74	0.0590	0.186	
35	19.59	292.0				0.209	25.5	U
36	19.69	257.5	9			0.147	25.5	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.83	292.0	826	0.536	1.84	0.164	0.802	J
38	19.96	272.4	848	1.17	4.29	0.117	0.485	
39	20.31	292.0	1430	1.14	3.91	0.124	0.765	
41	20.49	326.4	131	0.201	0.615	0.117	25.5	J
42	20.57	292.0	166	0.190	0.650	0.0988	0.175	
43	20.81	298.9	111			0.156	25.5	U
44	21.02	298.9	180	0.148	0.496	0.0230	0.0410	
45	21.14	292.0	179	0.150	0.515	0.0305	0.0392	
46	21.32	292.0	633	0.330	1.13	0.0838	0.354	J
47	21.45	292.0	632	0.298	1.02	0.167	0.634	J
48	21.62	293.5	1418	1.24	4.21	0.248	1.34	J
49	21.85	324.7	269	0.281	0.866	0.0384	0.0951	
50	22.16	292.0	553			0.367	0.653	U
51	22.41	326.4	499	0.896	2.74	0.0906	0.336	
52	22.51	326.4				0.0392	0.0392	U
53	22.65	326.4	446	0.290	0.888	0.0705	0.336	J
54	22.85	326.4	350	0.194	0.595	0.103	0.138	
55	23.16	326.4	38	0.0182	0.0557	0.00657	0.0105	B
56	23.21	326.4	137	0.146	0.448	0.0660	0.0660	
57	23.45	326.4	390	0.272	0.833	0.0444	0.104	B
58	23.60	326.4	370	0.279	0.856	0.0859	0.216	
59	23.75	326.4	182	0.125	0.382	0.0494	0.131	J
60	23.87	360.9	83	0.102	0.282	0.0787	0.140	J
61	24.01	326.4	743	0.572	1.75	0.0682	0.397	
62	24.29	360.9				0.115	25.5	U
63	24.36	326.4	224	0.126	0.386	0.0205	0.0820	
64	24.66	360.9	128			0.0529	0.317	U
65	24.81	350.5	65	0.0360	0.103	0.0152	0.0541	J
66	24.90	360.9	18			0.0552	0.112	U
67	24.92	336.8	54	0.0488	0.145	0.0356	0.0485	
68	25.01	326.4	16			0.128	25.5	U
69	25.15	337.5	440			0.0957	0.746	U
70	25.24	360.9				0.0846	25.5	U
71	25.51	347.8				0.0355	0.0377	U
72	25.71	336.8				0.00651	0.0109	U
73	25.98	360.9				0.0327	0.0727	U
74	26.10	347.8	267	0.126	0.362	0.0736	0.253	J
75	26.25	360.9				0.111	0.549	U
76	26.37	360.9				0.109	25.5	U
77	26.76	360.9				0.0650	0.317	U
78	26.81	395.3				0.0480	0.272	U
79	27.02	360.9				0.0511	0.0511	U
80	27.16	360.9				0.0154	0.0485	U
82	27.39	360.9	378			0.110	0.503	U
83	27.55	360.9				0.0459	0.0466	U
84	27.74	360.9				0.00316	0.00483	U
85	28.04	395.3	100			0.0691	0.205	U
87	28.36	395.3				0.0160	0.0746	U
88	28.48	395.3	90			0.104	0.671	U
89	28.60	360.9	55			0.0203	0.0373	U
90	28.79	395.3				0.0692	0.317	U
91	29.05	360.9				0.0355	0.0355	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.0229	0.0876	U
93	29.72	394.3				0.104	0.597	U
94	29.98	394.3				0.0955	0.317	U
95	30.26	382.2				0.0889	0.147	U
96	30.51	429.8				0.00961	0.0123	U
98	30.68	395.3				0.0136	0.0142	U
99	31.04	429.8				0.0881	0.0881	U
100	31.27	395.3				0.129	0.129	U
101	31.54	429.8				0.222	0.222	U
102	31.71	395.3	80			0.153	1.14	U
103	31.96	395.3				0.0653	0.0783	U
104	32.25	395.3				0.0382	0.0447	U
105	32.58	429.8				0.0470	0.0802	U
106	33.68	395.3				0.0549	0.239	U
107	33.95	395.3				0.0217	0.0783	U
108	34.76	429.8				0.0330	0.0447	U
109	34.98	429.8				0.118	0.783	U
110	35.50	429.8				0.188	0.802	U
111	36.64	395.3				0.0235	0.0235	U
112	38.10	429.8				0.0375	0.103	U
113	38.59	464.2				0.0447	0.0921	U
114	39.49	464.2				0.0157	0.0347	U
115	40.84	429.8				0.0988	0.336	U
116	41.67	429.8				0.0855	0.0855	U
117	46.57	464.2				0.0391	0.127	U
118	52.30	498.6				0.0128	0.0128	U

Total Concentration = 232 ng/L

11.4

39.9

Total Nanomoles = 1.043

Average Molecular Weight = 222.4

Number of Calibrated Peaks Found = 61

Internal Standard Retention Time = 45.08 minutes

Internal Standard Peak Area = 182951.5

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 09:09:36  
 Lab Sample ID: AM17390  
 LRF ID: 09090294-02  
 Lab File ID: GC24-176-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2553	2	25.178	29.669
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.23	2:2	004 010	0.2935	2-2; 26	47.688	47.530
6	14.05	2:1	007 009	0.3117	24; 25	0.126	0.125
7	14.36	2:1	006	0.3185	2-3	0.361	0.359
8	14.55	2:1	005 008	0.3228	23; 2-4	1.043	1.039
9	15.11	2:0	014		35	-	-
10	15.17	3:3	019	0.3365	26-2	7.827	6.759
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018	0.3554	4-4; 25-2	0.943	0.842
15	16.10	3:2	017	0.3571	24-2	1.664	1.437
16	16.40	3:2	024 027	0.3638	236; 26-3	2.395	2.069
17	16.68	3:2	016 032	0.3700	23-2; 26-4	1.549	1.338
19	17.10	3:1 4:4	023 034 054	0.3793	235; 35-2; 26-26	0.402	0.334
20	17.29	3:1	029		245	-	-
21	17.41	3:1	026	0.3862	25-3	0.660	0.570
22	17.49	3:1	025	0.3880	24-3	0.278	0.240
23	17.69	3:1	031	0.3924	25-4	0.976	0.843
24	17.74	3:1 4:3	028 050	0.3935	24-4; 246-2	0.422	0.365
25	18.11	3:1 4:3	020 021 033 053	0.4017	23-3; 234; 34-2; 25-26	0.929	0.796
26	18.31	3:1 4:3	022 051	0.4062	23-4; 24-26	0.394	0.339
27	18.53	4:3	045	0.4110	236-2	0.267	0.203
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4173	23-26	0.074	0.056
30	18.96	3:0	039		35-4	-	-
31	19.10	4:2	052 069 073	0.4237	25-25; 246-3; 26-35	1.505	1.146
32	19.27	4:2	043 049	0.4275	235-2; 24-25	0.714	0.544
33	19.39	4:2	038 047	0.4301	345; 24-24	0.546	0.416
34	19.42	4:2	048 075	0.4308	245-2; 246-4	0.218	0.166
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.83	5:4 4:2	104 044	0.4399	246-26; 23-25	0.231	0.176
38	19.96	3:0 4:2	037 042 059	0.4428	34-4; 23-24; 236-3	0.503	0.411

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.31	4:2	<b>041 064 071 072</b>	0.4505	234-2; 236-4; 26-34; 25-35	0.492	0.375
41	20.49	5:4	<b>068 096</b>	0.4545	24-35; 236-26	0.087	0.059
42	20.57	4:2	<b>040</b>	0.4563	23-23	0.082	0.062
43	20.81	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.02	4:1 5:3	<b>058 067 100</b>	0.4663	23-35; 245-3; 246-24	0.064	0.048
45	21.14	4:1	<b>063</b>	0.4689	235-4	0.065	0.049
46	21.32	4:1 5:3	<b>074 094 061</b>	0.4729	245-4; 235-26; 2345	0.142	0.108
47	21.45	4:1	<b>070</b>	0.4758	25-34	0.128	0.098
48	21.62	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4796	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.532	0.403
49	21.85	4:1 5:3	<b>055 091 121</b>	0.4847	234-3; 236-24; 246-35	0.121	0.083
50	22.16	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.41	5:3 6:4	<b>084 092 155</b>	0.4971	236-23; 235-25; 246-246	0.386	0.263
52	22.51	5:3	<b>089</b>		234-26	-	-
53	22.65	5:2	<b>090 101</b>	0.5024	235-24; 245-25	0.125	0.085
54	22.85	5:2	<b>079 099 113</b>	0.5069	34-35; 245-24; 236-35	0.084	0.057
55	23.16	5:2 6:4	<b>119 150</b>	0.5138	246-34; 236-246	0.008	0.005
56	23.21	5:2	<b>078 083 112 108</b>	0.5149	345-3; 235-23; 2356-3; 2346-3	0.063	0.043
57	23.45	5:2 6:4	<b>097 152 086</b>	0.5202	245-23; 2356-26; 2345-2	0.117	0.080
58	23.60	5:2	<b>081 087 117 125 115 145</b>	0.5235	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.120	0.082
59	23.75	5:2	<b>116 085 111</b>	0.5268	23456; 234-24; 235-35	0.054	0.037
60	23.87	6:4	<b>120 136</b>	0.5295	245-35; 236-236	0.044	0.027
61	24.01	5:2	<b>077 110 148</b>	0.5326	34-34; 236-34; 235-246	0.247	0.168
62	24.29	6:3	<b>154</b>		245-246	-	-
63	24.36	5:2	<b>082</b>	0.5404	234-23	0.054	0.037
64	24.66	6:3	<b>151</b>		2356-25	-	-
65	24.81	5:1 6:3	<b>124 135</b>	0.5504	345-25; 235-236	0.016	0.010
66	24.90	6:3	<b>144</b>		2346-25	-	-
67	24.92	5:1 6:3	<b>107 109 147</b>	0.5528	234-35; 235-34; 2356-24	0.021	0.014
68	25.01	5:1	<b>123</b>		345-24	-	-
69	25.15	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	<b>140</b>		234-246	-	-
71	25.51	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	<b>105 132 161</b>	0.5790	234-34; 234-236; 2346-35	0.054	0.035
75	26.25	6:2	<b>153</b>		245-245	-	-
76	26.37	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	<b>141</b>		2345-25	-	-
78	26.81	7:4	<b>179</b>		2356-236	-	-
79	27.02	6:2	<b>137</b>		2345-24	-	-
80	27.16	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.39	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.04	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.36	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	28.48	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	28.60	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	28.79	7:3	<b>183</b>		2346-245	-	-
91	29.05	6:1	<b>167</b>		245-345	-	-
92	29.37	7:3	<b>185</b>		23456-25	-	-
93	29.72	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	29.98	7:3	<b>177</b>		2356-234	-	-
95	30.26	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	30.51	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	30.68	7:3	<b>173</b>		23456-23	-	-
99	31.04	8:4	<b>201</b>		2346-2356	-	-
100	31.27	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	31.54	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	31.71	7:2	<b>180</b>		2345-245	-	-
103	31.96	7:2	<b>193</b>		2356-345	-	-
104	32.25	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	32.58	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	33.68	7:2	<b>170</b>		2345-234	-	-
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196</b> 203		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 232 ng/L

Total Nanomoles = 1.043

Average Molecular Weight = 222.4

Number of Calibrated Peaks Found = 61

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> ,102,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> ,110,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

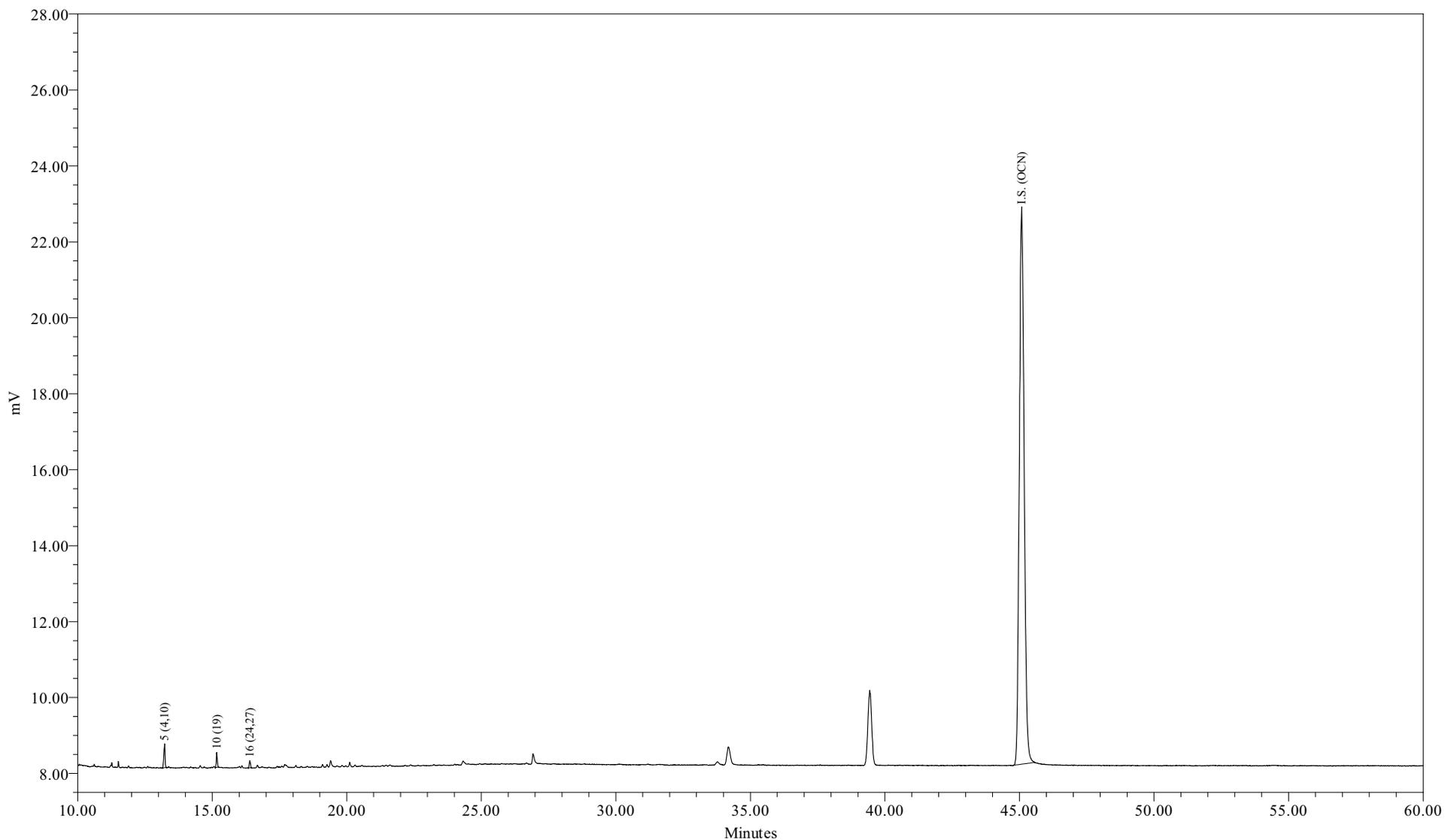
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: AM17390DL1  
Sample ID: WFF-SCHU-090923-BT001  
Date Acquired: 9/24/2009 10:15:07 AM EDT

Sample Amount (L) : 0.9800  
Dilution: 50  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-176-11

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 10:15:07  
 Lab Sample ID: AM17390DL1  
 LRF ID: 09090294-02DL1  
 Lab File ID: GC24-176-11

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 134 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	82.35	84.34
Tri	17.65	15.66
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.12

Meta + Para Cl / biphenyl Residue = 0.04

Total Cl / biphenyl Residue = 2.16

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 10:15:07  
 Lab Sample ID: AM17390DL1  
 LRF ID: 09090294-02DL1  
 Lab File ID: GC24-176-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				5.39	22.4	U
3	12.52	188.7				67.6	10200	U
4	12.63	188.7				3.62	13.1	U
5	13.23	223.1	1879	111	496	1.37	6.34	U
6	14.06	223.1				0.735	2.24	U
7	14.37	223.1				1.61	3.54	U
8	14.55	223.1				5.53	26.1	U
9	15.11	223.1				3.00	255	U
10	15.17	257.5	1006	18.2	70.5	0.616	1.04	U
11	15.64	257.5				2.03	255	U
12	15.72	223.1				3.13	255	U
13	15.92	223.1				0.570	0.995	U
14	16.02	249.0				1.31	6.90	U
15	16.11	257.5				1.46	6.90	U
16	16.40	257.5	512	5.56	21.6	0.382	0.485	B
17	16.66	257.5				1.69	7.27	U
19	17.11	267.9				1.31	255	U
20	17.29	257.5				0.110	0.198	U
21	17.42	257.5				0.618	1.34	U
22	17.50	257.5				0.434	0.597	U
23	17.70	257.5				4.97	7.69	U
24	17.75	257.5				2.15	9.84	U
25	18.09	259.5				1.07	7.41	U
26	18.32	258.7				1.22	5.41	U
27	18.54	292.0				0.374	1.66	U
28	18.69	257.5				3.83	255	U
29	18.81	292.0				1.29	1.29	U
30	18.96	257.5				1.23	255	U
31	19.11	292.0				2.08	8.89	U
32	19.28	292.0				0.998	4.29	U
33	19.39	292.0				0.669	1.86	U
34	19.46	292.0				0.590	1.86	U
35	19.59	292.0				2.09	255	U
36	19.69	257.5				1.47	255	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				1.64	8.02	U
38	19.97	272.4				1.17	4.85	U
39	20.32	292.0				1.24	7.65	U
41	20.47	326.4				1.17	255	U
42	20.58	292.0				0.988	1.75	U
43	20.83	298.9				1.56	255	U
44	21.01	298.9				0.230	0.410	U
45	21.16	292.0				0.305	0.392	U
46	21.33	292.0				0.838	3.54	U
47	21.46	292.0				1.67	6.34	U
48	21.57	293.5				2.48	13.4	U
49	21.86	324.7				0.384	0.951	U
50	22.17	292.0				3.67	6.53	U
51	22.40	326.4				0.906	3.36	U
52	22.51	326.4				0.392	0.392	U
53	22.66	326.4				0.705	3.36	U
54	22.86	326.4				1.03	1.38	U
55	23.13	326.4				0.0657	0.105	U
56	23.23	326.4				0.660	0.660	U
57	23.44	326.4				0.444	1.04	U
58	23.61	326.4				0.859	2.16	U
59	23.77	326.4				0.494	1.31	U
60	23.88	360.9				0.787	1.40	U
61	24.02	326.4				0.682	3.97	U
62	24.29	360.9				1.15	255	U
63	24.38	326.4				0.205	0.820	U
64	24.68	360.9				0.529	3.17	U
65	24.81	350.5				0.152	0.541	U
66	24.88	360.9				0.552	1.12	U
67	24.95	336.8				0.356	0.485	U
68	25.04	326.4				1.28	255	U
69	25.12	337.5				0.957	7.46	U
70	25.24	360.9				0.846	255	U
71	25.51	347.8				0.355	0.377	U
72	25.71	336.8				0.0651	0.109	U
73	25.98	360.9				0.327	0.727	U
74	26.10	347.8				0.736	2.53	U
75	26.25	360.9				1.11	5.49	U
76	26.37	360.9				1.09	255	U
77	26.76	360.9				0.650	3.17	U
78	26.81	395.3				0.480	2.72	U
79	27.02	360.9				0.511	0.511	U
80	27.16	360.9				0.154	0.485	U
82	27.38	360.9				1.10	5.03	U
83	27.55	360.9				0.459	0.466	U
84	27.74	360.9				0.0316	0.0483	U
85	28.07	395.3				0.691	2.05	U
87	28.36	395.3				0.160	0.746	U
88	28.50	395.3				1.04	6.71	U
89	28.62	360.9				0.203	0.373	U
90	28.79	395.3				0.692	3.17	U
91	29.05	360.9				0.355	0.355	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.229	0.876	U
93	29.72	394.3				1.04	5.97	U
94	29.98	394.3				0.955	3.17	U
95	30.26	382.2				0.889	1.47	U
96	30.51	429.8				0.0961	0.123	U
98	30.68	395.3				0.136	0.142	U
99	31.04	429.8				0.881	0.881	U
100	31.27	395.3				1.29	1.29	U
101	31.54	429.8				2.22	2.22	U
102	31.72	395.3				1.53	11.4	U
103	31.96	395.3				0.653	0.783	U
104	32.25	395.3				0.382	0.447	U
105	32.58	429.8				0.470	0.802	U
106	33.68	395.3				0.549	2.39	U
107	33.95	395.3				0.217	0.783	U
108	34.76	429.8				0.330	0.447	U
109	34.98	429.8				1.18	7.83	U
110	35.50	429.8				1.88	8.02	U
111	36.64	395.3				0.235	0.235	U
112	38.10	429.8				0.375	1.03	U
113	38.59	464.2				0.447	0.921	U
114	39.49	464.2				0.157	0.347	U
115	40.84	429.8				0.988	3.36	U
116	41.67	429.8				0.855	0.855	U
117	46.57	464.2				0.391	1.27	U
118	52.30	498.6				0.128	0.128	U

Total Concentration = 134 ng/L

92.9

328

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Total Nanomoles = 0.588

Average Molecular Weight = 228.5

Number of Calibrated Peaks Found = 3

Internal Standard Retention Time = 45.08 minutes

Internal Standard Peak Area = 184580.5

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 10:15:07  
 Lab Sample ID: AM17390DL1  
 LRF ID: 09090294-02DL1  
 Lab File ID: GC24-176-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	2		-	-
3	12.52	1:0	002	3		-	-
4	12.63	1:0	003	4		-	-
5	13.23	2:2	004 010	0.2935	2-2; 26	82.348	84.337
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.11	2:0	014		35	-	-
10	15.17	3:3	019	0.3365	26-2	13.515	11.993
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.40	3:2	024 027	0.3638	236; 26-3	4.137	3.671
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.70	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.54	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046		23-26	-	-
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.32	4:2	<b>041 064 071 072</b>		234-2; 236-4; 26-34; 25-35	-	-
41	20.47	5:4	<b>068 096</b>		24-35; 236-26	-	-
42	20.58	4:2	<b>040</b>		23-23	-	-
43	20.83	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.01	4:1 5:3	<b>058 067 100</b>		23-35; 245-3; 246-24	-	-
45	21.16	4:1	<b>063</b>		235-4	-	-
46	21.33	4:1 5:3	<b>074 094 061</b>		245-4; 235-26; 2345	-	-
47	21.46	4:1	<b>070</b>		25-34	-	-
48	21.57	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.86	4:1 5:3	<b>055 091 121</b>		234-3; 236-24; 246-35	-	-
50	22.17	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.40	5:3 6:4	<b>084 092 155</b>		236-23; 235-25; 246-246	-	-
52	22.51	5:3	<b>089</b>		234-26	-	-
53	22.66	5:2	<b>090 101</b>		235-24; 245-25	-	-
54	22.86	5:2	<b>079 099 113</b>		34-35; 245-24; 236-35	-	-
55	23.13	5:2 6:4	<b>119 150</b>		246-34; 236-246	-	-
56	23.23	5:2	<b>078 083 112 108</b>		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.44	5:2 6:4	<b>097 152 086</b>		245-23; 2356-26; 2345-2	-	-
58	23.61	5:2	<b>081 087 117 125 115 145</b>		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	<b>116 085 111</b>		23456; 234-24; 235-35	-	-
60	23.88	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.02	5:2	<b>077 110 148</b>		34-34; 236-34; 235-246	-	-
62	24.29	6:3	<b>154</b>		245-246	-	-
63	24.38	5:2	<b>082</b>		234-23	-	-
64	24.68	6:3	<b>151</b>		2356-25	-	-
65	24.81	5:1 6:3	<b>124 135</b>		345-25; 235-236	-	-
66	24.88	6:3	<b>144</b>		2346-25	-	-
67	24.95	5:1 6:3	<b>107 109 147</b>		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	<b>123</b>		345-24	-	-
69	25.12	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	<b>140</b>		234-246	-	-
71	25.51	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	<b>105 132 161</b>		234-34; 234-236; 2346-35	-	-
75	26.25	6:2	<b>153</b>		245-245	-	-
76	26.37	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	<b>141</b>		2345-25	-	-
78	26.81	7:4	<b>179</b>		2356-236	-	-
79	27.02	6:2	<b>137</b>		2345-24	-	-
80	27.16	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	27.38	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.07	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	28.36	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	28.50	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	28.62	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	28.79	7:3	<b>183</b>		2346-245	-	-
91	29.05	6:1	<b>167</b>		245-345	-	-
92	29.37	7:3	<b>185</b>		23456-25	-	-
93	29.72	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	29.98	7:3	<b>177</b>		2356-234	-	-
95	30.26	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	30.51	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	30.68	7:3	<b>173</b>		23456-23	-	-
99	31.04	8:4	<b>201</b>		2346-2356	-	-
100	31.27	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	31.54	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	31.72	7:2	<b>180</b>		2345-245	-	-
103	31.96	7:2	<b>193</b>		2356-345	-	-
104	32.25	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	32.58	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	33.68	7:2	<b>170</b>		2345-234	-	-
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196</b> 203		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 134 ng/L

Total Nanomoles = 0.588

Average Molecular Weight = 228.5

Number of Calibrated Peaks Found = 3

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> ,102,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> ,110,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

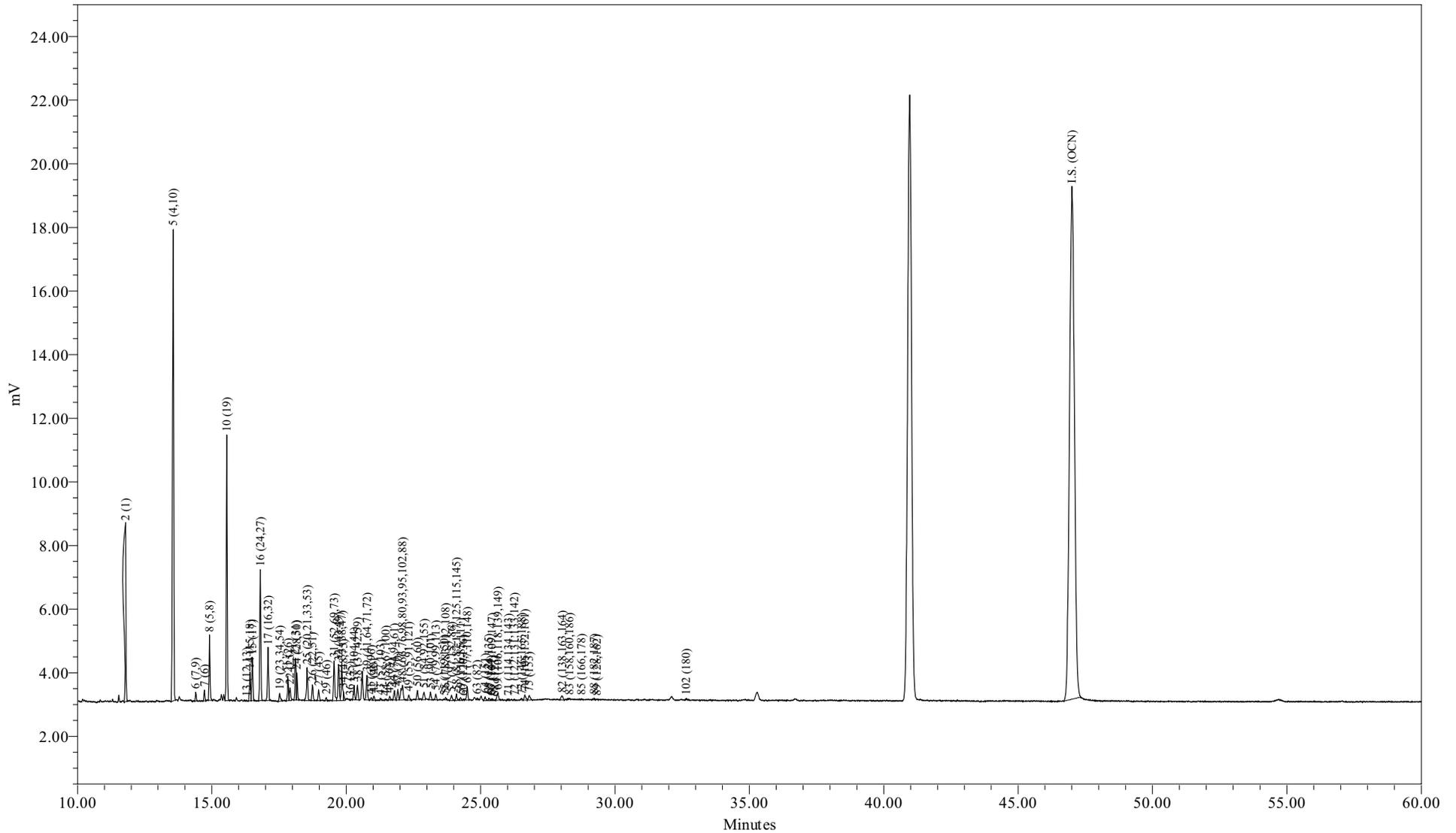
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09090294
ELAP ID No:	11078	LRF ID:	09090294-03
Matrix:	Water	Client ID:	WFF-THIS-090923-BT001
Sample Wt(Dry)/Vol:	990 mL	Lab Sample ID:	AM17391
% Moisture:	100	Lab File ID:	GC16-800-1
Extraction:	Solid Phase Extraction - 1L	Date Received:	09/23/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	09/23/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	09/24/2009 07:53
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 205138

Percent Recovery (50 - 150 %): 123

SAMPLE TOTAL PCB CONCENTRATION: 526 ng/L

Visual Aroclor ID: Altered Aroclor 1242



Sample Name: AM17391  
Sample ID: WFF-THIS-090923-BT001  
Date Acquired: 9/24/2009 7:53:43 AM EDT

Sample Amount (L) : 0.9900  
Dilution: 5  
Processing Method: CSGB LL1X 082309  
LIMS File ID: GC16-800-1

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 07:53:43  
 Lab Sample ID: AM17391  
 LRF ID: 09090294-03  
 Lab File ID: GC16-800-1

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 526 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	33.27	38.17
Di	48.88	47.41
Tri	13.12	11.03
Tetra	3.41	2.54
Penta	1.03	0.68
Hexa	0.27	0.17
Hepta	0.02	0.01
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	174.9985	96.8	96.8
A1242	23+24/31+28	4.9353	2.73	2.73
A1254SED	61/100	0.9065	0.501	
A1254BIO	69+75+82/149+153+138	0.9249		0.511
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.62

Meta + Para Cl / biphenyl Residue = 0.19

Total Cl / biphenyl Residue = 1.81

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 07:53:43  
 Lab Sample ID: AM17391  
 LRF ID: 09090294-03  
 Lab File ID: GC16-800-1

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7	1067	175	927	5.34	22.1	
3	12.83	188.7				6.69	1010	U
4	12.93	188.7				0.358	1.29	U
5	13.56	223.1	5205	247	1110	1.35	6.28	
6	14.40	223.1	694	0.716	3.21	0.0728	0.221	
7	14.72	223.1	853	1.61	7.23	0.160	0.351	
8	14.91	223.1	4970	6.82	30.6	0.548	2.58	
9	15.48	223.1				0.297	25.3	U
10	15.55	257.5	2056	27.1	105	0.610	1.03	
11	16.03	257.5				0.200	25.3	U
12	16.09	223.1				0.310	25.3	U
13	16.29	223.1	66	0.118	0.527	0.0564	0.0985	
14	16.42	249.0	2430	3.58	14.4	0.129	0.683	
15	16.51	257.5	3702	8.99	34.9	0.145	0.683	
16	16.80	257.5	1150	9.76	37.9	0.378	0.480	B
17	17.09	257.5	4652	6.43	25.0	0.168	0.720	
19	17.53	267.9	886	0.999	3.73	0.130	25.3	J
20	17.71	257.5				0.0109	0.0196	U
21	17.83	257.5	2180	2.27	8.80	0.0612	0.133	B
22	17.91	257.5	1268	0.869	3.37	0.0430	0.0591	B
23	18.11	257.5	3863	3.21	12.5	0.492	0.761	
24	18.16	257.5	2297	1.72	6.68	0.213	0.974	
25	18.55	259.5	3224	3.13	12.0	0.106	0.733	
26	18.74	258.7	1463	1.56	6.04	0.121	0.535	
27	18.97	292.0	992	0.883	3.03	0.0371	0.164	B
28	19.12	257.5				0.379	25.3	U
29	19.26	292.0	299	0.278	0.953	0.128	0.128	
30	19.39	257.5				0.121	25.3	U
31	19.55	292.0	3866	4.77	16.3	0.206	0.880	
32	19.71	292.0	3729	2.36	8.10	0.0988	0.425	
33	19.83	292.0	3907	1.74	5.95	0.0662	0.185	
34	19.90	292.0	530	0.291	0.996	0.0584	0.185	
35	20.04	292.0				0.207	25.3	U
36	20.15	257.5	50			0.146	25.3	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0	1346	1.01	3.47	0.162	0.794	
38	20.42	272.4	1458	1.42	5.22	0.116	0.480	
39	20.77	292.0	2610	1.59	5.43	0.123	0.757	
41	20.93	326.4	262	0.264	0.809	0.116	25.3	J
42	21.03	292.0	383	0.319	1.09	0.0978	0.174	
43	21.28	298.9	183			0.154	25.3	U
44	21.47	298.9	181	0.110	0.367	0.0227	0.0406	
45	21.61	292.0	310	0.164	0.562	0.0302	0.0388	
46	21.79	292.0	957	0.438	1.50	0.0829	0.351	
47	21.92	292.0	1025	0.514	1.76	0.165	0.628	J
48	22.09	293.5	2607	1.98	6.75	0.246	1.33	
49	22.33	324.7	606	0.413	1.27	0.0380	0.0941	
50	22.65	292.0	917	0.438	1.50	0.363	0.646	J
51	22.90	326.4	896	1.25	3.83	0.0897	0.332	
52	22.98	326.4				0.0388	0.0388	U
53	23.14	326.4	792	0.543	1.66	0.0698	0.332	
54	23.33	326.4	586	0.251	0.768	0.102	0.137	
55	23.66	326.4	94	0.0218	0.0667	0.00650	0.0104	B
56	23.70	326.4	207	0.139	0.427	0.0654	0.0654	
57	23.92	326.4	685	0.329	1.01	0.0439	0.103	B
58	24.10	326.4	685	0.397	1.22	0.0850	0.214	
59	24.25	326.4	288	0.155	0.474	0.0489	0.129	
60	24.35	360.9	95			0.0780	0.138	U
61	24.50	326.4	1356	0.906	2.78	0.0675	0.393	
62	24.79	360.9				0.114	25.3	U
63	24.87	326.4	216	0.0838	0.257	0.0203	0.0812	
64	25.17	360.9	487	0.249	0.690	0.0524	0.314	J
65	25.30	350.5	264	0.0797	0.227	0.0151	0.0535	
66	25.38	360.9	65	0.0623	0.173	0.0546	0.111	J
67	25.43	336.8	186	0.116	0.344	0.0352	0.0480	
68	25.54	326.4	64			0.126	25.3	U
69	25.64	337.5	977	0.442	1.31	0.0947	0.738	J
70	25.74	360.9				0.0837	25.3	U
71	26.03	347.8	236	0.101	0.291	0.0352	0.0373	
72	26.26	336.8	106	0.0233	0.0693	0.00645	0.0107	
73	26.53	360.9	196	0.0921	0.255	0.0323	0.0720	
74	26.65	347.8	650	0.255	0.733	0.0728	0.250	
75	26.81	360.9	678	0.243	0.675	0.110	0.544	J
76	26.93	360.9				0.108	25.3	U
77	27.35	360.9				0.0644	0.314	U
78	27.42	395.3				0.0475	0.269	U
79	27.65	360.9				0.0506	0.0506	U
80	27.80	360.9				0.0152	0.0480	U
82	28.04	360.9	697	0.239	0.662	0.109	0.498	J
83	28.31	360.9	195	0.0554	0.153	0.0454	0.0461	
84	28.42	360.9				0.00313	0.00478	U
85	28.75	395.3	86	0.0862	0.218	0.0684	0.203	J
87	29.08	395.3				0.0158	0.0738	U
88	29.23	395.3	204			0.103	0.664	U
89	29.33	360.9	96	0.0293	0.0812	0.0201	0.0369	J
90	29.53	395.3				0.0685	0.314	U
91	29.83	360.9				0.0352	0.0352	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.0227	0.0867	U
93	30.53	394.3				0.103	0.591	U
94	30.81	394.3				0.0945	0.314	U
95	31.11	382.2				0.0880	0.146	U
96	31.38	429.8				0.00951	0.0122	U
98	31.55	395.3				0.0135	0.0140	U
99	31.92	429.8				0.0872	0.0872	U
100	32.18	395.3				0.128	0.128	U
101	32.48	429.8				0.219	0.219	U
102	32.65	395.3	109			0.152	1.13	U
103	32.92	395.3				0.0646	0.0775	U
104	33.23	395.3				0.0378	0.0443	U
105	33.58	429.8				0.0465	0.0794	U
106	34.76	395.3				0.0544	0.236	U
107	35.04	395.3				0.0215	0.0775	U
108	35.92	429.8				0.0327	0.0443	U
109	36.16	429.8				0.117	0.775	U
110	36.71	429.8				0.186	0.794	U
111	37.90	395.3				0.0233	0.0233	U
112	39.49	429.8				0.0371	0.102	U
113	40.01	464.2				0.0443	0.0912	U
114	40.97	464.2				0.0156	0.0343	U
115	42.42	429.8				0.0978	0.332	U
116	43.32	429.8				0.0847	0.0847	U
117	48.57	464.2				0.0387	0.125	U
118	54.73	498.6				0.0127	0.0127	U

Total Concentration = 526 ng/L

16.1

59.4

Total Nanomoles = 2.430

Average Molecular Weight = 216.5

Number of Calibrated Peaks Found = 66

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 205137.9

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 07:53:43  
 Lab Sample ID: AM17391  
 LRF ID: 09090294-03  
 Lab File ID: GC16-800-1

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	33.273	38.167
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.56	2:2	004 010	0.2885	2-2; 26	46.953	45.555
6	14.40	2:1	007 009	0.3064	24; 25	0.136	0.132
7	14.72	2:1	006	0.3132	2-3	0.307	0.298
8	14.91	2:1	005 008	0.3172	23; 2-4	1.297	1.259
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	5.148	4.328
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013	0.3466	34; 3-4	0.022	0.022
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	0.681	0.592
15	16.51	3:2	017	0.3513	24-2	1.709	1.436
16	16.80	3:2	024 027	0.3574	236; 26-3	1.857	1.561
17	17.09	3:2	016 032	0.3636	23-2; 26-4	1.222	1.027
19	17.53	3:1 4:4	023 034 054	0.3730	235; 35-2; 26-26	0.190	0.154
20	17.71	3:1	029		245	-	-
21	17.83	3:1	026	0.3794	25-3	0.431	0.362
22	17.91	3:1	025	0.3811	24-3	0.165	0.139
23	18.11	3:1	031	0.3853	25-4	0.611	0.514
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	0.327	0.275
25	18.55	3:1 4:3	020 021 033 053	0.3947	23-3; 234; 34-2; 25-26	0.595	0.496
26	18.74	3:1 4:3	022 051	0.3987	23-4; 24-26	0.297	0.249
27	18.97	4:3	045	0.4036	236-2	0.168	0.125
28	19.12	3:0	036		35-3	-	-
29	19.26	4:3	046	0.4098	23-26	0.053	0.039
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	0.907	0.672
32	19.71	4:2	043 049	0.4194	235-2; 24-25	0.449	0.333
33	19.83	4:2	038 047	0.4219	345; 24-24	0.331	0.245
34	19.90	4:2	048 075	0.4234	245-2; 246-4	0.055	0.041
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.15	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	0.193	0.143
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	0.270	0.215

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.77	4:2	<b>041 064 071 072</b>	0.4419	234-2; 236-4; 26-34; 25-35	0.302	0.224
41	20.93	5:4	<b>068 096</b>	0.4453	24-35; 236-26	0.050	0.033
42	21.03	4:2	<b>040</b>	0.4474	23-23	0.061	0.045
43	21.28	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.47	4:1 5:3	<b>058 067 100</b>	0.4568	23-35; 245-3; 246-24	0.021	0.015
45	21.61	4:1	<b>063</b>	0.4598	235-4	0.031	0.023
46	21.79	4:1 5:3	<b>074 094 061</b>	0.4636	245-4; 235-26; 2345	0.083	0.062
47	21.92	4:1	<b>070</b>	0.4664	25-34	0.098	0.073
48	22.09	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4700	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.377	0.278
49	22.33	4:1 5:3	<b>055 091 121</b>	0.4751	234-3; 236-24; 246-35	0.078	0.052
50	22.65	4:1	<b>056 060</b>	0.4819	23-34; 234-4	0.083	0.062
51	22.90	5:3 6:4	<b>084 092 155</b>	0.4872	236-23; 235-25; 246-246	0.238	0.158
52	22.98	5:3	<b>089</b>		234-26	-	-
53	23.14	5:2	<b>090 101</b>	0.4923	235-24; 245-25	0.103	0.069
54	23.33	5:2	<b>079 099 113</b>	0.4964	34-35; 245-24; 236-35	0.048	0.032
55	23.66	5:2 6:4	<b>119 150</b>	0.5034	246-34; 236-246	0.004	0.003
56	23.70	5:2	<b>078 083 112 108</b>	0.5043	345-3; 235-23; 2356-3; 2346-3	0.026	0.018
57	23.92	5:2 6:4	<b>097 152 086</b>	0.5089	245-23; 2356-26; 2345-2	0.063	0.041
58	24.10	5:2	<b>081 087 117 125 115 145</b>	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.075	0.050
59	24.25	5:2	<b>116 085 111</b>	0.5160	23456; 234-24; 235-35	0.029	0.019
60	24.35	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.50	5:2	<b>077 110 148</b>	0.5213	34-34; 236-34; 235-246	0.172	0.114
62	24.79	6:3	<b>154</b>		245-246	-	-
63	24.87	5:2	<b>082</b>	0.5291	234-23	0.016	0.011
64	25.17	6:3	<b>151</b>	0.5355	2356-25	0.047	0.028
65	25.30	5:1 6:3	<b>124 135</b>	0.5383	345-25; 235-236	0.015	0.009
66	25.38	6:3	<b>144</b>	0.5400	2346-25	0.012	0.007
67	25.43	5:1 6:3	<b>107 109 147</b>	0.5411	234-35; 235-34; 2356-24	0.022	0.014
68	25.54	5:1	<b>123</b>		345-24	-	-
69	25.64	5:1 6:3	<b>106 118 139 149</b>	0.5455	2345-3; 245-34; 2346-24; 236-245	0.084	0.054
70	25.74	6:3	<b>140</b>		234-246	-	-
71	26.03	5:1 6:3	<b>114 134 143</b>	0.5538	2345-4; 2356-23; 2345-26	0.019	0.012
72	26.26	5:1 6:3	<b>122 131 133 142</b>	0.5587	345-23; 2346-23; 235-235; 23456-2	0.004	0.003
73	26.53	6:2	<b>146 165 188</b>	0.5645	235-245; 2356-35; 2356-246	0.018	0.011
74	26.65	5:1 6:3	<b>105 132 161</b>	0.5670	234-34; 234-236; 2346-35	0.048	0.030
75	26.81	6:2	<b>153</b>	0.5704	245-245	0.046	0.028
76	26.93	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	<b>141</b>		2345-25	-	-
78	27.42	7:4	<b>179</b>		2356-236	-	-
79	27.65	6:2	<b>137</b>		2345-24	-	-
80	27.80	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	28.04	6:2	<b>138 163 164</b>	0.5966	234-245; 2356-34; 236-345	0.045	0.027
83	28.31	6:2	<b>158 160 186</b>	0.6023	2346-34; 23456-3; 23456-26	0.011	0.006
84	28.42	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.75	7:3	<b>166 178</b>	0.6117	23456-4; 2356-235	0.016	0.009
87	29.08	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.23	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.33	6:2	<b>128 162</b>	0.6240	234-234; 235-345	0.006	0.003
90	29.53	7:3	<b>183</b>		2346-245	-	-
91	29.83	6:1	<b>167</b>		245-345	-	-
92	30.15	7:3	<b>185</b>		23456-25	-	-
93	30.53	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.81	7:3	<b>177</b>		2356-234	-	-
95	31.11	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.38	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.55	7:3	<b>173</b>		23456-23	-	-
99	31.92	8:4	<b>201</b>		2346-2356	-	-
100	32.18	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.48	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.65	7:2	<b>180</b>		2345-245	-	-
103	32.92	7:2	<b>193</b>		2356-345	-	-
104	33.23	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.58	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.76	7:2	<b>170</b>		2345-234	-	-
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196</b> 203		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 526 ng/L

Total Nanomoles = 2.430

Average Molecular Weight = 216.5

Number of Calibrated Peaks Found = 66

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> ,102,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> ,110,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

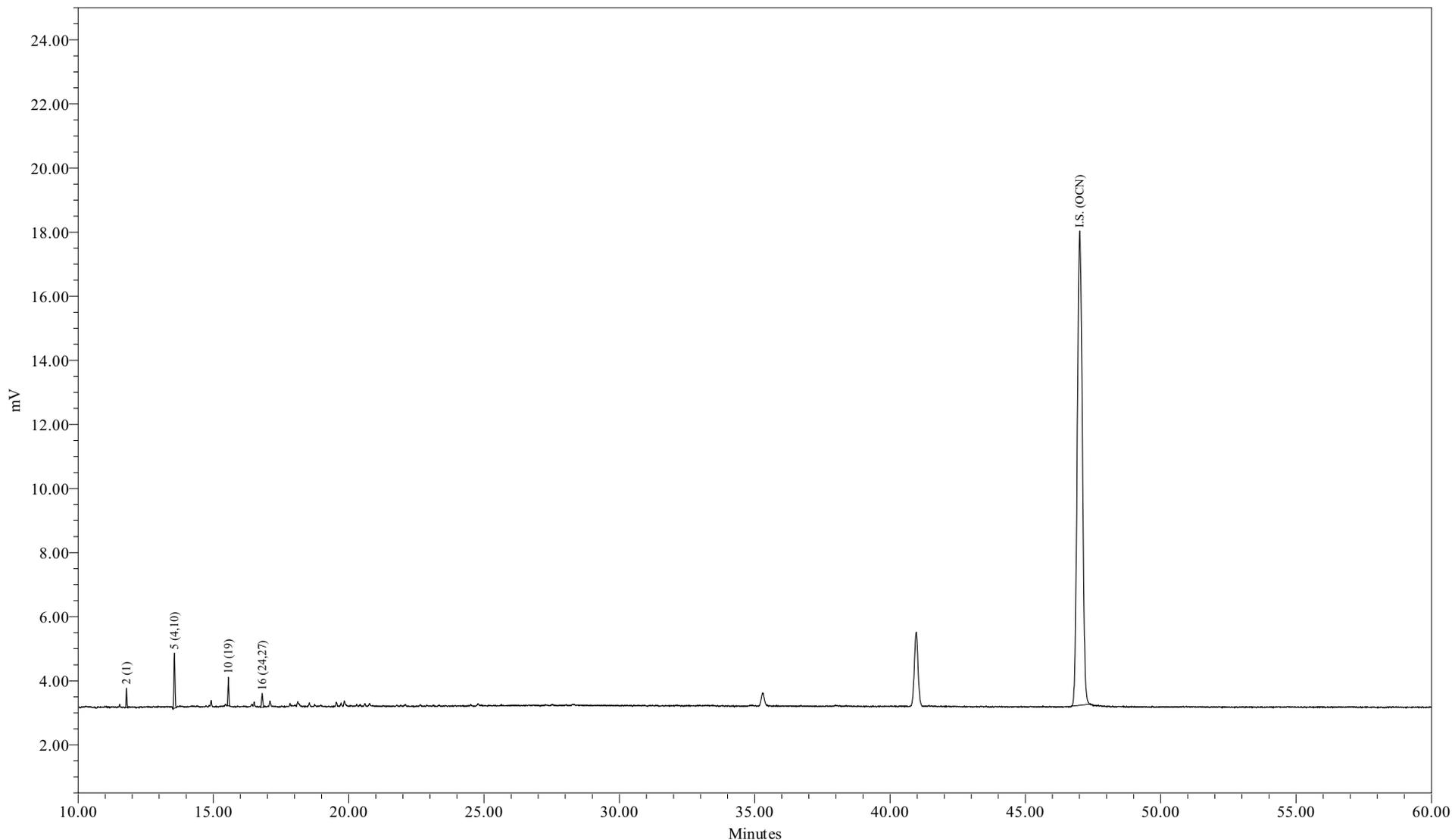
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: AM17391DL1RR1  
Sample ID: WFF-THIS-090923-BT001  
Date Acquired: 9/24/2009 1:30:52 PM EDT

Sample Amount (L) : 0.9900  
Dilution: 50  
Processing Method: CSGB LL1X 082309  
LIMS File ID: GC16-800-6

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 13:30:52  
 Lab Sample ID: AM17391DL1RR1  
 LRF ID: 09090294-03DL1RR1  
 Lab File ID: GC16-800-6

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 459 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	38.14	42.59
Di	53.83	50.84
Tri	8.03	6.57
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	174.9985	100	100
A1242	23+24/31+28		0	0
A1254SED	61/100		0	
A1254BIO	69+75+82/149+153+138			0
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.62

Meta + Para Cl / biphenyl Residue = 0.02

Total Cl / biphenyl Residue = 1.64

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 13:30:52  
 Lab Sample ID: AM17391DL1RR1  
 LRF ID: 09090294-03DL1RR1  
 Lab File ID: GC16-800-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7	1067	175	927	5.34	22.1	
3	12.83	188.7				66.9	10100	U
4	12.93	188.7				3.58	12.9	U
5	13.56	223.1	5205	247	1110	1.35	6.28	
6	14.41	223.1				0.728	2.21	U
7	14.72	223.1				1.60	3.51	U
8	14.91	223.1				5.48	25.8	U
9	15.48	223.1				2.97	253	U
10	15.55	257.5	2056	27.1	105	0.610	1.03	
11	16.03	257.5				2.00	253	U
12	16.09	223.1				3.10	253	U
13	16.29	223.1				0.564	0.985	U
14	16.42	249.0				1.29	6.83	U
15	16.51	257.5				1.45	6.83	U
16	16.80	257.5	1150	9.76	37.9	0.378	0.480	B
17	17.08	257.5				1.68	7.20	U
19	17.53	267.9				1.30	253	U
20	17.71	257.5				0.109	0.196	U
21	17.83	257.5				0.612	1.33	U
22	17.92	257.5				0.430	0.591	U
23	18.11	257.5				4.92	7.61	U
24	18.16	257.5				2.13	9.74	U
25	18.52	259.5				1.06	7.33	U
26	18.75	258.7				1.21	5.35	U
27	18.98	292.0				0.371	1.64	U
28	19.12	257.5				3.79	253	U
29	19.25	292.0				1.28	1.28	U
30	19.39	257.5				1.21	253	U
31	19.55	292.0				2.06	8.80	U
32	19.72	292.0				0.988	4.25	U
33	19.84	292.0				0.662	1.85	U
34	19.90	292.0				0.584	1.85	U
35	20.04	292.0				2.07	253	U
36	20.13	257.5				1.46	253	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0				1.62	7.94	U
38	20.43	272.4				1.16	4.80	U
39	20.77	292.0				1.23	7.57	U
41	20.93	326.4				1.16	253	U
42	21.03	292.0				0.978	1.74	U
43	21.29	298.9				1.54	253	U
44	21.45	298.9				0.227	0.406	U
45	21.62	292.0				0.302	0.388	U
46	21.79	292.0				0.829	3.51	U
47	21.92	292.0				1.65	6.28	U
48	22.04	293.5				2.46	13.3	U
49	22.33	324.7				0.380	0.941	U
50	22.64	292.0				3.63	6.46	U
51	22.88	326.4				0.897	3.32	U
52	22.98	326.4				0.388	0.388	U
53	23.14	326.4				0.698	3.32	U
54	23.34	326.4				1.02	1.37	U
55	23.61	326.4				0.0650	0.103	U
56	23.71	326.4				0.654	0.654	U
57	23.93	326.4				0.439	1.03	U
58	24.10	326.4				0.850	2.14	U
59	24.26	326.4				0.489	1.29	U
60	24.38	360.9				0.780	1.38	U
61	24.51	326.4				0.675	3.93	U
62	24.79	360.9				1.14	253	U
63	24.87	326.4				0.203	0.812	U
64	25.17	360.9				0.524	3.14	U
65	25.30	350.5				0.151	0.535	U
66	25.37	360.9				0.546	1.11	U
67	25.44	336.8				0.352	0.480	U
68	25.53	326.4				1.26	253	U
69	25.62	337.5				0.947	7.38	U
70	25.74	360.9				0.837	253	U
71	26.04	347.8				0.352	0.373	U
72	26.23	336.8				0.0645	0.107	U
73	26.52	360.9				0.323	0.720	U
74	26.66	347.8				0.728	2.50	U
75	26.82	360.9				1.10	5.44	U
76	26.93	360.9				1.08	253	U
77	27.35	360.9				0.644	3.14	U
78	27.42	395.3				0.475	2.69	U
79	27.65	360.9				0.506	0.506	U
80	27.80	360.9				0.152	0.480	U
82	28.02	360.9				1.09	4.98	U
83	28.21	360.9				0.454	0.461	U
84	28.42	360.9				0.0313	0.0478	U
85	28.77	395.3				0.684	2.03	U
87	29.08	395.3				0.158	0.738	U
88	29.22	395.3				1.03	6.64	U
89	29.35	360.9				0.201	0.369	U
90	29.53	395.3				0.685	3.14	U
91	29.83	360.9				0.352	0.352	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.227	0.867	U
93	30.53	394.3				1.03	5.91	U
94	30.81	394.3				0.945	3.14	U
95	31.11	382.2				0.880	1.46	U
96	31.38	429.8				0.0951	0.122	U
98	31.55	395.3				0.135	0.140	U
99	31.92	429.8				0.872	0.872	U
100	32.18	395.3				1.28	1.28	U
101	32.48	429.8				2.19	2.19	U
102	32.67	395.3				1.52	11.3	U
103	32.92	395.3				0.646	0.775	U
104	33.23	395.3				0.378	0.443	U
105	33.58	429.8				0.465	0.794	U
106	34.76	395.3				0.544	2.36	U
107	35.04	395.3				0.215	0.775	U
108	35.92	429.8				0.327	0.443	U
109	36.16	429.8				1.17	7.75	U
110	36.71	429.8				1.86	7.94	U
111	37.90	395.3				0.233	0.233	U
112	39.49	429.8				0.371	1.02	U
113	40.01	464.2				0.443	0.912	U
114	40.97	464.2				0.156	0.343	U
115	42.42	429.8				0.978	3.32	U
116	43.32	429.8				0.847	0.847	U
117	48.57	464.2				0.387	1.25	U
118	54.73	498.6				0.127	0.127	U

Total Concentration = 459 ng/L

92.0

325

Total Nanomoles = 2.177

Average Molecular Weight = 210.7

Number of Calibrated Peaks Found = 4

Internal Standard Retention Time = 47.01 minutes

Internal Standard Peak Area = 193961.2

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
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 Schenectady, NY 12308  
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### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 13:30:52  
 Lab Sample ID: AM17391DL1RR1  
 LRF ID: 09090294-03DL1RR1  
 Lab File ID: GC16-800-6

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2508	2	38.144	42.592
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.56	2:2	004 010	0.2884	2-2; 26	53.826	50.837
6	14.41	2:1	007 009		24; 25	-	-
7	14.72	2:1	006		2-3	-	-
8	14.91	2:1	005 008		23; 2-4	-	-
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3308	26-2	5.902	4.829
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013		34; 3-4	-	-
14	16.42	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.51	3:2	017		24-2	-	-
16	16.80	3:2	024 027	0.3574	236; 26-3	2.128	1.742
17	17.08	3:2	016 032		23-2; 26-4	-	-
19	17.53	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.71	3:1	029		245	-	-
21	17.83	3:1	026		25-3	-	-
22	17.92	3:1	025		24-3	-	-
23	18.11	3:1	031		25-4	-	-
24	18.16	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.52	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.75	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.98	4:3	045		236-2	-	-
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046		23-26	-	-
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.72	4:2	043 049		235-2; 24-25	-	-
33	19.84	4:2	038 047		345; 24-24	-	-
34	19.90	4:2	048 075		245-2; 246-4	-	-
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.43	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.77	4:2	<b>041 064 071 072</b>		234-2; 236-4; 26-34; 25-35	-	-
41	20.93	5:4	<b>068 096</b>		24-35; 236-26	-	-
42	21.03	4:2	<b>040</b>		23-23	-	-
43	21.29	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.45	4:1 5:3	<b>058 067 100</b>		23-35; 245-3; 246-24	-	-
45	21.62	4:1	<b>063</b>		235-4	-	-
46	21.79	4:1 5:3	<b>074 094 061</b>		245-4; 235-26; 2345	-	-
47	21.92	4:1	<b>070</b>		25-34	-	-
48	22.04	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.33	4:1 5:3	<b>055 091 121</b>		234-3; 236-24; 246-35	-	-
50	22.64	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.88	5:3 6:4	<b>084 092 155</b>		236-23; 235-25; 246-246	-	-
52	22.98	5:3	<b>089</b>		234-26	-	-
53	23.14	5:2	<b>090 101</b>		235-24; 245-25	-	-
54	23.34	5:2	<b>079 099 113</b>		34-35; 245-24; 236-35	-	-
55	23.61	5:2 6:4	<b>119 150</b>		246-34; 236-246	-	-
56	23.71	5:2	<b>078 083 112 108</b>		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.93	5:2 6:4	<b>097 152 086</b>		245-23; 2356-26; 2345-2	-	-
58	24.10	5:2	<b>081 087 117 125 115 145</b>		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.26	5:2	<b>116 085 111</b>		23456; 234-24; 235-35	-	-
60	24.38	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.51	5:2	<b>077 110 148</b>		34-34; 236-34; 235-246	-	-
62	24.79	6:3	<b>154</b>		245-246	-	-
63	24.87	5:2	<b>082</b>		234-23	-	-
64	25.17	6:3	<b>151</b>		2356-25	-	-
65	25.30	5:1 6:3	<b>124 135</b>		345-25; 235-236	-	-
66	25.37	6:3	<b>144</b>		2346-25	-	-
67	25.44	5:1 6:3	<b>107 109 147</b>		234-35; 235-34; 2356-24	-	-
68	25.53	5:1	<b>123</b>		345-24	-	-
69	25.62	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.74	6:3	<b>140</b>		234-246	-	-
71	26.04	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.66	5:1 6:3	<b>105 132 161</b>		234-34; 234-236; 2346-35	-	-
75	26.82	6:2	<b>153</b>		245-245	-	-
76	26.93	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	<b>141</b>		2345-25	-	-
78	27.42	7:4	<b>179</b>		2356-236	-	-
79	27.65	6:2	<b>137</b>		2345-24	-	-
80	27.80	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	28.02	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.77	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	29.08	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.22	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.35	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.53	7:3	<b>183</b>		2346-245	-	-
91	29.83	6:1	<b>167</b>		245-345	-	-
92	30.15	7:3	<b>185</b>		23456-25	-	-
93	30.53	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.81	7:3	<b>177</b>		2356-234	-	-
95	31.11	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.38	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.55	7:3	<b>173</b>		23456-23	-	-
99	31.92	8:4	<b>201</b>		2346-2356	-	-
100	32.18	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.48	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.67	7:2	<b>180</b>		2345-245	-	-
103	32.92	7:2	<b>193</b>		2356-345	-	-
104	33.23	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.58	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.76	7:2	<b>170</b>		2345-234	-	-
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196</b> 203		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 459 ng/L

Total Nanomoles = 2.177

Average Molecular Weight = 210.7

Number of Calibrated Peaks Found = 4

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09090294
ELAP ID No:	11078	LRF ID:	09090294-04
Matrix:	Water	Client ID:	WFF-TIDA-090923-BT001
Sample Wt(Dry)/Vol:	990 mL	Lab Sample ID:	AM17392
% Moisture:	100	Lab File ID:	GC16-800-3
Extraction:	Solid Phase Extraction - 1L	Date Received:	09/23/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	09/23/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	09/24/2009 10:08
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 191063

Percent Recovery (50 - 150 %): 114

SAMPLE TOTAL PCB CONCENTRATION: 390 ng/L

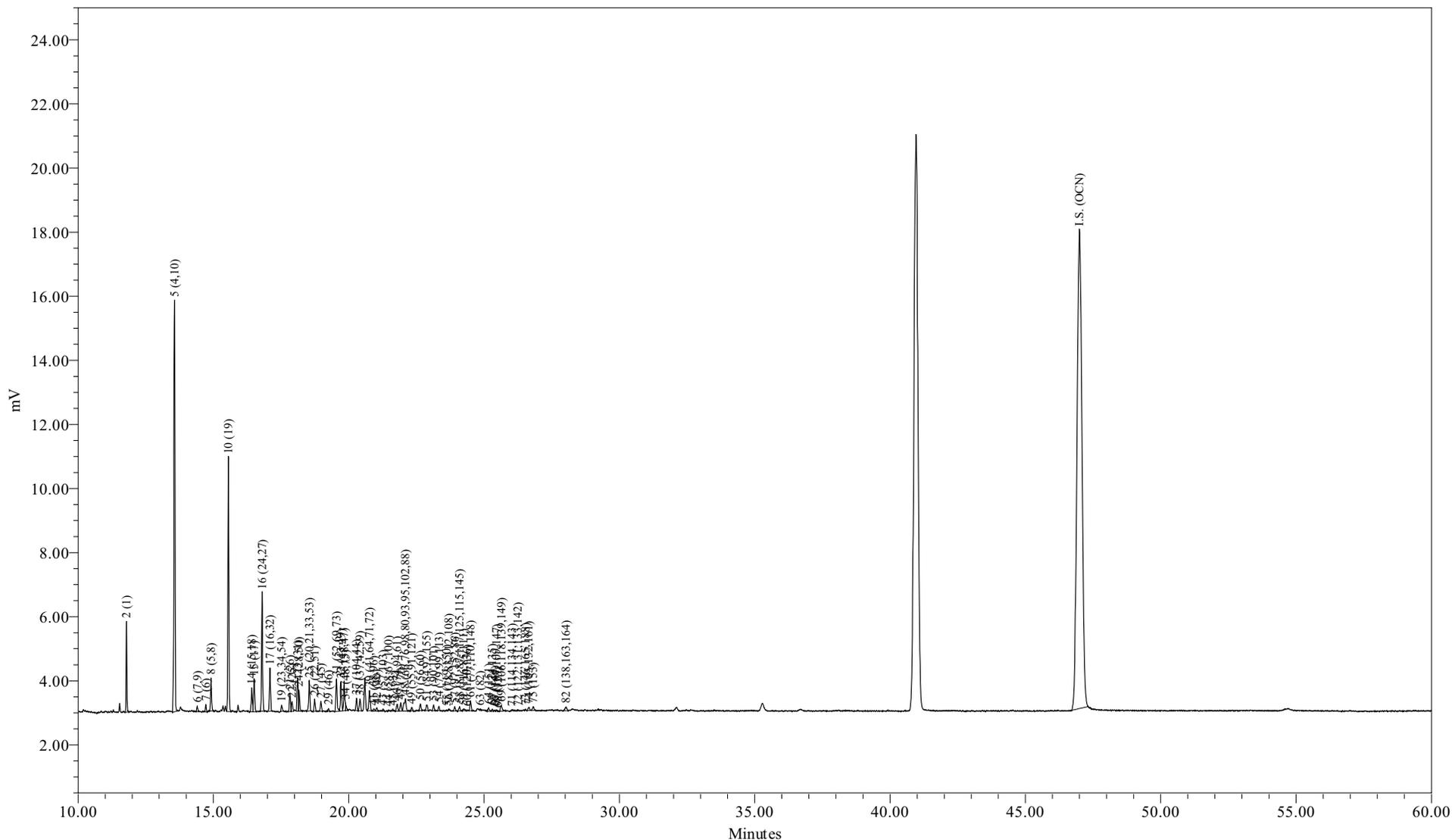
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM17392  
Sample ID: WFF-TIDA-090923-BT001  
Date Acquired: 9/24/2009 10:08:26 AM EDT

Sample Amount (L) : 0.9900  
Dilution: 5  
Processing Method: CSGB LL1X 082309  
LIMS File ID: GC16-800-3

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 10:08:26  
 Lab Sample ID: AM17392  
 LRF ID: 09090294-04  
 Lab File ID: GC16-800-3

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 390 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	22.29	26.25
Di	55.24	55.00
Tri	17.27	14.91
Tetra	3.84	2.94
Penta	1.07	0.73
Hexa	0.28	0.17
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	86.9048	94.8	94.7
A1242	23+24/31+28	4.1156	4.49	4.48
A1254SED	61/100	0.6860	0.748	
A1254BIO	69+75+82/149+153+138	0.7552		0.823
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.76

Meta + Para Cl / biphenyl Residue = 0.21

Total Cl / biphenyl Residue = 1.97

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 10:08:26  
 Lab Sample ID: AM17392  
 LRF ID: 09090294-04  
 Lab File ID: GC16-800-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7	5143	86.9	461	0.534	2.21	
3	12.83	188.7				6.69	1010	U
4	12.93	188.7				0.358	1.29	U
5	13.57	223.1	4338	209	938	1.35	6.28	
6	14.40	223.1	425	0.486	2.18	0.0728	0.221	
7	14.72	223.1	525	1.02	4.59	0.160	0.351	
8	14.91	223.1	2551	3.75	16.8	0.548	2.58	
9	15.48	223.1				0.297	25.3	U
10	15.55	257.5	2331	31.2	121	0.610	1.03	
11	16.03	257.5				0.200	25.3	U
12	16.09	223.1				0.310	25.3	U
13	16.29	223.1				0.0564	0.0985	U
14	16.42	249.0	2035	3.22	12.9	0.129	0.683	
15	16.50	257.5	2814	7.34	28.5	0.145	0.683	
16	16.80	257.5	1035	8.94	34.7	0.378	0.480	B
17	17.09	257.5	3777	5.59	21.7	0.168	0.720	
19	17.52	267.9	553	0.670	2.50	0.130	25.3	J
20	17.71	257.5				0.0109	0.0196	U
21	17.83	257.5	1606	1.80	6.98	0.0612	0.133	B
22	17.91	257.5	1000	0.735	2.85	0.0430	0.0591	B
23	18.11	257.5	3037	2.69	10.5	0.492	0.761	
24	18.16	257.5	1788	1.42	5.53	0.213	0.974	
25	18.55	259.5	2807	2.91	11.2	0.106	0.733	
26	18.74	258.7	1096	1.25	4.83	0.121	0.535	
27	18.97	292.0	861	0.823	2.82	0.0371	0.164	B
28	19.12	257.5				0.379	25.3	U
29	19.26	292.0	182	0.177	0.608	0.128	0.128	
30	19.39	257.5				0.121	25.3	U
31	19.55	292.0	3240	4.29	14.7	0.206	0.880	
32	19.71	292.0	2832	1.93	6.60	0.0988	0.425	
33	19.83	292.0	2876	1.36	4.64	0.0662	0.185	
34	19.88	292.0	525	0.312	1.07	0.0584	0.185	
35	20.04	292.0				0.207	25.3	U
36	20.13	257.5				0.146	25.3	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0	1088	0.869	2.98	0.162	0.794	
38	20.41	272.4	1214	1.27	4.66	0.116	0.480	
39	20.76	292.0	2120	1.37	4.70	0.123	0.757	
41	20.92	326.4	211	0.229	0.702	0.116	25.3	J
42	21.04	292.0	317	0.288	0.985	0.0978	0.174	
43	21.27	298.9	173			0.154	25.3	U
44	21.48	298.9	137	0.0902	0.302	0.0227	0.0406	
45	21.63	292.0	209	0.118	0.404	0.0302	0.0388	
46	21.79	292.0	758	0.374	1.28	0.0829	0.351	
47	21.92	292.0	854	0.454	1.56	0.165	0.628	J
48	22.09	293.5	2065	1.66	5.65	0.246	1.33	
49	22.32	324.7	360	0.269	0.828	0.0380	0.0941	
50	22.65	292.0	702			0.363	0.646	U
51	22.88	326.4	695	1.05	3.21	0.0897	0.332	
52	22.98	326.4				0.0388	0.0388	U
53	23.14	326.4	564	0.424	1.30	0.0698	0.332	
54	23.34	326.4	403	0.188	0.576	0.102	0.137	
55	23.62	326.4	84	0.0209	0.0642	0.00650	0.0104	B
56	23.69	326.4	168	0.122	0.374	0.0654	0.0654	
57	23.92	326.4	444	0.234	0.717	0.0439	0.103	B
58	24.09	326.4	440	0.272	0.833	0.0850	0.214	
59	24.25	326.4	280	0.161	0.492	0.0489	0.129	
60	24.37	360.9	104			0.0780	0.138	U
61	24.50	326.4	943	0.686	2.10	0.0675	0.393	
62	24.79	360.9				0.114	25.3	U
63	24.86	326.4	80	0.0213	0.0652	0.0203	0.0812	J
64	25.17	360.9	423	0.230	0.636	0.0524	0.314	J
65	25.30	350.5	218	0.0693	0.198	0.0151	0.0535	
66	25.41	360.9	130	0.128	0.355	0.0546	0.111	
67	25.46	336.8	141	0.0949	0.282	0.0352	0.0480	
68	25.51	326.4	32			0.126	25.3	U
69	25.64	337.5	782	0.371	1.10	0.0947	0.738	J
70	25.74	360.9				0.0837	25.3	U
71	26.03	347.8	155	0.0696	0.200	0.0352	0.0373	
72	26.24	336.8	48	0.0115	0.0342	0.00645	0.0107	
73	26.53	360.9	45			0.0323	0.0720	U
74	26.65	347.8	358	0.147	0.423	0.0728	0.250	J
75	26.81	360.9	480	0.175	0.484	0.110	0.544	J
76	26.93	360.9				0.108	25.3	U
77	27.35	360.9				0.0644	0.314	U
78	27.42	395.3				0.0475	0.269	U
79	27.65	360.9				0.0506	0.0506	U
80	27.80	360.9				0.0152	0.0480	U
82	28.03	360.9	590	0.209	0.580	0.109	0.498	J
83	28.21	360.9				0.0454	0.0461	U
84	28.42	360.9				0.00313	0.00478	U
85	28.77	395.3				0.0684	0.203	U
87	29.08	395.3				0.0158	0.0738	U
88	29.22	395.3				0.103	0.664	U
89	29.35	360.9				0.0201	0.0369	U
90	29.53	395.3				0.0685	0.314	U
91	29.83	360.9				0.0352	0.0352	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.0227	0.0867	U
93	30.53	394.3				0.103	0.591	U
94	30.81	394.3				0.0945	0.314	U
95	31.11	382.2				0.0880	0.146	U
96	31.38	429.8				0.00951	0.0122	U
98	31.55	395.3				0.0135	0.0140	U
99	31.92	429.8				0.0872	0.0872	U
100	32.18	395.3				0.128	0.128	U
101	32.48	429.8				0.219	0.219	U
102	32.67	395.3				0.152	1.13	U
103	32.92	395.3				0.0646	0.0775	U
104	33.23	395.3				0.0378	0.0443	U
105	33.58	429.8				0.0465	0.0794	U
106	34.76	395.3				0.0544	0.236	U
107	35.04	395.3				0.0215	0.0775	U
108	35.92	429.8				0.0327	0.0443	U
109	36.16	429.8				0.117	0.775	U
110	36.71	429.8				0.186	0.794	U
111	37.90	395.3				0.0233	0.0233	U
112	39.49	429.8				0.0371	0.102	U
113	40.01	464.2				0.0443	0.0912	U
114	40.97	464.2				0.0156	0.0343	U
115	42.42	429.8				0.0978	0.332	U
116	43.32	429.8				0.0847	0.0847	U
117	48.57	464.2				0.0387	0.125	U
118	54.73	498.6				0.0127	0.0127	U

Total Concentration = 390 ng/L

11.3

39.5

Total Nanomoles = 1.754

Average Molecular Weight = 222.2

Number of Calibrated Peaks Found = 59

Internal Standard Retention Time = 46.99 minutes

Internal Standard Peak Area = 191062.6

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 10:08:26  
 Lab Sample ID: AM17392  
 LRF ID: 09090294-04  
 Lab File ID: GC16-800-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	22.294	26.253
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.57	2:2	004 010	0.2888	2-2; 26	53.685	53.472
6	14.40	2:1	007 009	0.3064	24; 25	0.125	0.124
7	14.72	2:1	006	0.3133	2-3	0.263	0.262
8	14.91	2:1	005 008	0.3173	23; 2-4	0.963	0.959
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	8.014	6.915
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013		34; 3-4	-	-
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	0.825	0.736
15	16.50	3:2	017	0.3511	24-2	1.884	1.626
16	16.80	3:2	024 027	0.3575	236; 26-3	2.294	1.979
17	17.09	3:2	016 032	0.3637	23-2; 26-4	1.435	1.238
19	17.52	3:1 4:4	023 034 054	0.3728	235; 35-2; 26-26	0.172	0.143
20	17.71	3:1	029		245	-	-
21	17.83	3:1	026	0.3794	25-3	0.461	0.398
22	17.91	3:1	025	0.3811	24-3	0.189	0.163
23	18.11	3:1	031	0.3854	25-4	0.690	0.596
24	18.16	3:1 4:3	028 050	0.3865	24-4; 246-2	0.365	0.315
25	18.55	3:1 4:3	020 021 033 053	0.3948	23-3; 234; 34-2; 25-26	0.748	0.640
26	18.74	3:1 4:3	022 051	0.3988	23-4; 24-26	0.321	0.275
27	18.97	4:3	045	0.4037	236-2	0.211	0.161
28	19.12	3:0	036		35-3	-	-
29	19.26	4:3	046	0.4099	23-26	0.046	0.035
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	1.101	0.838
32	19.71	4:2	043 049	0.4195	235-2; 24-25	0.495	0.376
33	19.83	4:2	038 047	0.4220	345; 24-24	0.348	0.265
34	19.88	4:2	048 075	0.4231	245-2; 246-4	0.080	0.061
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044	0.4318	246-26; 23-25	0.223	0.170
38	20.41	3:0 4:2	037 042 059	0.4343	34-4; 23-24; 236-3	0.326	0.266

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.76	4:2	<b>041 064 071 072</b>	0.4418	234-2; 236-4; 26-34; 25-35	0.352	0.268
41	20.92	5:4	<b>068 096</b>	0.4452	24-35; 236-26	0.059	0.040
42	21.04	4:2	<b>040</b>	0.4478	23-23	0.074	0.056
43	21.27	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.48	4:1 5:3	<b>058 067 100</b>	0.4571	23-35; 245-3; 246-24	0.023	0.017
45	21.63	4:1	<b>063</b>	0.4603	235-4	0.030	0.023
46	21.79	4:1 5:3	<b>074 094 061</b>	0.4637	245-4; 235-26; 2345	0.096	0.073
47	21.92	4:1	<b>070</b>	0.4665	25-34	0.117	0.089
48	22.09	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4701	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.425	0.322
49	22.32	4:1 5:3	<b>055 091 121</b>	0.4750	234-3; 236-24; 246-35	0.069	0.047
50	22.65	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.88	5:3 6:4	<b>084 092 155</b>	0.4869	236-23; 235-25; 246-246	0.268	0.183
52	22.98	5:3	<b>089</b>		234-26	-	-
53	23.14	5:2	<b>090 101</b>	0.4924	235-24; 245-25	0.109	0.074
54	23.34	5:2	<b>079 099 113</b>	0.4967	34-35; 245-24; 236-35	0.048	0.033
55	23.62	5:2 6:4	<b>119 150</b>	0.5027	246-34; 236-246	0.005	0.004
56	23.69	5:2	<b>078 083 112 108</b>	0.5041	345-3; 235-23; 2356-3; 2346-3	0.031	0.021
57	23.92	5:2 6:4	<b>097 152 086</b>	0.5090	245-23; 2356-26; 2345-2	0.060	0.041
58	24.09	5:2	<b>081 087 117 125 115 145</b>	0.5127	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.070	0.047
59	24.25	5:2	<b>116 085 111</b>	0.5161	23456; 234-24; 235-35	0.041	0.028
60	24.37	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.50	5:2	<b>077 110 148</b>	0.5214	34-34; 236-34; 235-246	0.176	0.120
62	24.79	6:3	<b>154</b>		245-246	-	-
63	24.86	5:2	<b>082</b>	0.5290	234-23	0.005	0.004
64	25.17	6:3	<b>151</b>	0.5356	2356-25	0.059	0.036
65	25.30	5:1 6:3	<b>124 135</b>	0.5384	345-25; 235-236	0.018	0.011
66	25.41	6:3	<b>144</b>	0.5408	2346-25	0.033	0.020
67	25.46	5:1 6:3	<b>107 109 147</b>	0.5418	234-35; 235-34; 2356-24	0.024	0.016
68	25.51	5:1	<b>123</b>		345-24	-	-
69	25.64	5:1 6:3	<b>106 118 139 149</b>	0.5456	2345-3; 245-34; 2346-24; 236-245	0.095	0.063
70	25.74	6:3	<b>140</b>		234-246	-	-
71	26.03	5:1 6:3	<b>114 134 143</b>	0.5539	2345-4; 2356-23; 2345-26	0.018	0.011
72	26.24	5:1 6:3	<b>122 131 133 142</b>	0.5584	345-23; 2346-23; 235-235; 23456-2	0.003	0.002
73	26.53	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.65	5:1 6:3	<b>105 132 161</b>	0.5671	234-34; 234-236; 2346-35	0.038	0.024
75	26.81	6:2	<b>153</b>	0.5705	245-245	0.045	0.028
76	26.93	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	<b>141</b>		2345-25	-	-
78	27.42	7:4	<b>179</b>		2356-236	-	-
79	27.65	6:2	<b>137</b>		2345-24	-	-
80	27.80	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	28.03	6:2	<b>138 163 164</b>	0.5965	234-245; 2356-34; 236-345	0.054	0.033
83	28.21	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.77	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	29.08	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.22	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.35	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.53	7:3	<b>183</b>		2346-245	-	-
91	29.83	6:1	<b>167</b>		245-345	-	-
92	30.15	7:3	<b>185</b>		23456-25	-	-
93	30.53	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.81	7:3	<b>177</b>		2356-234	-	-
95	31.11	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.38	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.55	7:3	<b>173</b>		23456-23	-	-
99	31.92	8:4	<b>201</b>		2346-2356	-	-
100	32.18	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.48	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.67	7:2	<b>180</b>		2345-245	-	-
103	32.92	7:2	<b>193</b>		2356-345	-	-
104	33.23	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.58	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.76	7:2	<b>170</b>		2345-234	-	-
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196</b> 203		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 390 ng/L

Total Nanomoles = 1.754

Average Molecular Weight = 222.2

Number of Calibrated Peaks Found = 59

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> ,102,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> ,110,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

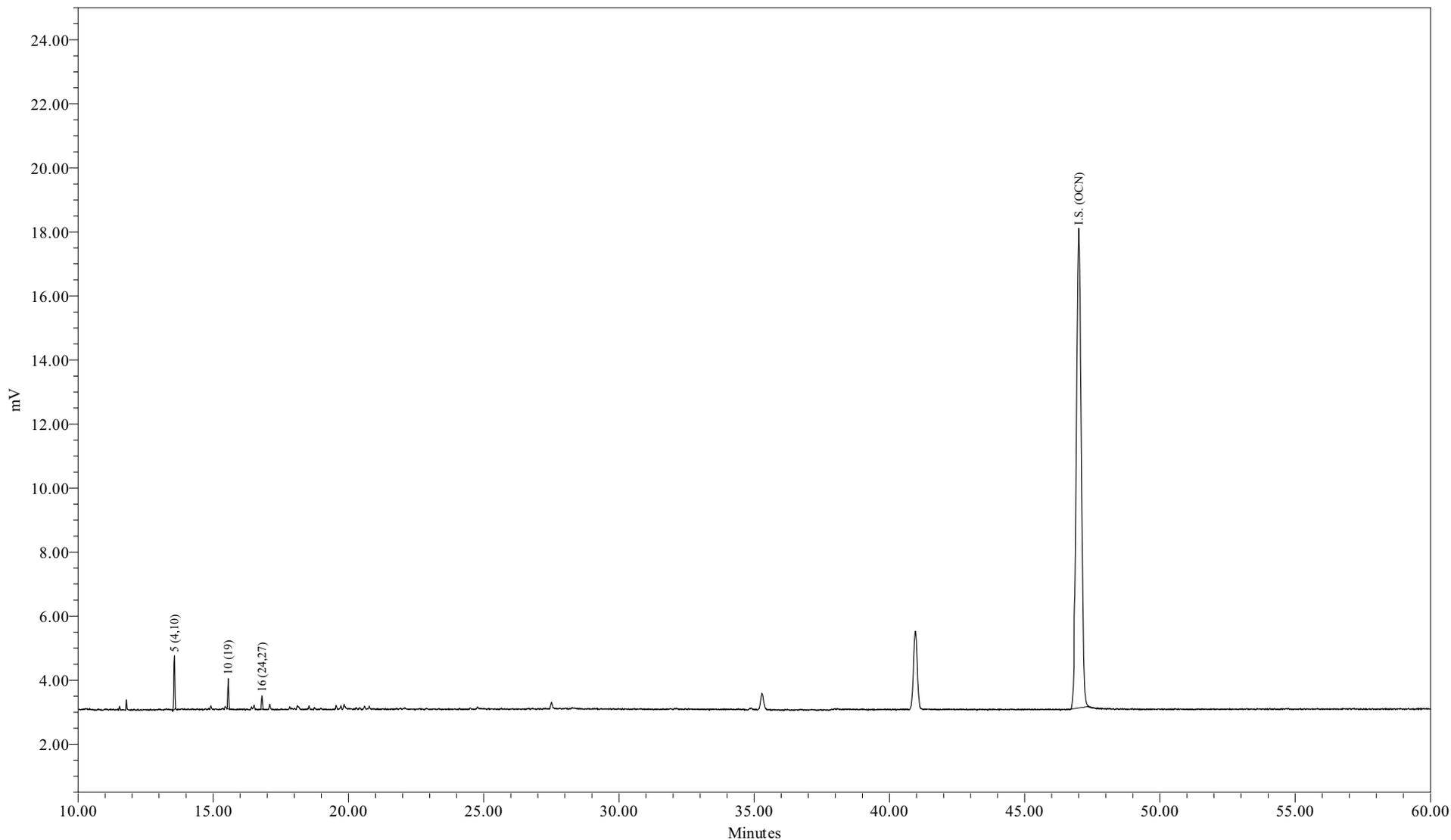
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM17392DL1  
Sample ID: WFF-TIDA-090923-BT001  
Date Acquired: 9/24/2009 11:15:50 AM EDT

Sample Amount (L) : 0.9900  
Dilution: 50  
Processing Method: CSGB LL1X 082309  
LIMS File ID: GC16-800-4

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 11:15:50  
 Lab Sample ID: AM17392DL1  
 LRF ID: 09090294-04DL1  
 Lab File ID: GC16-800-4

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 249 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	83.89	85.74
Tri	16.11	14.26
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.11

Meta + Para Cl / biphenyl Residue = 0.03

Total Cl / biphenyl Residue = 2.14

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 11:15:50  
 Lab Sample ID: AM17392DL1  
 LRF ID: 09090294-04DL1  
 Lab File ID: GC16-800-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7				5.34	22.1	U
3	12.83	188.7				66.9	10100	U
4	12.93	188.7				3.58	12.9	U
5	13.57	223.1	4338	209	938	1.35	6.28	U
6	14.41	223.1				0.728	2.21	U
7	14.72	223.1				1.60	3.51	U
8	14.91	223.1				5.48	25.8	U
9	15.48	223.1				2.97	253	U
10	15.55	257.5	2331	31.2	121	0.610	1.03	U
11	16.03	257.5				2.00	253	U
12	16.09	223.1				3.10	253	U
13	16.29	223.1				0.564	0.985	U
14	16.42	249.0				1.29	6.83	U
15	16.51	257.5				1.45	6.83	U
16	16.80	257.5	1035	8.94	34.7	0.378	0.480	B
17	17.08	257.5				1.68	7.20	U
19	17.53	267.9				1.30	253	U
20	17.71	257.5				0.109	0.196	U
21	17.83	257.5				0.612	1.33	U
22	17.92	257.5				0.430	0.591	U
23	18.11	257.5				4.92	7.61	U
24	18.16	257.5				2.13	9.74	U
25	18.52	259.5				1.06	7.33	U
26	18.75	258.7				1.21	5.35	U
27	18.98	292.0				0.371	1.64	U
28	19.12	257.5				3.79	253	U
29	19.25	292.0				1.28	1.28	U
30	19.39	257.5				1.21	253	U
31	19.55	292.0				2.06	8.80	U
32	19.72	292.0				0.988	4.25	U
33	19.84	292.0				0.662	1.85	U
34	19.90	292.0				0.584	1.85	U
35	20.04	292.0				2.07	253	U
36	20.13	257.5				1.46	253	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0				1.62	7.94	U
38	20.43	272.4				1.16	4.80	U
39	20.77	292.0				1.23	7.57	U
41	20.93	326.4				1.16	253	U
42	21.03	292.0				0.978	1.74	U
43	21.29	298.9				1.54	253	U
44	21.45	298.9				0.227	0.406	U
45	21.62	292.0				0.302	0.388	U
46	21.79	292.0				0.829	3.51	U
47	21.92	292.0				1.65	6.28	U
48	22.04	293.5				2.46	13.3	U
49	22.33	324.7				0.380	0.941	U
50	22.64	292.0				3.63	6.46	U
51	22.88	326.4				0.897	3.32	U
52	22.98	326.4				0.388	0.388	U
53	23.14	326.4				0.698	3.32	U
54	23.34	326.4				1.02	1.37	U
55	23.61	326.4				0.0650	0.103	U
56	23.71	326.4				0.654	0.654	U
57	23.93	326.4				0.439	1.03	U
58	24.10	326.4				0.850	2.14	U
59	24.26	326.4				0.489	1.29	U
60	24.38	360.9				0.780	1.38	U
61	24.51	326.4				0.675	3.93	U
62	24.79	360.9				1.14	253	U
63	24.87	326.4				0.203	0.812	U
64	25.17	360.9				0.524	3.14	U
65	25.30	350.5				0.151	0.535	U
66	25.37	360.9				0.546	1.11	U
67	25.44	336.8				0.352	0.480	U
68	25.53	326.4				1.26	253	U
69	25.62	337.5				0.947	7.38	U
70	25.74	360.9				0.837	253	U
71	26.04	347.8				0.352	0.373	U
72	26.23	336.8				0.0645	0.107	U
73	26.52	360.9				0.323	0.720	U
74	26.66	347.8				0.728	2.50	U
75	26.82	360.9				1.10	5.44	U
76	26.93	360.9				1.08	253	U
77	27.35	360.9				0.644	3.14	U
78	27.42	395.3				0.475	2.69	U
79	27.65	360.9				0.506	0.506	U
80	27.80	360.9				0.152	0.480	U
82	28.02	360.9				1.09	4.98	U
83	28.21	360.9				0.454	0.461	U
84	28.42	360.9				0.0313	0.0478	U
85	28.77	395.3				0.684	2.03	U
87	29.08	395.3				0.158	0.738	U
88	29.22	395.3				1.03	6.64	U
89	29.35	360.9				0.201	0.369	U
90	29.53	395.3				0.685	3.14	U
91	29.83	360.9				0.352	0.352	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.227	0.867	U
93	30.53	394.3				1.03	5.91	U
94	30.81	394.3				0.945	3.14	U
95	31.11	382.2				0.880	1.46	U
96	31.38	429.8				0.0951	0.122	U
98	31.55	395.3				0.135	0.140	U
99	31.92	429.8				0.872	0.872	U
100	32.18	395.3				1.28	1.28	U
101	32.48	429.8				2.19	2.19	U
102	32.67	395.3				1.52	11.3	U
103	32.92	395.3				0.646	0.775	U
104	33.23	395.3				0.378	0.443	U
105	33.58	429.8				0.465	0.794	U
106	34.76	395.3				0.544	2.36	U
107	35.04	395.3				0.215	0.775	U
108	35.92	429.8				0.327	0.443	U
109	36.16	429.8				1.17	7.75	U
110	36.71	429.8				1.86	7.94	U
111	37.90	395.3				0.233	0.233	U
112	39.49	429.8				0.371	1.02	U
113	40.01	464.2				0.443	0.912	U
114	40.97	464.2				0.156	0.343	U
115	42.42	429.8				0.978	3.32	U
116	43.32	429.8				0.847	0.847	U
117	48.57	464.2				0.387	1.25	U
118	54.73	498.6				0.127	0.127	U

Total Concentration = 249 ng/L

92.0

325

J

Total Nanomoles = 1.094

Average Molecular Weight = 228.0

Number of Calibrated Peaks Found = 3

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 190756.1

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-090923-BT001  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 11:15:50  
 Lab Sample ID: AM17392DL1  
 LRF ID: 09090294-04DL1  
 Lab File ID: GC16-800-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	2		-	-
3	12.83	1:0	002	3		-	-
4	12.93	1:0	003	4		-	-
5	13.57	2:2	004 010	0.2887	2-2; 26	83.893	85.738
6	14.41	2:1	007 009		24; 25	-	-
7	14.72	2:1	006		2-3	-	-
8	14.91	2:1	005 008		23; 2-4	-	-
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	12.523	11.088
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013		34; 3-4	-	-
14	16.42	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.51	3:2	017		24-2	-	-
16	16.80	3:2	024 027	0.3574	236; 26-3	3.584	3.174
17	17.08	3:2	016 032		23-2; 26-4	-	-
19	17.53	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.71	3:1	029		245	-	-
21	17.83	3:1	026		25-3	-	-
22	17.92	3:1	025		24-3	-	-
23	18.11	3:1	031		25-4	-	-
24	18.16	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.52	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.75	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.98	4:3	045		236-2	-	-
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046		23-26	-	-
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.72	4:2	043 049		235-2; 24-25	-	-
33	19.84	4:2	038 047		345; 24-24	-	-
34	19.90	4:2	048 075		245-2; 246-4	-	-
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.43	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.77	4:2	<b>041 064 071 072</b>		234-2; 236-4; 26-34; 25-35	-	-
41	20.93	5:4	<b>068 096</b>		24-35; 236-26	-	-
42	21.03	4:2	<b>040</b>		23-23	-	-
43	21.29	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.45	4:1 5:3	<b>058 067 100</b>		23-35; 245-3; 246-24	-	-
45	21.62	4:1	<b>063</b>		235-4	-	-
46	21.79	4:1 5:3	<b>074 094 061</b>		245-4; 235-26; 2345	-	-
47	21.92	4:1	<b>070</b>		25-34	-	-
48	22.04	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.33	4:1 5:3	<b>055 091 121</b>		234-3; 236-24; 246-35	-	-
50	22.64	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.88	5:3 6:4	<b>084 092 155</b>		236-23; 235-25; 246-246	-	-
52	22.98	5:3	<b>089</b>		234-26	-	-
53	23.14	5:2	<b>090 101</b>		235-24; 245-25	-	-
54	23.34	5:2	<b>079 099 113</b>		34-35; 245-24; 236-35	-	-
55	23.61	5:2 6:4	<b>119 150</b>		246-34; 236-246	-	-
56	23.71	5:2	<b>078 083 112 108</b>		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.93	5:2 6:4	<b>097 152 086</b>		245-23; 2356-26; 2345-2	-	-
58	24.10	5:2	<b>081 087 117 125 115 145</b>		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.26	5:2	<b>116 085 111</b>		23456; 234-24; 235-35	-	-
60	24.38	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.51	5:2	<b>077 110 148</b>		34-34; 236-34; 235-246	-	-
62	24.79	6:3	<b>154</b>		245-246	-	-
63	24.87	5:2	<b>082</b>		234-23	-	-
64	25.17	6:3	<b>151</b>		2356-25	-	-
65	25.30	5:1 6:3	<b>124 135</b>		345-25; 235-236	-	-
66	25.37	6:3	<b>144</b>		2346-25	-	-
67	25.44	5:1 6:3	<b>107 109 147</b>		234-35; 235-34; 2356-24	-	-
68	25.53	5:1	<b>123</b>		345-24	-	-
69	25.62	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.74	6:3	<b>140</b>		234-246	-	-
71	26.04	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.66	5:1 6:3	<b>105 132 161</b>		234-34; 234-236; 2346-35	-	-
75	26.82	6:2	<b>153</b>		245-245	-	-
76	26.93	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	<b>141</b>		2345-25	-	-
78	27.42	7:4	<b>179</b>		2356-236	-	-
79	27.65	6:2	<b>137</b>		2345-24	-	-
80	27.80	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	28.02	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.77	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	29.08	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.22	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.35	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.53	7:3	<b>183</b>		2346-245	-	-
91	29.83	6:1	<b>167</b>		245-345	-	-
92	30.15	7:3	<b>185</b>		23456-25	-	-
93	30.53	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.81	7:3	<b>177</b>		2356-234	-	-
95	31.11	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.38	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.55	7:3	<b>173</b>		23456-23	-	-
99	31.92	8:4	<b>201</b>		2346-2356	-	-
100	32.18	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.48	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.67	7:2	<b>180</b>		2345-245	-	-
103	32.92	7:2	<b>193</b>		2356-345	-	-
104	33.23	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.58	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.76	7:2	<b>170</b>		2345-234	-	-
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196</b> 203		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 249 ng/L

Total Nanomoles = 1.094

Average Molecular Weight = 228.0

Number of Calibrated Peaks Found = 3

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> ,102,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> ,110,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

# Sample GC Injection Log (GC-16)



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Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Set Name: GC16\_CC\_082309  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 08/23/2009 02:05:02 EDT  
Current Date: 09/02/2009  
Report Name: CSGB\_SSReport

### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090823B01	1.000	1.00	1	08/23/2009 02:12:16 EDT
2	HEXANE BLANK	Unknown	090823B02	1.000	1.00	1	08/23/2009 03:19:41 EDT
3	ICAL 6.25 ng/mL	Standard	ICAL0823A	1.000	1.00	1	08/23/2009 04:27:16 EDT
4	ICAL 12.5 ng/mL	Standard	ICAL0823B	1.000	1.00	1	08/23/2009 05:34:46 EDT
5	ICAL 125 ng/mL	Standard	ICAL0823C	1.000	1.00	1	08/23/2009 06:42:13 EDT
6	ICAL 314 ng/mL	Standard	ICAL0823D	1.000	1.00	1	08/23/2009 07:49:33 EDT
7	ICAL 627 ng/mL	Standard	ICAL0823E	1.000	1.00	1	08/23/2009 08:56:52 EDT
8	HEXANE BLANK	Unknown	090823B03	1.000	1.00	1	08/23/2009 10:04:12 EDT
9	SUP CONG STD 200/5 ng/mL	Standard	SC0823A	1.000	1.00	1	08/23/2009 11:11:32 EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0823A	1.000	1.00	1	08/23/2009 12:18:49 EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0823B	1.000	1.00	1	08/23/2009 13:26:05 EDT
12	Surr TCMX/DCBP 5/50 ppb	Standard	TD0823A	1.000	1.00	1	08/23/2009 14:33:23 EDT
13	HEXANE BLANK	Unknown	090823B04	1.000	1.00	1	08/23/2009 15:40:42 EDT
14	CCC Std 122 ng/mL	Unknown	CCCS0823A	1.000	1.00	1	08/23/2009 16:48:04 EDT



Sample Set Name: GC16\_092209c  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 09/22/2009 09:30:57  
Date Printed: 09/25/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090922B02	1.000	1.00	1	09/22/2009 09:30:57
2	CCC Std 122 ng/mL	Unknown	CCCS0922A	1.000	1.00	1	09/22/2009 10:38:25
3	METHOD BLANK	Unknown	AM17150B	1.000	5.00	5	09/22/2009 11:45:42
4	LAB CONTROL SPIKE	Unknown	AM17150L	1.000	5.00	5	09/22/2009 12:53:07
5	ZZZZZ	Unknown	ZZZZZ	0.940	5.00	5	09/22/2009 14:00:33
6	ZZZZZ	Unknown	ZZZZZ	0.940	50.00	5	09/22/2009 15:08:00
7	ZZZZZ	Unknown	ZZZZZ	1.060	5.00	5	09/22/2009 16:15:25
8	ZZZZZ	Unknown	ZZZZZ	1.060	50.00	5	09/22/2009 17:22:46
9	CCC Std 122 ng/mL	Unknown	CCCS0922B	1.000	1.00	1	09/22/2009 18:30:15
10	ZZZZZ	Unknown	ZZZZZ	0.860	5.00	5	09/22/2009 23:17:10
11	CCC Std 122 ng/mL	Unknown	CCCS0922C	1.000	1.00	1	09/23/2009 01:32:15
12	METHOD BLANK	Unknown	AM17225B	8.000	5.00	5	09/23/2009 02:39:48
13	LAB CONTROL SPIKE	Unknown	AM17225L	8.000	5.00	5	09/23/2009 03:47:13
14	ZZZZZ	Unknown	ZZZZZ	8.600	5.00	5	09/23/2009 06:02:04
15	CCC Std 122 ng/mL	Unknown	CCCS0922D	1.000	1.00	1	09/23/2009 08:17:00



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Sample Set Name: GC16\_092309a  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 09/23/2009 12:46:26  
Date Printed: 09/25/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	METHOD BLANK	Unknown	AM17250B	1.000	5.00	5	09/23/2009 12:46:26
2	LAB CONTROL SPIKE	Unknown	AM17250L	1.000	5.00	5	09/23/2009 13:53:53
3	ZZZZZ	Unknown	ZZZZZ	1.060	5.00	5	09/23/2009 15:01:21
4	ZZZZZ	Unknown	ZZZZZ	1.060	50.00	5	09/23/2009 16:08:47
5	ZZZZZ	Unknown	ZZZZZ	0.970	5.00	5	09/23/2009 17:16:16
6	ZZZZZ	Unknown	ZZZZZ	0.970	50.00	5	09/23/2009 18:23:43
7	ZZZZZ	Unknown	ZZZZZ	1.040	5.00	5	09/23/2009 19:31:14
8	ZZZZZ	Unknown	ZZZZZ	1.040	50.00	5	09/23/2009 20:38:44
9	CCC Std 122 ng/mL	Unknown	CCCS0923A	1.000	1.00	1	09/23/2009 21:46:16
10	CCC Std 122 ng/mL	Unknown	CCCS0923B	1.000	1.00	1	09/24/2009 01:08:47
11	ZZZZZ	Unknown	ZZZZZ	0.830	5.00	5	09/24/2009 02:16:19
12	ZZZZZ	Unknown	ZZZZZ	0.830	50.00	5	09/24/2009 03:23:51
13	ZZZZZ	Unknown	ZZZZZ	1.060	5.00	5	09/24/2009 04:31:21
14	ZZZZZ	Unknown	ZZZZZ	1.060	50.00	5	09/24/2009 05:38:48



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Sample Set Name: GC16\_092409C  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 09/24/2009 07:53:43  
Date Printed: 09/25/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	WFF-THIS-090923-BT001	Unknown	AM17391	0.990	5.00	5	09/24/2009 07:53:43
2	WFF-TIDA-090923-BT001	Unknown	AM17392	0.990	5.00	5	09/24/2009 10:08:26
3	WFF-TIDA-090923-BT001	Unknown	AM17392DL1	0.990	50.00	5	09/24/2009 11:15:50
4	CCC Std 122 ng/mL	Unknown	CCCS0924A	1.000	1.00	1	09/24/2009 12:23:19
5	WFF-THIS-090923-BT001	Unknown	AM17391DL1RR1	0.990	50.00	5	09/24/2009 13:30:52
6	CCC Std 122 ng/mL	Unknown	CCCS0924B	1.000	1.00	1	09/24/2009 14:38:19
7	ZZZZZ	Unknown	ZZZZZ	0.100	10.00	10	09/24/2009 15:45:48
8	METHOD BLANK	Unknown	AM17397B	1.000	5.00	5	09/24/2009 16:53:22
9	LAB CONTROL SPIKE	Unknown	AM17397L	1.000	5.00	5	09/24/2009 18:00:53
10	ZZZZZ	Unknown	ZZZZZ	1.040	5.00	5	09/24/2009 19:08:18
11	ZZZZZ	Unknown	ZZZZZ	1.040	50.00	5	09/24/2009 20:15:43
12	ZZZZZ	Unknown	ZZZZZ	1.060	5.00	5	09/24/2009 21:23:10
13	ZZZZZ	Unknown	ZZZZZ	1.060	50.00	5	09/24/2009 22:30:41
14	CCC Std 122 ng/mL	Unknown	CCCS0924C	1.000	1.00	1	09/24/2009 23:38:12



Project Name: GC16\_May\_2009

Sample Set Name: GC16\_092209c

Date Printed: 09/25/2009

**Operating Conditions Gas Chromatography**

User Name: Keith Friedman

Injection Method: Splitless

Sample Size: 0.5 uL

Column Type: Capillary

**Temperature Information**

Column Temperature: Program

Injector Temperature: 300 °C

Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min

Temperature Program: 15 °C/min

Intermediate Temperature: 150 °C

Temperature Program: 4.3 °C/min

Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: Agilent DB-1; 30 meter; 0.25 micron phase thickness

Material: Fused Silica

Length: 30 meter

Internal Diameter: 0.25 mm

Carrier Gas: Helium

Make-up Gas: Nitrogen

Flow Pressure: 28.8 psi

Make-up Flow: 65 mL/min

Split Ratio: None

**Detector Information**

Detector Name: Detector 1 GC16

Detector Type: ECD

Detector Range: 3



Project Name: GC16\_May\_2009

Sample Set Name: GC16\_092309a

Date Printed: 09/25/2009

**Operating Conditions Gas Chromatography**

User Name: Keith Friedman

Injection Method: Splitless

Sample Size: 0.5 uL

Column Type: Capillary

**Temperature Information**

Column Temperature: Program

Injector Temperature: 300 °C

Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min

Temperature Program: 15 °C/min

Intermediate Temperature: 150 °C

Temperature Program: 4.3 °C/min

Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: Agilent DB-1; 30 meter; 0.25 micron phase thickness

Material: Fused Silica

Length: 30 meter

Internal Diameter: 0.25 mm

Carrier Gas: Helium

Make-up Gas: Nitrogen

Flow Pressure: 28.8 psi

Make-up Flow: 65 mL/min

Split Ratio: None

**Detector Information**

Detector Name: Detector 1 GC16

Detector Type: ECD

Detector Range: 3



Project Name: GC16\_May\_2009

Sample Set Name: GC16\_092409C

Date Printed: 09/25/2009

**Operating Conditions Gas Chromatography**

User Name: Amy Jo Arndt

Injection Method: Splitless

Sample Size: 0.5 uL

Column Type: Capillary

**Temperature Information**

Column Temperature: Program

Injector Temperature: 300 °C

Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C                      Hold: 2.5 min

Temperature Program: 15 °C/min

Intermediate Temperature: 150 °C

Temperature Program: 4.3 °C/min

Final Temperature: 220 °C                      Hold: 35.1 min

**Column Information**

Column ID: Agilent DB-1; 30 meter; 0.25 micron phase thickness

Material: Fused Silica

Length: 30 meter

Internal Diameter: 0.25 mm

Carrier Gas: Helium

Make-up Gas: Nitrogen

Flow Pressure: 28.8 psi

Make-up Flow: 65 mL/min

Split Ratio: None

**Detector Information**

Detector Name: Detector 1 GC16

Detector Type: ECD

Detector Range: 3

# Sample GC Injection Log (GC-24)



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Set Name: GC24\_CC\_090509  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 9/5/2009 2:45:04 AM EDT  
Current Date: 9/18/2009  
Report Name: CSGB\_SSReport

### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090905B01	1.000	1.00	1	9/5/2009 2:50:31 AM EDT
2	HEXANE BLANK	Unknown	090905B02	1.000	1.00	1	9/5/2009 3:56:00 AM EDT
3	ICAL 6.25 ng/mL	Standard	ICAL0905A	1.000	1.00	1	9/5/2009 5:01:29 AM EDT
4	ICAL 12.5 ng/mL	Standard	ICAL0905B	1.000	1.00	1	9/5/2009 6:06:56 AM EDT
5	ICAL 125 ng/mL	Standard	ICAL0905C	1.000	1.00	1	9/5/2009 7:12:23 AM EDT
6	ICAL 314 ng/mL	Standard	ICAL0905D	1.000	1.00	1	9/5/2009 8:17:51 AM EDT
7	ICAL 627 ng/mL	Standard	ICAL0905E	1.000	1.00	1	9/5/2009 9:23:21 AM EDT
8	HEXANE BLANK	Unknown	090905B03	1.000	1.00	1	9/5/2009 10:28:50 AM EDT
9	SUP CONG STD 200/5 ng/mL	Standard	SC0905A	1.000	1.00	1	9/5/2009 11:34:20 AM EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0905A	1.000	1.00	1	9/5/2009 12:40:05 PM EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0905B	1.000	1.00	1	9/5/2009 1:45:34 PM EDT
12	Surr TCMX/DCBP 5/50 ppb	Standard	TD0905A	1.000	1.00	1	9/5/2009 2:51:02 PM EDT
13	HEXANE BLANK	Unknown	090905B04	1.000	1.00	1	9/5/2009 3:56:30 PM EDT
14	CCC Std 122 ng/mL	Unknown	CCCS0905A	1.000	1.00	1	9/5/2009 5:01:55 PM EDT



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Sample Set Name: GC24\_092309c  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 09/23/2009 23:19:29  
Date Printed: 11/01/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	METHOD BLANK	Unknown	AM17120B	1.000	10.00	10	09/23/2009 23:19:29
2	LAB CONTROL SPIKE	Unknown	AM17120L	1.000	10.00	10	09/24/2009 00:25:04
3	ZZZZZ	Unknown	ZZZZZ	0.990	30.00	10	09/24/2009 01:30:38
4	ZZZZZ	Unknown	ZZZZZ	0.990	300.00	10	09/24/2009 02:36:12
5	ZZZZZ	Unknown	ZZZZZ	0.990	20.00	10	09/24/2009 03:41:43
6	ZZZZZ	Unknown	ZZZZZ	0.990	500.00	10	09/24/2009 04:47:15
7	CCC Std 122 ng/mL	Unknown	CCCS0923A	1.000	1.00	1	09/24/2009 05:52:46
8	WFF-LOC5-090923-BT001	Unknown	AM17389	0.990	5.00	5	09/24/2009 06:58:18
9	WFF-LOC5-090923-BT001	Unknown	AM17389DL1	0.990	50.00	5	09/24/2009 08:03:49
10	WFF-SCHU-090923-BT001	Unknown	AM17390	0.980	5.00	5	09/24/2009 09:09:36
11	WFF-SCHU-090923-BT001	Unknown	AM17390DL1	0.980	50.00	5	09/24/2009 10:15:07
12	CCC Std 122 ng/mL	Unknown	CCCS0923B	1.000	1.00	1	09/24/2009 12:12:33
13	ZZZZZ	Unknown	ZZZZZ	0.980	5.00	5	09/24/2009 13:18:05
14	ZZZZZ	Unknown	ZZZZZ	0.980	50.00	5	09/24/2009 14:23:37
15	ZZZZZ	Unknown	ZZZZZ	8.000	5.00	5	09/24/2009 15:29:08
16	CCC Std 122 ng/mL	Unknown	CCCS0924A	1.000	1.00	1	09/24/2009 17:40:13
17	ZZZZZ	Unknown	ZZZZZ	0.950	5.00	5	09/24/2009 21:08:28
18	CCC Std 122 ng/mL	Unknown	CCCS0924B	1.000	1.00	1	09/24/2009 23:19:34



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Project Name: GC24\_Mar\_2009

Sample Set Name: GC24\_092309c

Date Printed: 11/01/2009

### Operating Conditions Gas Chromatography

User Name: Keith Friedman

Injection Method: Splitless

Sample Size: 1.0 uL

Column Type: Capillary

### Temperature Information

Column Temperature: Program

Injector Temperature: 300 °C

Detector Temperature: 300 °C

### Column Temperature Information

Initial Temperature: 50 °C Hold: 2.5 min

Temperature Program: 15 °C/min

Intermediate Temperature: 150 °C

Temperature Program: 4.3 °C/min

Final Temperature: 220 °C Hold: 35.1 min

### Column Information

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

Material: Fused Silica

Length: 30 meter

Internal Diameter: 0.25 mm

Carrier Gas: Helium

Make-up Gas: Nitrogen

Flow Pressure: 27.0psi

Make-up Flow: 65 mL/min

Split Ratio: None

### Detector Information

Detector Name:

Detector Type: ECD

Detector Range: 4

# Standards Summary Tables (GC-16)



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**Phone: (518) 346-4592 Fax: (518) 381-6055**  
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Sample Set Name: GC16\_CC\_082309  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 08/23/2009 02:05:02 EDT  
Current Date: 09/02/2009  
Report Name: CSGB\_SumRpt\_OCNArea

**ICAL OCN Area Summary Report**

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0823A	ICAL 6.25 ng/mL	08/23/2009 04:27:16 EDT	168429
2	ICAL0823B	ICAL 12.5 ng/mL	08/23/2009 05:34:46 EDT	159698
3	ICAL0823C	ICAL 125 ng/mL	08/23/2009 06:42:13 EDT	170177
4	ICAL0823D	ICAL 314 ng/mL	08/23/2009 07:49:33 EDT	173183
5	ICAL0823E	ICAL 627 ng/mL	08/23/2009 08:56:52 EDT	165807
Mean				167459



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System Name: Instrument\_16 Date Calibrated: 08/24/2009 13:26:35 EDT,  
 Sample Set Name: GC16\_CC\_082309 Method Report: CSGB CCSum by RF  
 Sample Set Date: 08/23/2009 02:05:02 EDT User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309

**Calibration Component Summary Table  
 Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)
1	ICAL0823A	0.029632		0.015881	0.060102	0.346398	0.261754	0.101880			
2	ICAL0823B	0.032835		0.016975	0.058221	0.423230	0.295591	0.131906		0.384454	
3	ICAL0823C	0.029210		0.016147	0.068134	0.479796	0.226028	0.122440		0.396596	
4	ICAL0823D	0.028105		0.014452	0.057309	0.453855	0.218794	0.114890		0.381476	
5	ICAL0823E				0.061254					0.341546	
6	SC0823A		0.002899						0.176869		0.665040
Mean		0.030	0.003	0.016	0.061	0.426	0.251	0.118	0.177	0.376	0.665
Std. Dev.		0.002		0.001	0.004	0.058	0.035	0.013		0.024	
% RSD		6.78		6.62	7.01	13.57	14.14	10.77		6.35	

**Calibration Component Summary Table  
 Component Summary For RF**

	12 (11)	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)
1			0.383997	0.158294	0.568224	0.328924			0.350888	0.705294	0.613919
2		0.245194	0.382202	0.186421	0.541246	0.357916		0.619883	0.401916	0.647251	0.552787
3		0.277784	0.395495	0.194169	0.535960	0.333910		0.712928	0.453098	0.728734	0.533093
4		0.287784	0.375045	0.181353	0.569882	0.315497		0.668511	0.424895	0.620919	0.512021
5					0.556099						
6	0.064897						0.396913				
Mean	0.065	0.270	0.384	0.180	0.554	0.334	0.397	0.667	0.408	0.676	0.553
Std. Dev.		0.022	0.008	0.015	0.015	0.018		0.047	0.043	0.050	0.044
% RSD		8.24	2.21	8.57	2.78	5.30		6.98	10.61	7.40	7.94

**Calibration Component Summary Table  
 Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
1	0.586455	0.496963	0.368009	0.484763		0.492024		0.334493	0.619104	1.370859
2	0.612478	0.499220	0.492274	0.501787		0.526016		0.386396	0.773561	1.209542
3	0.596122	0.455367	0.413615	0.501694		0.490549		0.378059	0.733789	1.017967
4	0.560491	0.442032	0.407109	0.507222		0.454125		0.355374	0.694636	0.951170
5										
6					0.301528		0.298422			
Mean	0.589	0.473	0.420	0.499	0.302	0.491	0.298	0.364	0.705	1.137

**Calibration Component Summary Table  
Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
Std. Dev.	0.022	0.029	0.052	0.010		0.029		0.023	0.066	0.190
% RSD	3.70	6.14	12.39	1.95		5.98		6.44	9.34	16.73

**Calibration Component Summary Table  
Component Summary For RF**

	34 (48,75)	35 (62,65)	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)
1	0.835028			0.566170	0.458944	0.728777		0.509631		
2	0.797278			0.599105	0.462088	0.768393		0.508090		0.707261
3	0.783002			0.581960	0.467121	0.732026		0.605440		0.717802
4	0.704106			0.536620	0.450655	0.692542		0.598785		0.793915
5										
6		0.787266	0.281286				0.443464		0.605790	
Mean	0.780	0.787	0.281	0.571	0.460	0.730	0.443	0.555	0.606	0.740
Std. Dev.	0.055			0.027	0.007	0.031		0.054		0.047
% RSD	7.06			4.65	1.50	4.24		9.71		6.39

**Calibration Component Summary Table  
Component Summary For RF**

	45 (63)	46 (74,94,61)	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)
1	0.932380	0.937655	0.861708		0.604556	0.604177	0.851587	0.295758
2	0.798336	1.002220	0.838909		0.569632	0.582925	0.882795	0.314144
3	0.876852	1.029904	0.850054		0.569828	0.700596	0.832386	0.341422
4	0.812281	0.989533	0.799532		0.534135	0.671497	0.800105	0.319375
5								
6								
Mean	0.855	0.990	0.838		0.570	0.640	0.842	0.318
Std. Dev.	0.062	0.039	0.027		0.029	0.055	0.035	0.019
% RSD	7.24	3.90	3.22		5.05	8.66	4.12	5.92

**Calibration Component Summary Table  
Component Summary For RF**

	53 (90,101)	54 (79,99,113)	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)
1	0.612615	1.074533			0.788377		0.747611
2	0.644667	0.951802	1.818614	0.593047	0.885705	0.822042	0.930743
3	0.738803	1.140390	2.131712	0.724203	1.058072	0.804478	0.975828
4	0.681254	1.083548	1.826349	0.680132	0.947302	0.741962	0.940917
5							
6							
Mean	0.669	1.063	1.926	0.666	0.920	0.769	0.899
Std. Dev.	0.054	0.079	0.179	0.067	0.113	0.054	0.103
% RSD	8.09	7.47	9.27	10.02	12.28	7.01	11.42

**Calibration Component Summary Table  
Component Summary For RF**

	60 (120,136)	61 (77,110,148)	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)
1	0.669671	0.641252		1.016927	0.825962	1.454327	0.458432		
2	0.745420	0.630980		1.134854	0.818899	1.487540	0.515840	0.690004	
3	0.800029	0.734106		1.051477	0.815021	1.406136	0.515858	0.711530	
4	0.757777	0.683526		0.900550	0.759250	1.244419	0.500279	0.770566	
5									
6			0.711303						0.769564
Mean	0.743	0.672	0.711	1.026	0.805	1.398	0.498	0.724	0.770
Std. Dev.	0.054	0.047		0.097	0.031	0.108	0.027	0.042	
% RSD	7.31	6.98		9.47	3.81	7.71	5.45	5.76	

**Calibration Component Summary Table  
Component Summary For RF**

	69 (106,118,139,149)	70 (140)	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)
1	0.917208		1.106105		0.926113	1.123619	1.062408
2	0.884858		1.022079	1.909577	0.909918	1.108849	1.137977
3	0.914679		1.117389	2.188855	1.090203	1.153027	1.126951
4	0.840525		0.947250	2.009293	0.939225	1.082338	1.031638
5							
6		0.813822					
Mean	0.889	0.814	1.048	2.036	0.966	1.117	1.090
Std. Dev.	0.036		0.080	0.142	0.083	0.029	0.051
% RSD	4.01		7.59	6.95	8.63	2.64	4.69

**Calibration Component Summary Table  
Component Summary For RF**

	76 (127,168,184)	77 (141)	78 (179)	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)
1		0.656338	0.726963		1.894839	1.246194	1.557575		0.475544
2		0.660579	0.870319	0.881047	1.943213	0.892152	1.451698	6.007449	0.532805
3		0.720416	0.910090	0.852217	2.019416	1.010861	1.358386	7.182843	0.574829
4		0.645898	0.789843	0.835262	1.732219	0.949063	1.188130	7.071409	0.533033
5									
6	0.662615								
Mean	0.663	0.671	0.824	0.856	1.897	1.025	1.389	6.754	0.529
Std. Dev.		0.034	0.082	0.023	0.121	0.156	0.157	0.649	0.041
% RSD		5.02	9.94	2.70	6.40	15.18	11.28	9.61	7.71

**Calibration Component Summary Table  
Component Summary For RF**

	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
1		1.073924		0.818987		1.509153	1.045167	0.916464	0.647711	7.382299
2	0.581956	1.068903	1.389781	0.763510	1.558518	1.367680	0.961705	0.744351	0.885260	6.985274
3	0.734180	0.986819	1.772792	0.981578	1.865307	1.428605	0.953185	0.853863	0.909689	6.297338
4	0.651759	0.935849	1.554016	0.902713	1.782484	1.314779	0.908188	0.801864	0.866166	6.033590

**Calibration Component Summary Table  
Component Summary For RF**

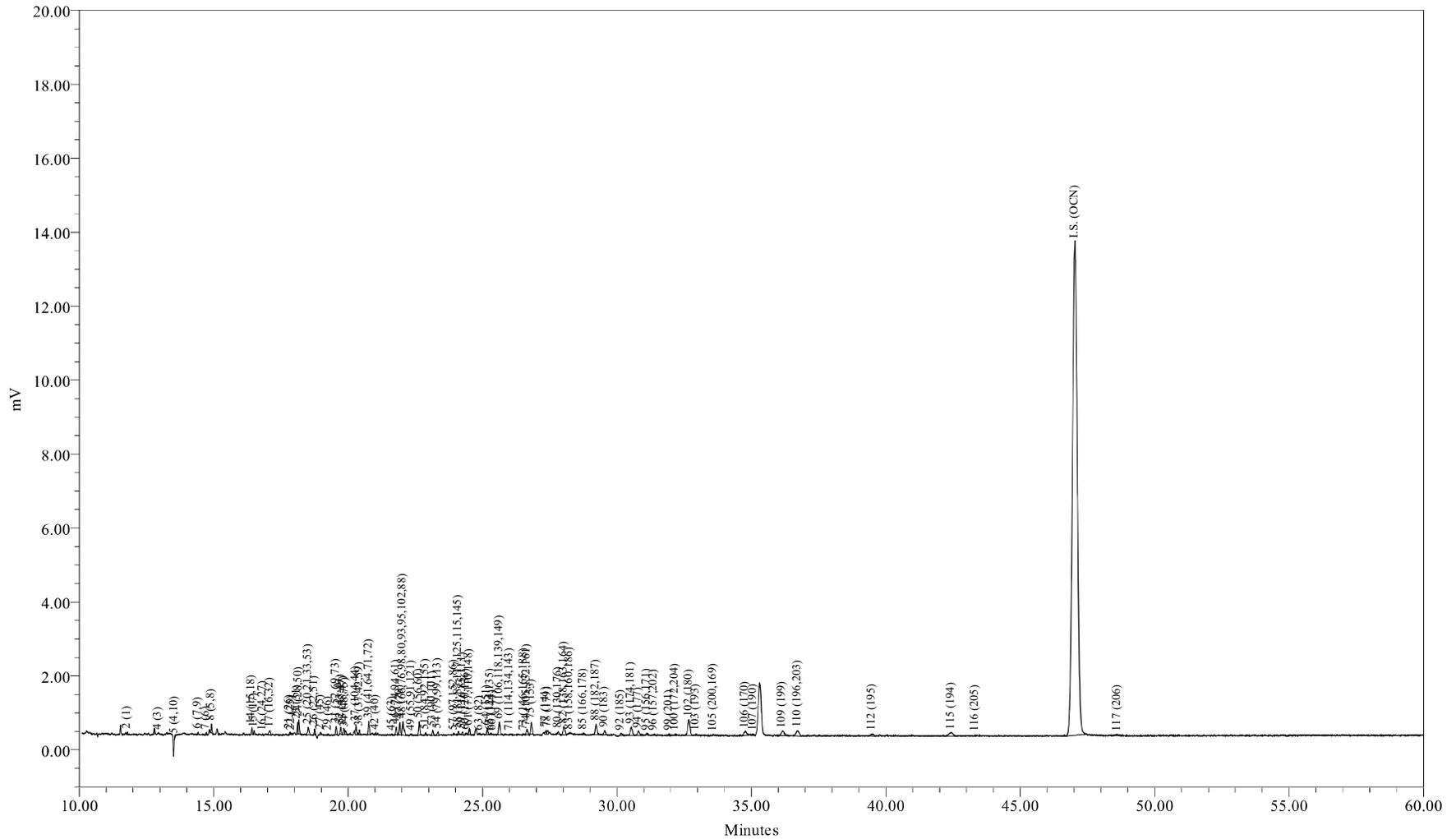
	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
5										
6										
Mean	0.656	1.016	1.572	0.867	1.735	1.405	0.967	0.829	0.827	6.675
Std. Dev.	0.076	0.067	0.192	0.096	0.159	0.084	0.057	0.073	0.121	0.619
% RSD	11.62	6.58	12.22	11.03	9.15	5.95	5.91	8.85	14.63	9.28

**Calibration Component Summary Table  
Component Summary For RF**

	98 (173)	99 (201)	100 (172,204)	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)
1		0.895254	0.919050		1.166489	0.888579		0.751066	1.746600	1.308494
2	1.489567	0.853033	0.874241	0.880843	1.181870	0.882562	0.882789	0.985890	1.717970	1.276878
3	1.476009	0.856582	0.819298	0.854574	1.088211	0.908205	0.926962	0.903351	1.620384	1.358495
4	1.218267	0.801005	0.785456	0.777560	1.036246	0.855976	0.899561	0.903833	1.580043	1.340224
5										
6										
Mean	1.395	0.851	0.850	0.838	1.118	0.884	0.903	0.886	1.666	1.321
Std. Dev.	0.153	0.039	0.059	0.054	0.068	0.022	0.022	0.098	0.079	0.036
% RSD	10.96	4.54	6.95	6.41	6.11	2.44	2.47	11.06	4.73	2.72

**Calibration Component Summary Table  
Component Summary For RF**

	108 (198)	109 (199)	110 (196,203)	111 (189)	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1		0.622931	0.776259		1.946851			1.671979	0.743385	1.029802	
2	1.621528	0.625734	0.728915	1.439485	1.564712	0.664993	1.202962	1.782264	0.882512	1.440221	1.033291
3	1.334339	0.639792	0.690651	1.522675	1.812150	0.691812	1.252099	1.469936	0.898096	1.431730	0.943801
4	1.282073	0.605368	0.659811	1.355694	1.752089	0.616906	1.321091	1.416871	0.892335	1.336120	1.157604
5											
6											
Mean	1.413	0.623	0.714	1.439	1.769	0.658	1.259	1.585	0.854	1.309	1.045
Std. Dev.	0.183	0.014	0.050	0.083	0.159	0.038	0.059	0.171	0.074	0.192	0.107
% RSD	12.94	2.27	7.04	5.80	8.97	5.77	4.71	10.80	8.67	14.69	10.28



Sample Name: ICAL0823A  
Sample ID: ICAL 6.25 ng/mL  
Date Acquired: 08/23/2009 04:27:16 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-3

Sample Name: ICAL0823A

1 of 1



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Sample Name: ICAL0823A Sample Amount: 1  
 Sample ID: ICAL 6.25 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 04:27:16 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:22 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:06:33 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-3

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	120	0.439	0.439	0.029632
2	3 (2)	12.830				
3	4 (3)	12.937	38	0.256	0.256	0.015881
4	5 (4,10)	13.550	69	0.124	0.124	0.060102
5	6 (7,9)	14.424	141	0.044	0.044	0.346398
6	7 (6)	14.733	168	0.069	0.069	0.261754
7	8 (5,8)	14.917	483	0.512	0.512	0.101880
8	9 (14)	15.480				
9	10 (19)	15.557				
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.290				
13	14 (15,18)	16.422	481	0.135	0.135	0.383997
14	15 (17)	16.507	198	0.135	0.135	0.158294
15	16 (24,27)	16.823	50	0.009	0.009	0.568224
16	17 (16,32)	17.098	434	0.143	0.143	0.328924
17	19 (23,34,54)	17.532				
18	20 (29)	17.713				
19	21 (26)	17.822	86	0.026	0.026	0.350888
20	22 (25)	17.904	76	0.012	0.012	0.705294
21	23 (31)	18.116	857	0.151	0.151	0.613919
22	24 (28,50)	18.169	1048	0.193	0.193	0.586455
23	25 (20,21,33,53)	18.518	668	0.145	0.145	0.496963
24	26 (22,51)	18.756	361	0.106	0.106	0.368009
25	27 (45)	18.983	146	0.033	0.033	0.484763
26	28 (36)	19.120				
27	29 (46)	19.263	67	0.015	0.015	0.492024
28	30 (39)	19.386				

**Peak Results**

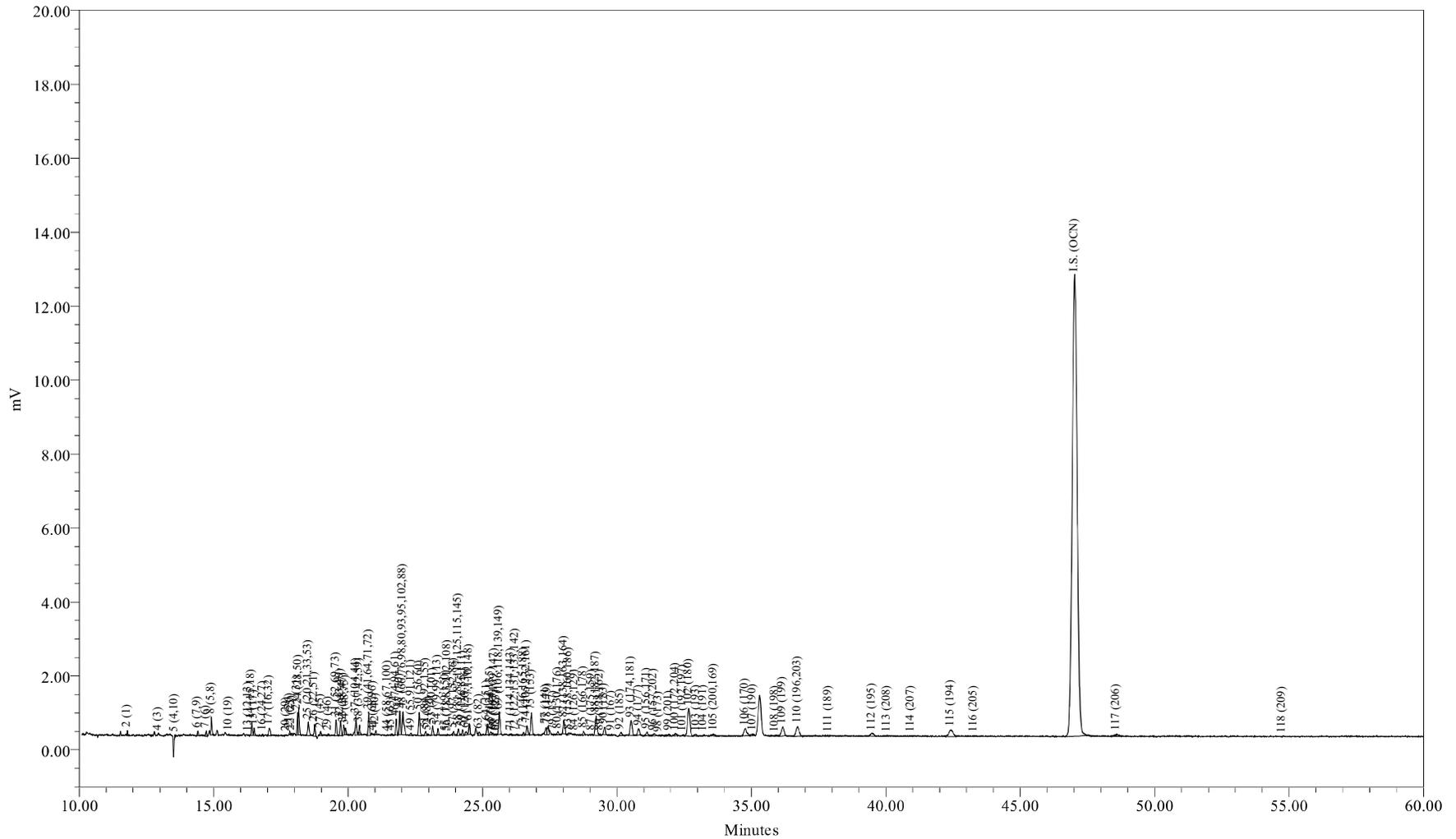
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.556	540	0.174	0.174	0.334493
30	32 (43,49)	19.725	482	0.084	0.084	0.619104
31	33 (38,47)	19.839	464	0.037	0.037	1.370859
32	34 (48,75)	19.888	283	0.037	0.037	0.835028
33	35 (62,65)	20.043				
34	36 (35)	20.126				
35	37 (104,44)	20.293	824	0.157	0.157	0.566170
36	38 (37,42,59)	20.427	404	0.095	0.095	0.458944
37	39 (41,64,71,72)	20.773	1012	0.150	0.150	0.728777
38	41 (68,96)	20.934				
39	42 (40)	21.031	162	0.034	0.034	0.509631
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.455				
42	45 (63)	21.638	66	0.008	0.008	0.932380
43	46 (74,94,61)	21.794	603	0.069	0.069	0.937655
44	47 (70)	21.925	992	0.124	0.124	0.861708
45	48 (66,76,98,80,93,95,102,88)	22.042	1474	0.263	0.263	0.604556
46	49 (55,91,121)	22.362	104	0.019	0.019	0.604177
47	50 (56,60)	22.648	1009	0.128	0.128	0.851587
48	51 (84,92,155)	22.886	180	0.066	0.066	0.295758
49	52 (89)	22.984				
50	53 (90,101)	23.144	373	0.066	0.066	0.612615
51	54 (79,99,113)	23.344	269	0.027	0.027	1.074533
52	55 (119,150)	23.613				
53	56 (78,83,112,108)	23.706				
54	57 (97,152,86)	23.936	149	0.020	0.020	0.788377
55	58 (81,87,117,125,115,145)	24.099	277	0.042	0.042	0.706397
56	59 (116,85,111)	24.257	177	0.026	0.026	0.747611
57	60 (120,136)	24.388	170	0.027	0.027	0.669671
58	61 (77,110,148)	24.513	462	0.078	0.078	0.641252
59	62 (154)	24.788				
60	63 (82)	24.889	151	0.016	0.016	1.016927
61	64 (151)	25.175	475	0.062	0.062	0.825962
62	65 (124,135)	25.294	143	0.011	0.011	1.454327
63	66 (144)	25.383	93	0.022	0.022	0.458432
64	67 (107,109,147)	25.438				
65	68 (123)	25.528				
66	69 (106,118,139,149)	25.625	1242	0.146	0.146	0.917208
67	70 (140)	25.741				
68	71 (114,134,143)	26.015	76	0.007	0.007	1.106105

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.233				
70	73 (146,165,188)	26.540	122	0.014	0.014	0.926113
71	74 (105,132,161)	26.658	515	0.050	0.050	1.123619
72	75 (153)	26.816	1059	0.108	0.108	1.062408
73	76 (127,168,184)	26.932				
74	77 (141)	27.355	378	0.062	0.062	0.656338
75	78 (179)	27.427	359	0.053	0.053	0.726963
76	79 (137)	27.645				
77	80 (130,176)	27.815	167	0.009	0.009	1.894839
78	82 (138,163,164)	28.029	1139	0.099	0.099	1.246194
79	83 (158,160,186)	28.235	132	0.009	0.009	1.557575
80	84 (126,129)	28.423				
81	85 (166,178)	28.760	177	0.040	0.040	0.475544
82	87 (175,159)	29.078				
83	88 (182,187)	29.221	1309	0.132	0.132	1.073924
84	89 (128,162)	29.355				
85	90 (183)	29.548	471	0.062	0.062	0.818987
86	91 (167)	29.825				
87	92 (185)	30.147	240	0.017	0.017	1.509153
88	93 (174,181)	30.531	1132	0.117	0.117	1.045167
89	94 (177)	30.799	528	0.062	0.062	0.916464
90	95 (156,171)	31.115	173	0.029	0.029	0.647711
91	96 (157,202)	31.385	165	0.002	0.002	7.382299
92	98 (173)	31.545				
93	99 (201)	31.942	118	0.014	0.014	0.895254
94	100 (172,204)	32.169	174	0.020	0.020	0.919050
95	101 (192,197)	32.480				
96	102 (180)	32.676	2409	0.223	0.223	1.166489
97	103 (193)	32.942	126	0.015	0.015	0.888579
98	104 (191)	33.226				
99	105 (200,169)	33.581	109	0.016	0.016	0.751066
100	106 (170)	34.773	757	0.047	0.047	1.746600
101	107 (190)	35.080	186	0.015	0.015	1.308494
102	108 (198)	35.919				
103	109 (199)	36.156	886	0.154	0.154	0.622931
104	110 (196,203)	36.718	1130	0.157	0.157	0.776259
105	111 (189)	37.898				
106	112 (195)	39.487	364	0.020	0.020	1.946851
107	113 (208)	40.015				
108	114 (207)	40.966				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.442	1019	0.066	0.066	1.671979
110	116 (205)	43.330	28	0.004	0.004	0.743385
111	I.S. (OCN)	47.034	168429	18.180	18.180	9264.517093
112	117 (206)	48.611	237	0.025	0.025	1.029802
113	118 (209)	54.729				



Sample Name: ICAL0823B  
Sample ID: ICAL 12.5 ng/mL  
Date Acquired: 08/23/2009 05:34:46 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-4

Sample Name: ICAL0823B

1 of 1



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0823B Sample Amount: 1  
 Sample ID: ICAL 12.5 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 05:34:46 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:24 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:06:44 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-4

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	253	0.877	0.877	0.032835
2	3 (2)	12.830				
3	4 (3)	12.936	76	0.512	0.512	0.016975
4	5 (4,10)	13.556	127	0.249	0.249	0.058221
5	6 (7,9)	14.408	326	0.088	0.088	0.423230
6	7 (6)	14.728	361	0.139	0.139	0.295591
7	8 (5,8)	14.915	1186	1.023	1.023	0.131906
8	9 (14)	15.480				
9	10 (19)	15.563	69	0.020	0.020	0.384454
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.297	42	0.020	0.020	0.245194
13	14 (15,18)	16.421	908	0.270	0.270	0.382202
14	15 (17)	16.505	443	0.270	0.270	0.186421
15	16 (24,27)	16.825	90	0.019	0.019	0.541246
16	17 (16,32)	17.070	896	0.285	0.285	0.357916
17	19 (23,34,54)	17.532				
18	20 (29)	17.706	21	0.004	0.004	0.619883
19	21 (26)	17.829	186	0.053	0.053	0.401916
20	22 (25)	17.903	133	0.023	0.023	0.647251
21	23 (31)	18.115	1463	0.301	0.301	0.552787
22	24 (28,50)	18.165	2075	0.386	0.386	0.612478
23	25 (20,21,33,53)	18.521	1273	0.290	0.290	0.499220
24	26 (22,51)	18.754	917	0.212	0.212	0.492274
25	27 (45)	18.976	287	0.065	0.065	0.501787
26	28 (36)	19.120				
27	29 (46)	19.264	135	0.029	0.029	0.526016
28	30 (39)	19.386				

**Peak Results**

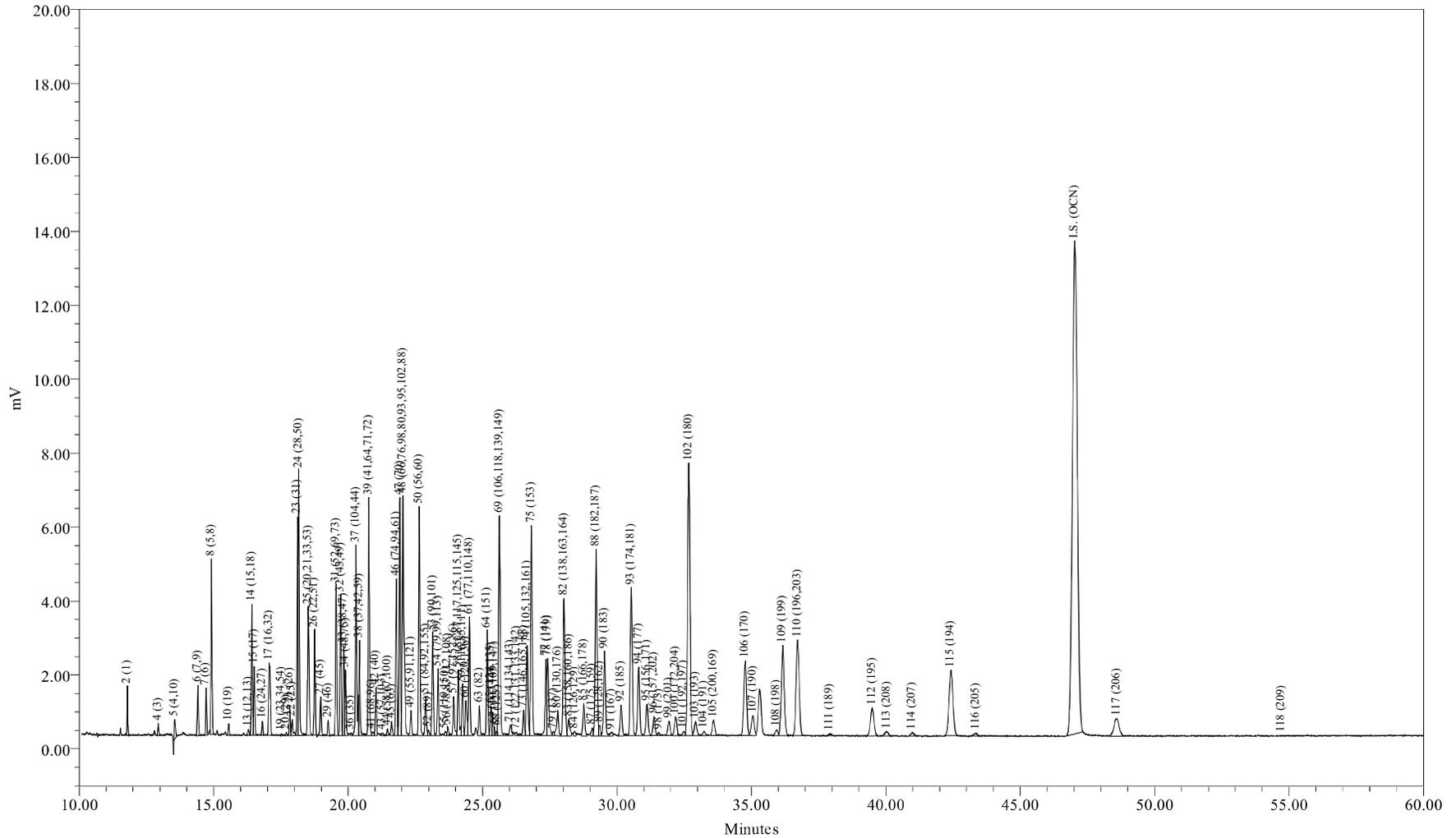
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552	1183	0.349	0.349	0.386396
30	32 (43,49)	19.719	1142	0.168	0.168	0.773561
31	33 (38,47)	19.834	777	0.073	0.073	1.209542
32	34 (48,75)	19.897	512	0.073	0.073	0.797278
33	35 (62,65)	20.043				
34	36 (35)	20.126				
35	37 (104,44)	20.292	1654	0.314	0.314	0.599105
36	38 (37,42,59)	20.424	771	0.190	0.190	0.462088
37	39 (41,64,71,72)	20.769	2023	0.300	0.300	0.768393
38	41 (68,96)	20.934	19			
39	42 (40)	21.032	307	0.069	0.069	0.508090
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.465	50	0.008	0.008	0.707261
42	45 (63)	21.615	108	0.015	0.015	0.798336
43	46 (74,94,61)	21.789	1223	0.139	0.139	1.002220
44	47 (70)	21.921	1831	0.249	0.249	0.838909
45	48 (66,76,98,80,93,95,102,88)	22.040	2633	0.526	0.526	0.569632
46	49 (55,91,121)	22.351	191	0.037	0.037	0.582925
47	50 (56,60)	22.649	1984	0.256	0.256	0.882795
48	51 (84,92,155)	22.880	363	0.132	0.132	0.314144
49	52 (89)	22.969	43	0.007	0.007	0.673304
50	53 (90,101)	23.139	745	0.132	0.132	0.644667
51	54 (79,99,113)	23.337	452	0.054	0.054	0.951802
52	55 (119,150)	23.638	33	0.002	0.002	1.818614
53	56 (78,83,112,108)	23.701	57	0.011	0.011	0.593047
54	57 (97,152,86)	23.925	318	0.041	0.041	0.885705
55	58 (81,87,117,125,115,145)	24.101	612	0.085	0.085	0.822042
56	59 (116,85,111)	24.253	418	0.051	0.051	0.930743
57	60 (120,136)	24.386	359	0.055	0.055	0.745420
58	61 (77,110,148)	24.507	863	0.156	0.156	0.630980
59	62 (154)	24.788				
60	63 (82)	24.871	321	0.032	0.032	1.134854
61	64 (151)	25.171	894	0.124	0.124	0.818899
62	65 (124,135)	25.301	277	0.021	0.021	1.487540
63	66 (144)	25.374	199	0.044	0.044	0.515840
64	67 (107,109,147)	25.442	58	0.009	0.009	0.690004
65	68 (123)	25.525	28			
66	69 (106,118,139,149)	25.622	2273	0.292	0.292	0.884858
67	70 (140)	25.741				
68	71 (114,134,143)	26.054	133	0.015	0.015	1.022079

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.226	36	0.002	0.002	1.909577
70	73 (146,165,188)	26.536	228	0.029	0.029	0.909918
71	74 (105,132,161)	26.652	965	0.099	0.099	1.108849
72	75 (153)	26.819	2152	0.215	0.215	1.137977
73	76 (127,168,184)	26.932				
74	77 (141)	27.358	721	0.124	0.124	0.660579
75	78 (179)	27.425	816	0.107	0.107	0.870319
76	79 (137)	27.643	42	0.005	0.005	0.881047
77	80 (130,176)	27.802	324	0.019	0.019	1.943213
78	82 (138,163,164)	28.027	1547	0.197	0.197	0.892152
79	83 (158,160,186)	28.205	233	0.018	0.018	1.451698
80	84 (126,129)	28.430	50	0.001	0.001	6.007449
81	85 (166,178)	28.757	376	0.080	0.080	0.532805
82	87 (175,159)	29.071	75	0.015	0.015	0.581956
83	88 (182,187)	29.226	2471	0.263	0.263	1.068903
84	89 (128,162)	29.379	89	0.007	0.007	1.389781
85	90 (183)	29.528	833	0.124	0.124	0.763510
86	91 (167)	29.799	49	0.004	0.004	1.558518
87	92 (185)	30.137	413	0.034	0.034	1.367680
88	93 (174,181)	30.529	1976	0.234	0.234	0.961705
89	94 (177)	30.812	812	0.124	0.124	0.744351
90	95 (156,171)	31.120	449	0.058	0.058	0.885260
91	96 (157,202)	31.371	296	0.005	0.005	6.985274
92	98 (173)	31.550	36	0.003	0.003	1.489567
93	99 (201)	31.924	214	0.029	0.029	0.853033
94	100 (172,204)	32.177	314	0.041	0.041	0.874241
95	101 (192,197)	32.456	62	0.008	0.008	0.880843
96	102 (180)	32.668	4629	0.446	0.446	1.181870
97	103 (193)	32.960	238	0.031	0.031	0.882562
98	104 (191)	33.229	68	0.009	0.009	0.882789
99	105 (200,169)	33.603	272	0.031	0.031	0.985890
100	106 (170)	34.773	1412	0.094	0.094	1.717970
101	107 (190)	35.048	344	0.031	0.031	1.276878
102	108 (198)	35.892	125	0.009	0.009	1.621528
103	109 (199)	36.163	1687	0.307	0.307	0.625734
104	110 (196,203)	36.721	2013	0.314	0.314	0.728915
105	111 (189)	37.883	37	0.003	0.003	1.439485
106	112 (195)	39.491	555	0.040	0.040	1.564712
107	113 (208)	40.056	105	0.018	0.018	0.664993
108	114 (207)	40.942	72	0.007	0.007	1.202962

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.407	2060	0.132	0.132	1.782264
110	116 (205)	43.285	62	0.008	0.008	0.882512
111	I.S. (OCN)	47.029	159698	18.180	18.180	8784.251140
112	117 (206)	48.580	629	0.050	0.050	1.440221
113	118 (209)	54.738	8	0.001	0.001	1.033291



Sample Name: ICAL0823C  
Sample ID: ICAL 125 ng/mL  
Date Acquired: 08/23/2009 06:42:13 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-5

Sample Name: ICAL0823C

1 of 1



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Sample Name: ICAL0823C Sample Amount: 1  
 Sample ID: ICAL 125 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 06:42:13 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:44:54 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:06:52 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-5

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	2398	8.771	8.771	0.029210
2	3 (2)	12.830				
3	4 (3)	12.937	773	5.117	5.117	0.016147
4	5 (4,10)	13.547	1585	2.485	2.485	0.068134
5	6 (7,9)	14.413	3939	0.877	0.877	0.479796
6	7 (6)	14.722	2938	1.389	1.389	0.226028
7	8 (5,8)	14.915	11729	10.233	10.233	0.122440
8	9 (14)	15.480				
9	10 (19)	15.559	760	0.205	0.205	0.396596
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.297	507	0.195	0.195	0.277784
13	14 (15,18)	16.422	10012	2.704	2.704	0.395495
14	15 (17)	16.508	4916	2.704	2.704	0.194169
15	16 (24,27)	16.808	953	0.190	0.190	0.535960
16	17 (16,32)	17.064	8910	2.851	2.851	0.333910
17	19 (23,34,54)	17.524	306			
18	20 (29)	17.705	259	0.039	0.039	0.712928
19	21 (26)	17.831	2232	0.526	0.526	0.453098
20	22 (25)	17.917	1596	0.234	0.234	0.728734
21	23 (31)	18.116	15038	3.014	3.014	0.533093
22	24 (28,50)	18.167	21524	3.857	3.857	0.596122
23	25 (20,21,33,53)	18.519	12375	2.903	2.903	0.455367
24	26 (22,51)	18.751	8207	2.120	2.120	0.413615
25	27 (45)	18.980	3055	0.650	0.650	0.501694
26	28 (36)	19.120				
27	29 (46)	19.257	1343	0.292	0.292	0.490549
28	30 (39)	19.386				

**Peak Results**

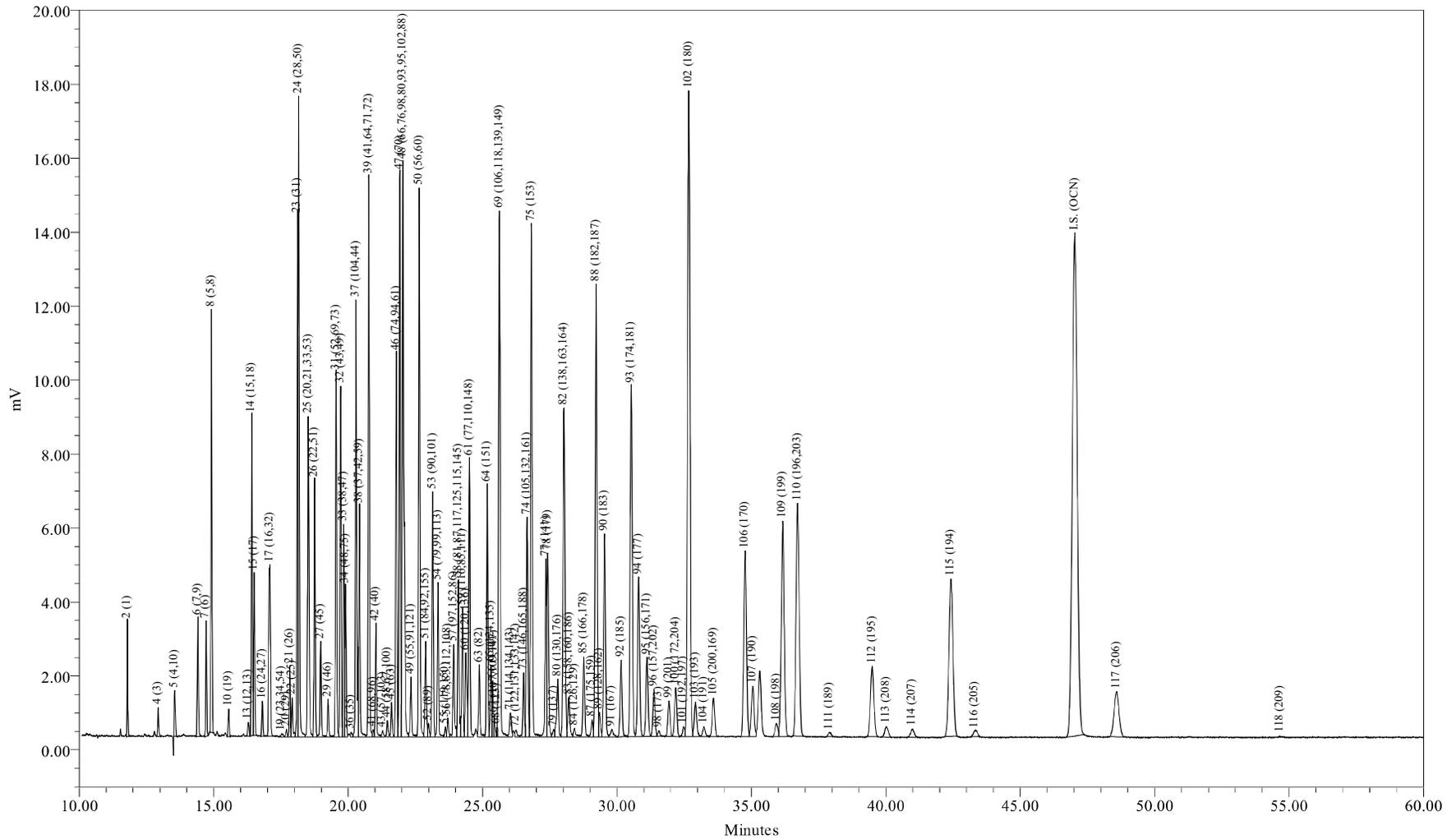
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.551	12339	3.487	3.487	0.378059
30	32 (43,49)	19.721	11548	1.681	1.681	0.733789
31	33 (38,47)	19.837	6966	0.731	0.731	1.017967
32	34 (48,75)	19.899	5358	0.731	0.731	0.783002
33	35 (62,65)	20.043				
34	36 (35)	20.114	293			
35	37 (104,44)	20.293	17122	3.143	3.143	0.581960
36	38 (37,42,59)	20.424	8310	1.901	1.901	0.467121
37	39 (41,64,71,72)	20.771	20536	2.997	2.997	0.732026
38	41 (68,96)	20.877	498			
39	42 (40)	21.034	3894	0.687	0.687	0.605440
40	43 (57,103)	21.281	371			
41	44 (58,67,100)	21.465	540	0.080	0.080	0.717802
42	45 (63)	21.619	1260	0.154	0.154	0.876852
43	46 (74,94,61)	21.792	13389	1.389	1.389	1.029904
44	47 (70)	21.923	19775	2.485	2.485	0.850054
45	48 (66,76,98,80,93,95,102,88)	22.041	28071	5.263	5.263	0.569828
46	49 (55,91,121)	22.339	2445	0.373	0.373	0.700596
47	50 (56,60)	22.649	19933	2.558	2.558	0.832386
48	51 (84,92,155)	22.884	4205	1.316	1.316	0.341422
49	52 (89)	22.991	541	0.073	0.073	0.790446
50	53 (90,101)	23.146	9099	1.316	1.316	0.738803
51	54 (79,99,113)	23.341	5774	0.541	0.541	1.140390
52	55 (119,150)	23.616	409	0.020	0.020	2.131712
53	56 (78,83,112,108)	23.711	743	0.110	0.110	0.724203
54	57 (97,152,86)	23.926	4054	0.409	0.409	1.058072
55	58 (81,87,117,125,115,145)	24.101	6385	0.848	0.848	0.804478
56	59 (116,85,111)	24.254	4674	0.512	0.512	0.975828
57	60 (120,136)	24.377	4105	0.548	0.548	0.800029
58	61 (77,110,148)	24.510	10698	1.557	1.557	0.734106
59	62 (154)	24.788				
60	63 (82)	24.877	3165	0.322	0.322	1.051477
61	64 (151)	25.174	9480	1.243	1.243	0.815021
62	65 (124,135)	25.313	2791	0.212	0.212	1.406136
63	66 (144)	25.373	2118	0.439	0.439	0.515858
64	67 (107,109,147)	25.440	633	0.095	0.095	0.711530
65	68 (123)	25.553	394			
66	69 (106,118,139,149)	25.626	25034	2.924	2.924	0.914679
67	70 (140)	25.741				
68	71 (114,134,143)	26.031	1544	0.148	0.148	1.117389

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.257	436	0.021	0.021	2.188855
70	73 (146,165,188)	26.529	2910	0.285	0.285	1.090203
71	74 (105,132,161)	26.661	10689	0.990	0.990	1.153027
72	75 (153)	26.819	22709	2.153	2.153	1.126951
73	76 (127,168,184)	26.932				
74	77 (141)	27.358	8379	1.243	1.243	0.720416
75	78 (179)	27.428	9092	1.067	1.067	0.910090
76	79 (137)	27.638	437	0.055	0.055	0.852217
77	80 (130,176)	27.795	3591	0.190	0.190	2.019416
78	82 (138,163,164)	28.026	18675	1.974	1.974	1.010861
79	83 (158,160,186)	28.211	2323	0.183	0.183	1.358386
80	84 (126,129)	28.430	636	0.009	0.009	7.182843
81	85 (166,178)	28.764	4326	0.804	0.804	0.574829
82	87 (175,159)	29.075	1005	0.146	0.146	0.734180
83	88 (182,187)	29.224	24307	2.631	2.631	0.986819
84	89 (128,162)	29.357	1213	0.073	0.073	1.772792
85	90 (183)	29.534	11417	1.243	1.243	0.981578
86	91 (167)	29.800	626	0.036	0.036	1.865307
87	92 (185)	30.151	4593	0.343	0.343	1.428605
88	93 (174,181)	30.532	20869	2.339	2.339	0.953185
89	94 (177)	30.809	9932	1.243	1.243	0.853863
90	95 (156,171)	31.120	4918	0.578	0.578	0.909689
91	96 (157,202)	31.382	2846	0.048	0.048	6.297338
92	98 (173)	31.561	384	0.028	0.028	1.476009
93	99 (201)	31.930	2286	0.285	0.285	0.856582
94	100 (172,204)	32.178	3139	0.409	0.409	0.819298
95	101 (192,197)	32.479	643	0.080	0.080	0.854574
96	102 (180)	32.671	45419	4.459	4.459	1.088211
97	103 (193)	32.925	2610	0.307	0.307	0.908205
98	104 (191)	33.241	761	0.088	0.088	0.926962
99	105 (200,169)	33.598	2658	0.314	0.314	0.903351
100	106 (170)	34.773	14191	0.936	0.936	1.620384
101	107 (190)	35.052	3904	0.307	0.307	1.358495
102	108 (198)	35.932	1095	0.088	0.088	1.334339
103	109 (199)	36.169	18386	3.070	3.070	0.639792
104	110 (196,203)	36.721	20320	3.143	3.143	0.690651
105	111 (189)	37.915	416	0.029	0.029	1.522675
106	112 (195)	39.497	6855	0.404	0.404	1.812150
107	113 (208)	40.047	1169	0.180	0.180	0.691812
108	114 (207)	40.982	797	0.068	0.068	1.252099

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.427	18103	1.316	1.316	1.469936
110	116 (205)	43.353	676	0.080	0.080	0.898096
111	I.S. (OCN)	47.026	170177	18.180	18.180	9360.685917
112	117 (206)	48.598	6660	0.497	0.497	1.431730
113	118 (209)	54.712	78	0.009	0.009	0.943801



Sample Name: ICAL0823D  
Sample ID: ICAL 314 ng/mL  
Date Acquired: 08/23/2009 07:49:33 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-6

Sample Name: ICAL0823D

1 of 1



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0823D Sample Amount: 1  
 Sample ID: ICAL 314 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 07:49:33 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:27 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:07:09 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-6

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	5871	21.928	21.928	0.028105
2	3 (2)	12.830				
3	4 (3)	12.934	1761	12.792	12.792	0.014452
4	5 (4,10)	13.546	3392	6.213	6.213	0.057309
5	6 (7,9)	14.413	9480	2.193	2.193	0.453855
6	7 (6)	14.723	7236	3.472	3.472	0.218794
7	8 (5,8)	14.914	27999	25.583	25.583	0.114890
8	9 (14)	15.480				
9	10 (19)	15.558	1860	0.512	0.512	0.381476
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.289	1337	0.488	0.488	0.287784
13	14 (15,18)	16.420	24156	6.761	6.761	0.375045
14	15 (17)	16.508	11681	6.761	6.761	0.181353
15	16 (24,27)	16.808	2578	0.475	0.475	0.569882
16	17 (16,32)	17.092	21419	7.127	7.127	0.315497
17	19 (23,34,54)	17.524	566			
18	20 (29)	17.708	618	0.097	0.097	0.668511
19	21 (26)	17.832	5326	1.316	1.316	0.424895
20	22 (25)	17.915	3459	0.585	0.585	0.620919
21	23 (31)	18.114	36748	7.534	7.534	0.512021
22	24 (28,50)	18.165	51487	9.643	9.643	0.560491
23	25 (20,21,33,53)	18.518	30563	7.258	7.258	0.442032
24	26 (22,51)	18.750	20553	5.300	5.300	0.407109
25	27 (45)	18.979	7857	1.626	1.626	0.507222
26	28 (36)	19.120				
27	29 (46)	19.254	3163	0.731	0.731	0.454125
28	30 (39)	19.386				

**Peak Results**

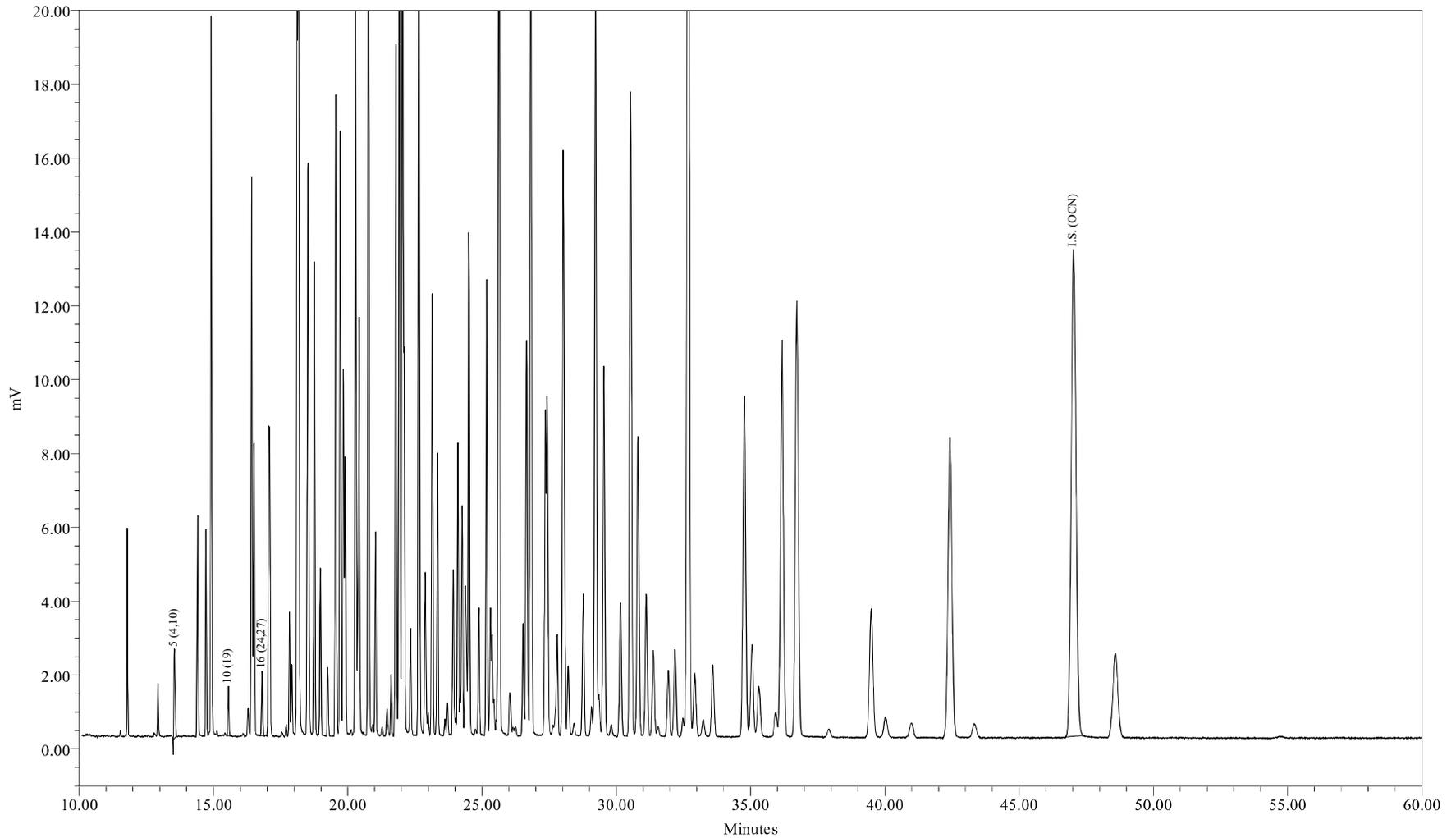
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552	29508	8.716	8.716	0.355374
30	32 (43,49)	19.722	27812	4.203	4.203	0.694636
31	33 (38,47)	19.837	16560	1.828	1.828	0.951170
32	34 (48,75)	19.899	12258	1.828	1.828	0.704106
33	35 (62,65)	20.043				
34	36 (35)	20.117	555			
35	37 (104,44)	20.292	40168	7.858	7.858	0.536620
36	38 (37,42,59)	20.422	20397	4.751	4.751	0.450655
37	39 (41,64,71,72)	20.771	49428	7.492	7.492	0.692542
38	41 (68,96)	20.929	646			
39	42 (40)	21.034	9798	1.718	1.718	0.598785
40	43 (57,103)	21.287	736			
41	44 (58,67,100)	21.460	1520	0.201	0.201	0.793915
42	45 (63)	21.618	2969	0.384	0.384	0.812281
43	46 (74,94,61)	21.791	32728	3.472	3.472	0.989533
44	47 (70)	21.922	47320	6.213	6.213	0.799532
45	48 (66,76,98,80,93,95,102,88)	22.039	66945	13.157	13.157	0.534135
46	49 (55,91,121)	22.339	5962	0.932	0.932	0.671497
47	50 (56,60)	22.645	48747	6.396	6.396	0.800105
48	51 (84,92,155)	22.883	10007	3.289	3.289	0.319375
49	52 (89)	22.987	1248	0.183	0.183	0.717089
50	53 (90,101)	23.145	21346	3.289	3.289	0.681254
51	54 (79,99,113)	23.340	13958	1.352	1.352	1.083548
52	55 (119,150)	23.620	891	0.051	0.051	1.826349
53	56 (78,83,112,108)	23.712	1775	0.274	0.274	0.680132
54	57 (97,152,86)	23.926	9233	1.023	1.023	0.947302
55	58 (81,87,117,125,115,145)	24.100	14982	2.120	2.120	0.741962
56	59 (116,85,111)	24.255	11467	1.279	1.279	0.940917
57	60 (120,136)	24.377	9893	1.370	1.370	0.757777
58	61 (77,110,148)	24.510	25343	3.892	3.892	0.683526
59	62 (154)	24.788				
60	63 (82)	24.877	6897	0.804	0.804	0.900550
61	64 (151)	25.175	22468	3.106	3.106	0.759250
62	65 (124,135)	25.308	6284	0.530	0.530	1.244419
63	66 (144)	25.373	5226	1.097	1.097	0.500279
64	67 (107,109,147)	25.437	1743	0.237	0.237	0.770566
65	68 (123)	25.530	719			
66	69 (106,118,139,149)	25.625	58526	7.309	7.309	0.840525
67	70 (140)	25.741				
68	71 (114,134,143)	26.037	3329	0.369	0.369	0.947250

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.241	1018	0.053	0.053	2.009293
70	73 (146,165,188)	26.530	6378	0.713	0.713	0.939225
71	74 (105,132,161)	26.660	25528	2.476	2.476	1.082338
72	75 (153)	26.817	52890	5.382	5.382	1.031638
73	76 (127,168,184)	26.932				
74	77 (141)	27.359	19114	3.106	3.106	0.645898
75	78 (179)	27.426	20074	2.668	2.668	0.789843
76	79 (137)	27.647	1090	0.137	0.137	0.835262
77	80 (130,176)	27.795	7836	0.475	0.475	1.732219
78	82 (138,163,164)	28.026	44879	4.964	4.964	0.949063
79	83 (158,160,186)	28.209	5169	0.457	0.457	1.188130
80	84 (126,129)	28.417	1593	0.024	0.024	7.071409
81	85 (166,178)	28.765	10206	2.010	2.010	0.533033
82	87 (175,159)	29.070	2269	0.366	0.366	0.651759
83	88 (182,187)	29.223	58646	6.578	6.578	0.935849
84	89 (128,162)	29.344	2706	0.183	0.183	1.554016
85	90 (183)	29.535	26713	3.106	3.106	0.902713
86	91 (167)	29.803	1522	0.090	0.090	1.782484
87	92 (185)	30.153	10754	0.859	0.859	1.314779
88	93 (174,181)	30.531	50588	5.847	5.847	0.908188
89	94 (177)	30.806	23729	3.106	3.106	0.801864
90	95 (156,171)	31.118	11914	1.444	1.444	0.866166
91	96 (157,202)	31.381	6937	0.121	0.121	6.033590
92	98 (173)	31.558	806	0.069	0.069	1.218267
93	99 (201)	31.933	5439	0.713	0.713	0.801005
94	100 (172,204)	32.188	7656	1.023	1.023	0.785456
95	101 (192,197)	32.475	1489	0.201	0.201	0.777560
96	102 (180)	32.669	110036	11.147	11.147	1.036246
97	103 (193)	32.920	6258	0.768	0.768	0.855976
98	104 (191)	33.236	1879	0.219	0.219	0.899561
99	105 (200,169)	33.593	6765	0.786	0.786	0.903833
100	106 (170)	34.767	35205	2.339	2.339	1.580043
101	107 (190)	35.048	9799	0.768	0.768	1.340224
102	108 (198)	35.933	2677	0.219	0.219	1.282073
103	109 (199)	36.164	44260	7.675	7.675	0.605368
104	110 (196,203)	36.718	49389	7.858	7.858	0.659811
105	111 (189)	37.905	942	0.073	0.073	1.355694
106	112 (195)	39.496	16863	1.010	1.010	1.752089
107	113 (208)	40.024	2652	0.451	0.451	0.616906
108	114 (207)	40.986	2139	0.170	0.170	1.321091

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.422	44395	3.289	3.289	1.416871
110	116 (205)	43.309	1708	0.201	0.201	0.892335
111	I.S. (OCN)	47.032	173183	18.180	18.180	9526.041452
112	117 (206)	48.593	15813	1.242	1.242	1.336120
113	118 (209)	54.659	244	0.022	0.022	1.157604



Sample Name: ICAL0823E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 08/23/2009 08:56:52 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-7

Sample Name: ICAL0823E

1 of 1



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Sample Name: ICAL0823E Sample Amount: 1  
 Sample ID: ICAL 627 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 08:56:52 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:29 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:07:18 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-7

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.789				
2	3 (2)	12.830				
3	4 (3)	12.934				
4	5 (4,10)	13.546	6942	12.426	12.426	0.061254
5	6 (7,9)	14.409				
6	7 (6)	14.721				
7	8 (5,8)	14.914				
8	9 (14)	15.480				
9	10 (19)	15.558	3189	1.024	1.024	0.341546
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.290				
13	14 (15,18)	16.422				
14	15 (17)	16.508				
15	16 (24,27)	16.810	4817	0.950	0.950	0.556099
16	17 (16,32)	17.077				
17	19 (23,34,54)	17.532				
18	20 (29)	17.713				
19	21 (26)	17.830				
20	22 (25)	17.916				
21	23 (31)	18.115				
22	24 (28,50)	18.164				
23	25 (20,21,33,53)	18.519				
24	26 (22,51)	18.752				
25	27 (45)	18.980				
26	28 (36)	19.120				
27	29 (46)	19.255				
28	30 (39)	19.386				

**Peak Results**

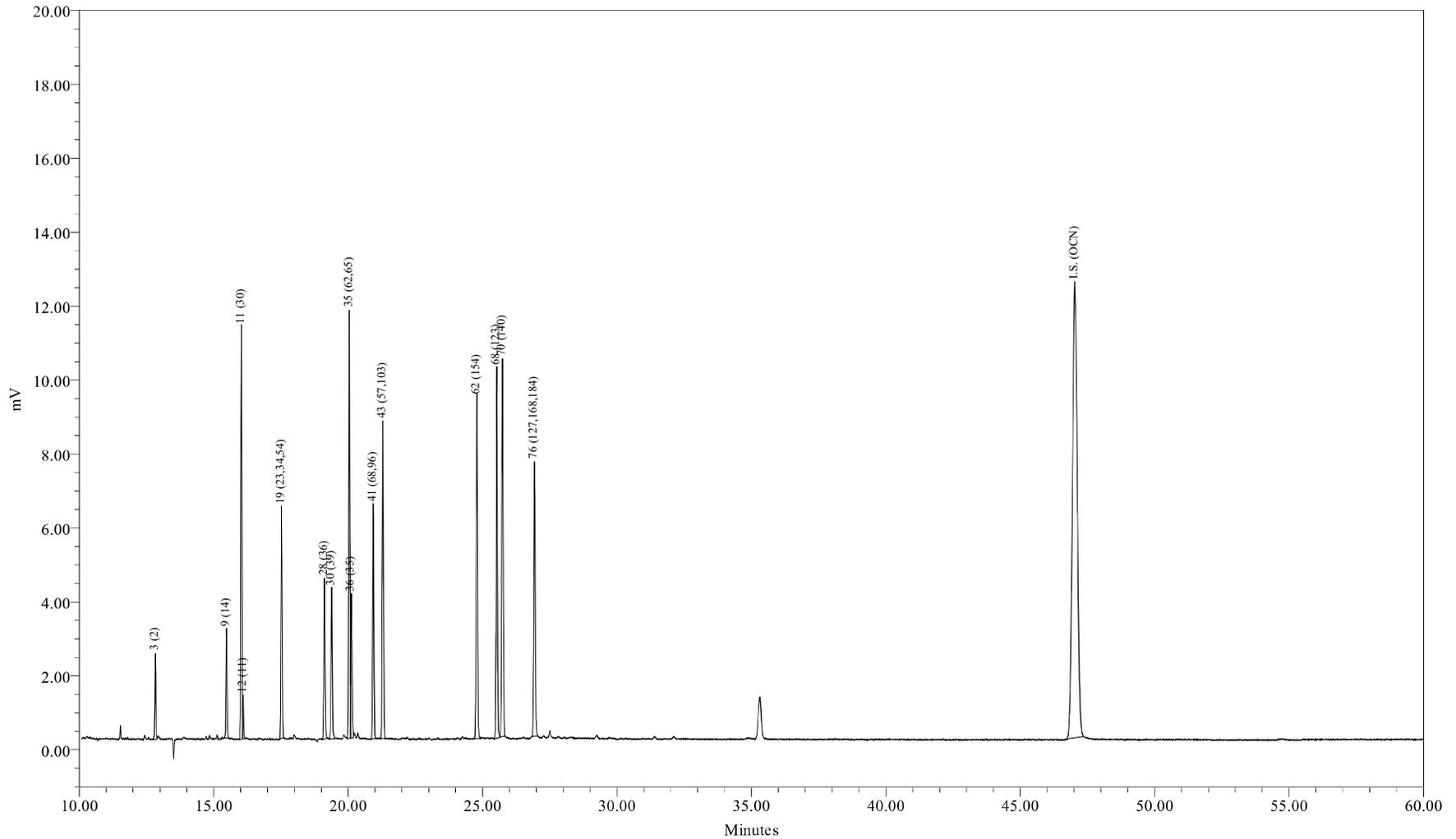
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552				
30	32 (43,49)	19.719				
31	33 (38,47)	19.836				
32	34 (48,75)	19.900				
33	35 (62,65)	20.043				
34	36 (35)	20.126				
35	37 (104,44)	20.292				
36	38 (37,42,59)	20.426				
37	39 (41,64,71,72)	20.770				
38	41 (68,96)	20.934				
39	42 (40)	21.035				
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.455				
42	45 (63)	21.616				
43	46 (74,94,61)	21.791				
44	47 (70)	21.923				
45	48 (66,76,98,80,93,95,102,88)	22.042				
46	49 (55,91,121)	22.335				
47	50 (56,60)	22.642				
48	51 (84,92,155)	22.879				
49	52 (89)	22.984				
50	53 (90,101)	23.139				
51	54 (79,99,113)	23.337				
52	55 (119,150)	23.613				
53	56 (78,83,112,108)	23.706				
54	57 (97,152,86)	23.930				
55	58 (81,87,117,125,115,145)	24.099				
56	59 (116,85,111)	24.256				
57	60 (120,136)	24.380				
58	61 (77,110,148)	24.506				
59	62 (154)	24.788				
60	63 (82)	24.873				
61	64 (151)	25.170				
62	65 (124,135)	25.303				
63	66 (144)	25.373				
64	67 (107,109,147)	25.438				
65	68 (123)	25.528				
66	69 (106,118,139,149)	25.623				
67	70 (140)	25.741				
68	71 (114,134,143)	26.040				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.233				
70	73 (146,165,188)	26.523				
71	74 (105,132,161)	26.664				
72	75 (153)	26.821				
73	76 (127,168,184)	26.932				
74	77 (141)	27.352				
75	78 (179)	27.423				
76	79 (137)	27.645				
77	80 (130,176)	27.795				
78	82 (138,163,164)	28.023				
79	83 (158,160,186)	28.213				
80	84 (126,129)	28.423				
81	85 (166,178)	28.766				
82	87 (175,159)	29.078				
83	88 (182,187)	29.222				
84	89 (128,162)	29.355				
85	90 (183)	29.534				
86	91 (167)	29.825				
87	92 (185)	30.153				
88	93 (174,181)	30.528				
89	94 (177)	30.807				
90	95 (156,171)	31.108				
91	96 (157,202)	31.378				
92	98 (173)	31.545				
93	99 (201)	31.924				
94	100 (172,204)	32.182				
95	101 (192,197)	32.480				
96	102 (180)	32.666				
97	103 (193)	32.919				
98	104 (191)	33.226				
99	105 (200,169)	33.578				
100	106 (170)	34.765				
101	107 (190)	35.040				
102	108 (198)	35.919				
103	109 (199)	36.162				
104	110 (196,203)	36.710				
105	111 (189)	37.898				
106	112 (195)	39.493				
107	113 (208)	40.015				
108	114 (207)	40.966				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.421				
110	116 (205)	43.318				
111	I.S. (OCN)	47.028	165807	18.180	18.180	9120.293904
112	117 (206)	48.573				
113	118 (209)	54.729				



Sample Name: SC0823A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 08/23/2009 11:11:32 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-9

Sample Name: SC0823A

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
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Sample Name: SC0823A Sample Amount: 1  
 Sample ID: SUP CONG STD 200/5 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 11:11:32 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:31 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:07:30 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-9

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.789				
2	3 (2)	12.830	4953	200.000	200.000	0.002899
3	4 (3)	12.934				
4	5 (4,10)	13.545				
5	6 (7,9)	14.409				
6	7 (6)	14.721				
7	8 (5,8)	14.914				
8	9 (14)	15.479	7556	5.000	5.000	0.176869
9	10 (19)	15.557				
10	11 (30)	16.030	28410	5.000	5.000	0.665040
11	12 (11)	16.092	2772	5.000	5.000	0.064897
12	13 (12,13)	16.290				
13	14 (15,18)	16.422				
14	15 (17)	16.508				
15	16 (24,27)	16.808				
16	17 (16,32)	17.077				
17	19 (23,34,54)	17.525	16956	5.000	5.000	0.396913
18	20 (29)	17.713				
19	21 (26)	17.830				
20	22 (25)	17.916				
21	23 (31)	18.115				
22	24 (28,50)	18.164				
23	25 (20,21,33,53)	18.519				
24	26 (22,51)	18.752				
25	27 (45)	18.980				
26	28 (36)	19.120	12881	5.000	5.000	0.301528
27	29 (46)	19.255				
28	30 (39)	19.384	12749	5.000	5.000	0.298422

**Peak Results**

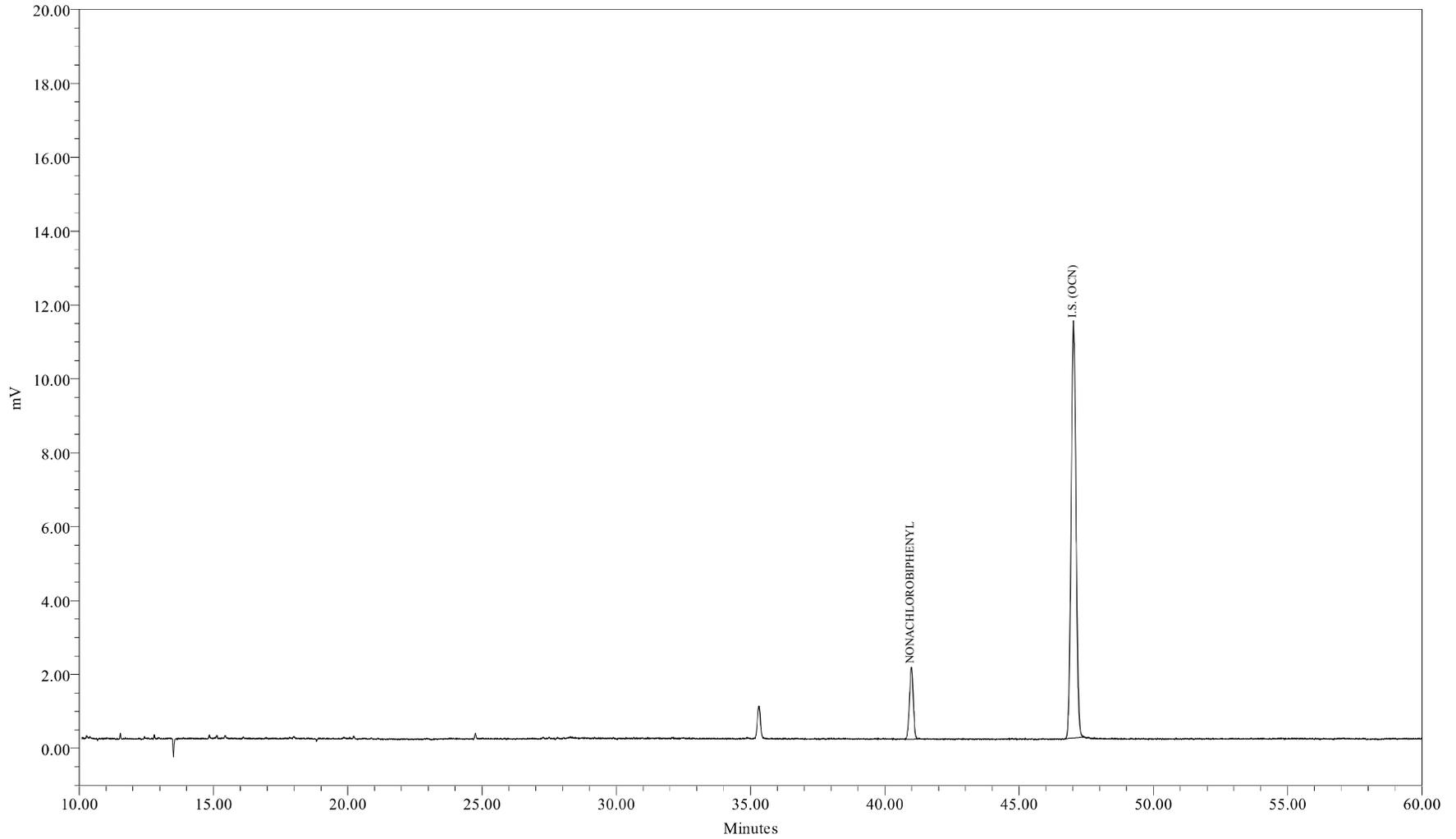
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552				
30	32 (43,49)	19.719				
31	33 (38,47)	19.836				
32	34 (48,75)	19.900				
33	35 (62,65)	20.043	33632	5.000	5.000	0.787266
34	36 (35)	20.125	12016	5.000	5.000	0.281286
35	37 (104,44)	20.292				
36	38 (37,42,59)	20.426				
37	39 (41,64,71,72)	20.770				
38	41 (68,96)	20.936	18945	5.000	5.000	0.443464
39	42 (40)	21.035				
40	43 (57,103)	21.292	25879	5.000	5.000	0.605790
41	44 (58,67,100)	21.455				
42	45 (63)	21.616				
43	46 (74,94,61)	21.791				
44	47 (70)	21.923				
45	48 (66,76,98,80,93,95,102,88)	22.042				
46	49 (55,91,121)	22.335				
47	50 (56,60)	22.642				
48	51 (84,92,155)	22.879				
49	52 (89)	22.984				
50	53 (90,101)	23.139				
51	54 (79,99,113)	23.337				
52	55 (119,150)	23.613				
53	56 (78,83,112,108)	23.706				
54	57 (97,152,86)	23.930				
55	58 (81,87,117,125,115,145)	24.099				
56	59 (116,85,111)	24.256				
57	60 (120,136)	24.380				
58	61 (77,110,148)	24.506				
59	62 (154)	24.789	30387	5.000	5.000	0.711303
60	63 (82)	24.873				
61	64 (151)	25.170				
62	65 (124,135)	25.303				
63	66 (144)	25.373				
64	67 (107,109,147)	25.438				
65	68 (123)	25.530	32876	5.000	5.000	0.769564
66	69 (106,118,139,149)	25.623				
67	70 (140)	25.740	34766	5.000	5.000	0.813822
68	71 (114,134,143)	26.040				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.233				
70	73 (146,165,188)	26.523				
71	74 (105,132,161)	26.664				
72	75 (153)	26.821				
73	76 (127,168,184)	26.932	28307	5.000	5.000	0.662615
74	77 (141)	27.352				
75	78 (179)	27.423				
76	79 (137)	27.645				
77	80 (130,176)	27.795				
78	82 (138,163,164)	28.023				
79	83 (158,160,186)	28.213				
80	84 (126,129)	28.423				
81	85 (166,178)	28.766				
82	87 (175,159)	29.078				
83	88 (182,187)	29.222				
84	89 (128,162)	29.355				
85	90 (183)	29.534				
86	91 (167)	29.825				
87	92 (185)	30.153				
88	93 (174,181)	30.528				
89	94 (177)	30.807				
90	95 (156,171)	31.108				
91	96 (157,202)	31.378				
92	98 (173)	31.545				
93	99 (201)	31.924				
94	100 (172,204)	32.182				
95	101 (192,197)	32.480				
96	102 (180)	32.666				
97	103 (193)	32.919				
98	104 (191)	33.226				
99	105 (200,169)	33.578				
100	106 (170)	34.765				
101	107 (190)	35.040				
102	108 (198)	35.919				
103	109 (199)	36.162				
104	110 (196,203)	36.710				
105	111 (189)	37.898				
106	112 (195)	39.493				
107	113 (208)	40.015				
108	114 (207)	40.966				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.421				
110	116 (205)	43.318				
111	I.S. (OCN)	47.026	155329	18.180	18.180	8543.971717
112	117 (206)	48.573				
113	118 (209)	54.729				



Sample Name: SS0823A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 08/23/2009 12:18:49 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_2\_082309  
LIMS File ID: GC16-769-10

Sample Name: SS0823A

1 of 1

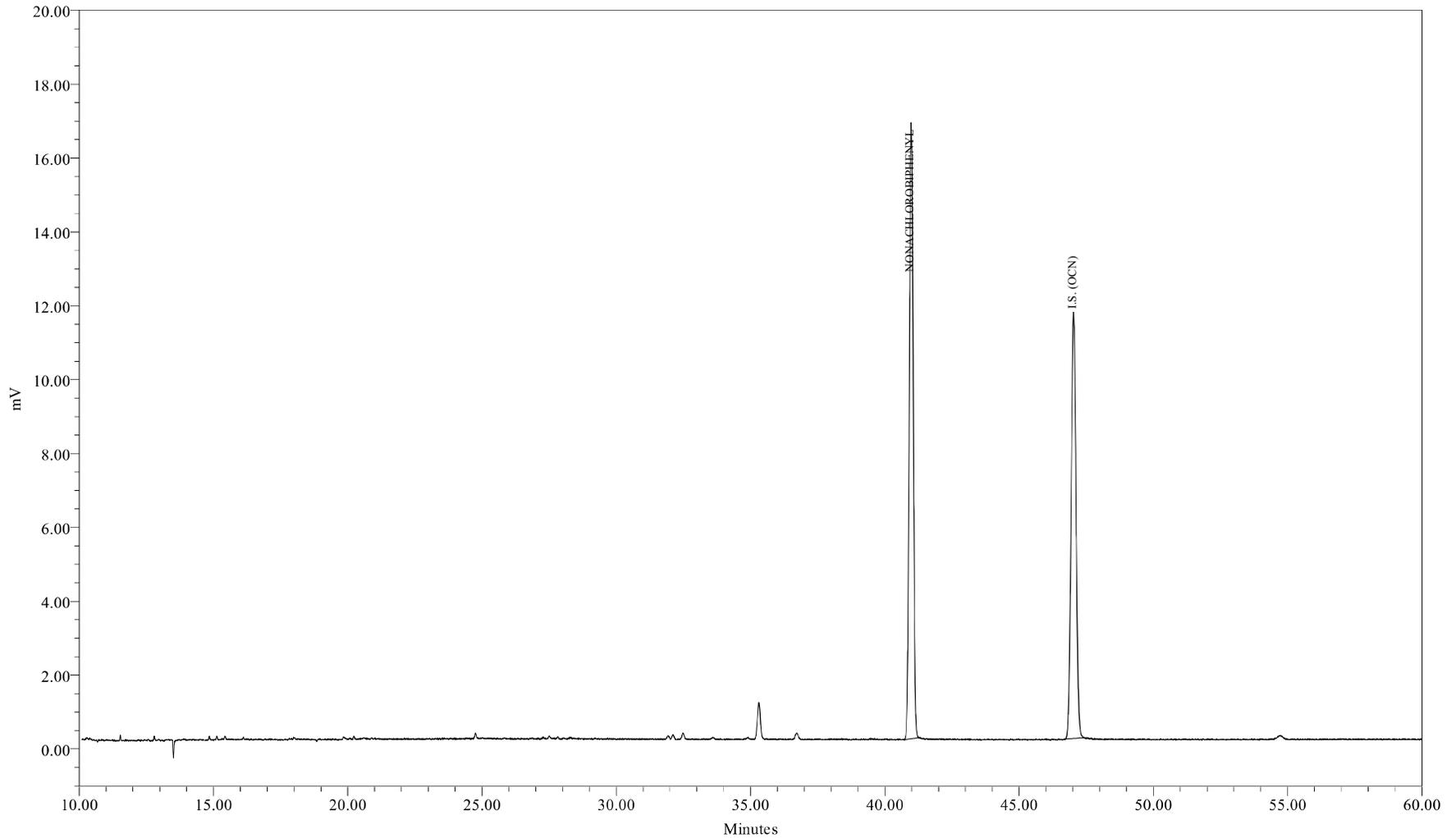


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Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: SS0823A Sample Amount: 1  
Sample ID: Surr Std (207) 2.0 ng/mL Dilution: 1  
Date Acquired: 08/23/2009 12:18:49 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:29:07 EDT  
Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_2\_082309 Current Date: 09/02/2009  
Run Time: 60.0 Minutes Current Time: 01:07:40 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-10

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.987	19130	2.000	2.000	1.219928
2	I.S. (OCN)	47.024	142546	18.180	18.180	7840.805241



Sample Name: SS0823B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 08/23/2009 13:26:05 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_20\_082309  
LIMS File ID: GC16-769-11

Sample Name: SS0823B

1 of 1

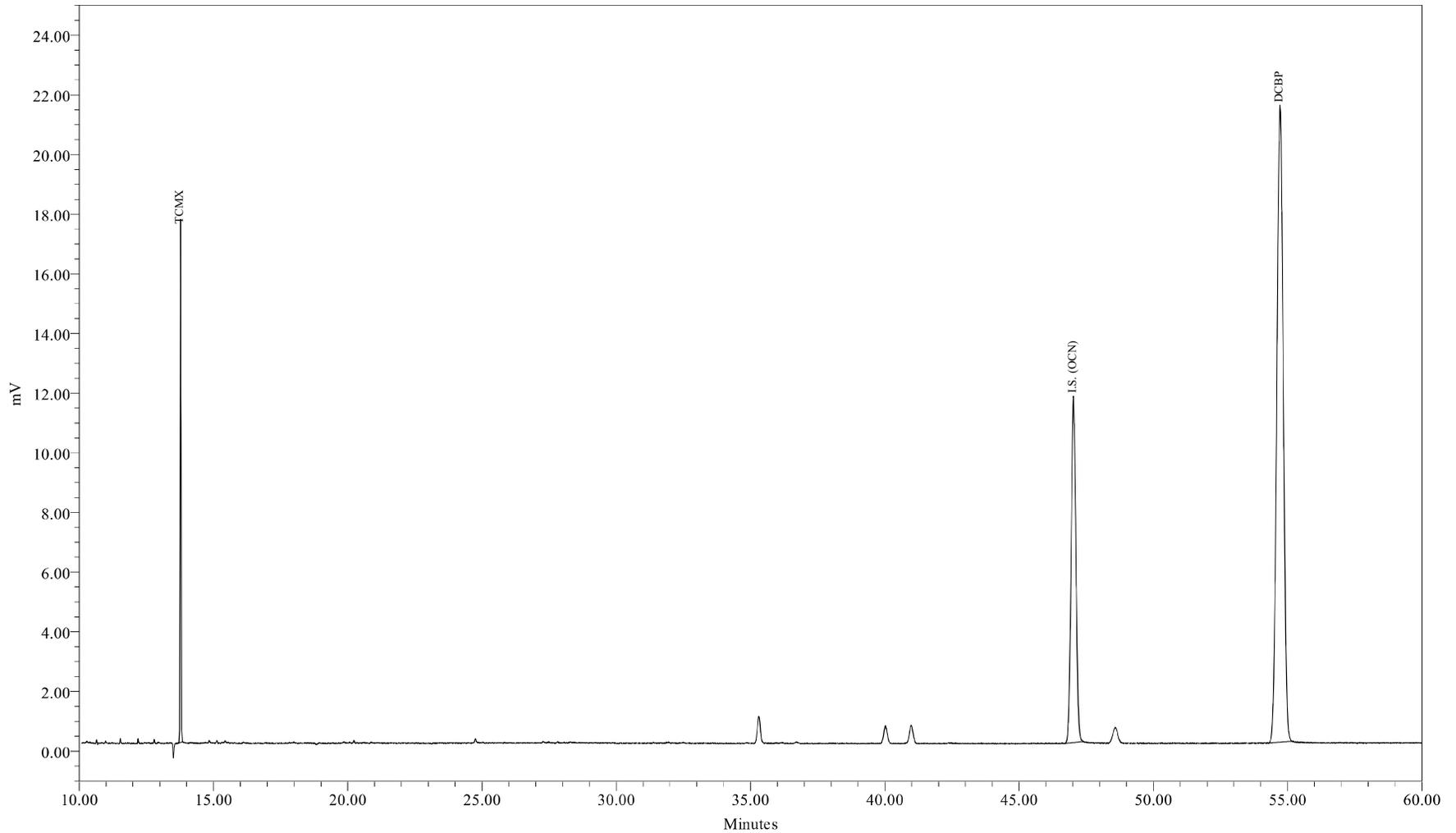


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Sample Name: SS0823B Sample Amount: 1  
Sample ID: Surr Std (207) 20.0 ng/mL Dilution: 1  
Date Acquired: 08/23/2009 13:26:05 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:29:51 EDT  
Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_20\_082309 Current Date: 09/02/2009  
Run Time: 60.0 Minutes Current Time: 01:07:48 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-11

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.981	168883	20.000	20.000	1.047607
2	I.S. (OCN)	47.020	146538	18.180	18.180	8060.411822



Sample Name: TD0823A  
Sample ID: Surr TCMX/DCBP 5/50 ppb  
Date Acquired: 08/23/2009 14:33:23 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_TD\_S\_082309  
LIMS File ID: GC16-769-I2

Sample Name: TD0823A

1 of 1



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Sample Name:	TD0823A	Sample Amount:	1
Sample ID:	Surr TCMX/DCBP 5/50 ppb	Dilution:	1
Date Acquired:	08/23/2009 14:33:23 EDT	Extract Volume:	1
Project Name:	GC16_May_2009	Date Processed:	08/24/2009 13:32:44 EDT
Sample Set Name:	GC16_CC_082309	User Name:	Inga Hotaling (IngaH)
Processing Method:	CSGB_TD_S_082309	Current Date:	09/02/2009
Run Time:	60.0 Minutes	Current Time:	01:07:58 US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC16-769-12

### Peak Results

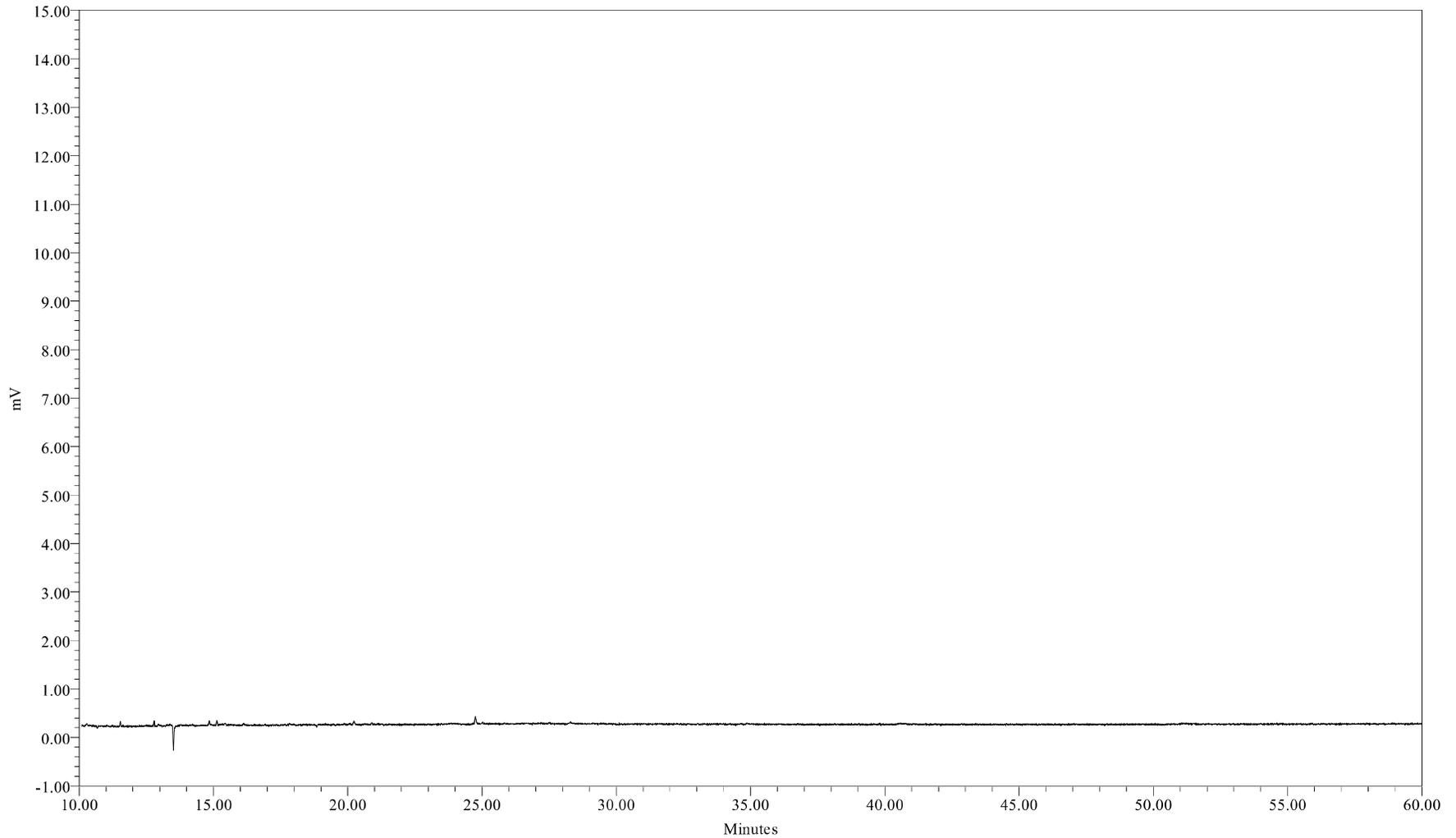
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	TCMX	13.776	37299	5.000	5.000	0.947344
2	I.S. (OCN)	47.022	143157	18.180	18.180	7874.442526
3	DCBP	54.716	358570	50.000	50.000	0.910717



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Sample Name: 090823B04  
Sample ID: HEXANE BLANK  
Date Acquired: 08/23/2009 15:40:42 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSG\_B\_LL1X\_082309  
LIMS File ID: GC16-769-13

Sample Name: 090823B04

1 of 1

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**

LAB NAME: <u>Northeast Analytical, Inc.</u>	SGD NO: <u>09090294</u>
ELAP ID No: <u>11078</u>	
INSTRUMENT ID: <u>GC16</u>	
GC COLUMN: <u>Agilent DB-1; 30 meter, 0.25 micron phase thickness</u>	

**Continuing Calibration Standard CCCS0922D**

Lab File ID: <u>GC16-798-19</u>	Known Amount: <u>122 ng/ml</u>
Date: <u>09/23/2009</u>	Calculated Amount: <u>131 ng/ml</u>
Time: <u>08:17:00</u>	OCN (I.S.) Peak Area: <u>164765</u>
	% Recovery of I.S. ( 50 - 150 %): <u>98.4</u>

Lab File ID: _____	Known Amount: _____
Date: _____	Calculated Amount: _____
Time: _____	OCN (I.S.) Peak Area: _____
	% Recovery of I.S. ( 50 - 150 %): _____

Lab File ID: _____	Known Amount: _____
Date: _____	Calculated Amount: _____
Time: _____	OCN (I.S.) Peak Area: _____
	% Recovery of I.S. ( 50 - 150 %): _____

**Northeast Analytical, Inc.**  
 PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: <u>Northeast Analytical, Inc.</u>	SGD NO: <u>09090294</u>
ELAP ID No: <u>11078</u>	
INSTRUMENT ID: <u>GC16</u>	
GC COLUMN: <u>Agilent DB-1; 30 meter, 0.25 micron phase thickness</u>	

**Continuing Calibration Standard CCCS0923A**

Lab File ID: <u>GC16-799-9</u>	Known Amount:	<u>122 ng/ml</u>
Date: <u>09/23/2009</u>	Calculated Amount:	<u>125 ng/ml</u>
Time: <u>21:46:16</u>	OCN (I.S.) Peak Area:	<u>183625</u>
	% Recovery of I.S. ( 50 - 150 %):	<u>0</u>

**Continuing Calibration Standard CCCS0923B**

Lab File ID: <u>GC16-799-12</u>	Known Amount:	<u>122 ng/ml</u>
Date: <u>09/24/2009</u>	Calculated Amount:	<u>124 ng/ml</u>
Time: <u>01:08:47</u>	OCN (I.S.) Peak Area:	<u>187457</u>
	% Recovery of I.S. ( 50 - 150 %):	<u>112</u>

Lab File ID: _____	Known Amount:	_____
Date: _____	Calculated Amount:	_____
Time: _____	OCN (I.S.) Peak Area:	_____
	% Recovery of I.S. ( 50 - 150 %):	_____

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**

LAB NAME: Northeast Analytical, Inc.                                  SGD NO: 09090294  
ELAP ID No: 11078  
INSTRUMENT ID: GC16  
GC COLUMN: Agilent DB-1; 30 meter, 0.25 micron phase thickness

**Continuing Calibration Standard CCCS0924A**

Lab File ID:	<u>GC16-800-5</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>09/24/2009</u>	Calculated Amount:	<u>126 ng/ml</u>
Time:	<u>12:23:19</u>	OCN (I.S.) Peak Area:	<u>189365</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>113</u>

**Continuing Calibration Standard CCCS0924B**

Lab File ID:	<u>GC16-800-7</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>09/24/2009</u>	Calculated Amount:	<u>124 ng/ml</u>
Time:	<u>14:38:19</u>	OCN (I.S.) Peak Area:	<u>186927</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>112</u>

Lab File ID:	<u>  </u>	Known Amount:	<u>  </u>
Date:	<u>  </u>	Calculated Amount:	<u>  </u>
Time:	<u>  </u>	OCN (I.S.) Peak Area:	<u>  </u>
		% Recovery of I.S. ( 50 - 150 %):	<u>  </u>

# Northeast Analytical, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0922D File ID: GC16-798-19		Continuing Calibration		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.30	-3.95				
37 (104,44)	3.06	+/-15	3.52	14.9				
47 (70)	2.42	+/-15	2.62	8.37				
93 (174,181)	2.28	+/-15	2.39	4.93				
102 (180)	4.35	+/-15	4.56	4.74				
116 (205)	0.0788	+/-30	0.0778	-1.28				
Total CCCS Conc.	122	+/-15	131	7.32				

### Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0922D	1978 uV	989 uV	581 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0922D	2282 uV	760.7 uV	82 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

# Northeast Analytical, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0923A File ID: GC16-799-9		Continuing Calibration CCCS0923B File ID: GC16-799-12		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.25	-7.19	1.19	-11.5		
37 (104,44)	3.06	+/-15	3.38	10.4	3.33	8.79		
47 (70)	2.42	+/-15	2.49	2.85	2.47	2.22		
93 (174,181)	2.28	+/-15	2.34	2.50	2.37	4.10		
102 (180)	4.35	+/-15	4.46	2.44	4.46	2.46		
116 (205)	0.0788	+/-30	0.0834	5.84	0.0882	12.0		
Total CCCS Conc.	122	+/-15	125	2.47	124	1.79		

### Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0923A	2150 uV	1075 uV	607 uV
CCCS0923B	2200 uV	1100 uV	597 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0923A	2469 uV	823 uV	85 uV
CCCS0923B	2491 uV	830.3 uV	113 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

# Northeast Analytical, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0924A File ID: GC16-800-5		Continuing Calibration CCCS0924B File ID: GC16-800-7		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.20	-10.9	1.27	-5.81		
37 (104,44)	3.06	+/-15	3.36	9.66	3.37	10.0		
47 (70)	2.42	+/-15	2.55	5.28	2.50	3.22		
93 (174,181)	2.28	+/-15	2.36	3.67	2.40	5.34		
102 (180)	4.35	+/-15	4.45	2.27	4.49	3.22		
116 (205)	0.0788	+/-30	0.0770	-2.26	0.0782	-0.807		
Total CCCS Conc.	122	+/-15	126	2.91	124	2.01		

### Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0924A	2203 uV	1101.5 uV	604 uV
CCCS0924B	2140 uV	1070 uV	603 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0924A	2478 uV	826 uV	110 uV
CCCS0924B	2524 uV	841.3 uV	109 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0922D	CCCS0922D File ID: GC16-798-19		Retention Time	Flag	Retention Time	Flag
			Retention Time	Flag				
1	2 (1)	+/-0.07	11.79					
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.94					
4	5 (4,10)	+/-0.07	13.54					
5	6 (7,9)	+/-0.07	14.41					
6	7 (6)	+/-0.07	14.72					
7	8 (5,8)	+/-0.07	14.91					
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.55					
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.29					
13	14 (15,18)	+/-0.07	16.42					
14	15 (17)	+/-0.07	16.50					
15	16 (24,27)	+/-0.07	16.80					
16	17 (16,32)	+/-0.07	17.06					
17	19 (23,34,54)	+/-0.07	17.52					
18	20 (29)	+/-0.07	17.71					
19	21 (26)	+/-0.07	17.83					
20	22 (25)	+/-0.07	17.91					
21	23 (31)	+/-0.07	18.11					
22	24 (28,50)	+/-0.07	18.16					
23	25 (20,21,33,53)	+/-0.07	18.52					
24	26 (22,51)	+/-0.07	18.75					
25	27 (45)	+/-0.07	18.97					
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.25					
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.55					
30	32 (43,49)	+/-0.07	19.72					
31	33 (38,47)	+/-0.07	19.83					
32	34 (48,75)	+/-0.07	19.89					
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.14					
35	37 (104,44)	+/-0.07	20.29					
36	38 (37,42,59)	+/-0.07	20.42					
37	39 (41,64,71,72)	+/-0.07	20.77					
38	41 (68,96)	+/-0.07	20.94					
39	42 (40)	+/-0.07	21.03					
40	43 (57,103)	+/-0.07	21.26					
41	44 (58,67,100)	+/-0.07	21.46					
42	45 (63)	+/-0.07	21.62					
43	46 (74,94,61)	+/-0.07	21.79					
44	47 (70)	+/-0.07	21.92					
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	22.04					
46	49 (55,91,121)	+/-0.07	22.34					
47	50 (56,60)	+/-0.07	22.64					
48	51 (84,92,155)	+/-0.07	22.88					
49	52 (89)	+/-0.07	22.98					
50	53 (90,101)	+/-0.07	23.14					
51	54 (79,99,113)	+/-0.07	23.33					
52	55 (119,150)	+/-0.07	23.63					
53	56 (78,83,112,108)	+/-0.07	23.70					
54	57 (97,152,86)	+/-0.07	23.92					
55	58 (81,87,117,125,115,145)	+/-0.07	24.10					
56	59 (116,85,111)	+/-0.07	24.25					

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0922D	CCCS0922D File ID: GC16-798-19		Retention Time	Flag	Retention Time	Flag
			Retention Time	Flag				
57	60 (120,136)	+/-0.07	24.37					
58	61 (77,110,148)	+/-0.07	24.50					
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.87					
61	64 (151)	+/-0.07	25.17					
62	65 (124,135)	+/-0.07	25.30					
63	66 (144)	+/-0.07	25.37					
64	67 (107,109,147)	+/-0.07	25.43					
65	68 (123)	+/-0.07	25.53					
66	69 (106,118,139,149)	+/-0.07	25.61					
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	26.03					
69	72 (122,131,133,142)	+/-0.07	26.21					
70	73 (146,165,188)	+/-0.07	26.52					
71	74 (105,132,161)	+/-0.07	26.65					
72	75 (153)	+/-0.07	26.81					
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.35					
75	78 (179)	+/-0.07	27.42					
76	79 (137)	+/-0.07	27.64					
77	80 (130,176)	+/-0.07	27.79					
78	82 (138,163,164)	+/-0.07	28.02					
79	83 (158,160,186)	+/-0.07	28.20					
80	84 (126,129)	+/-0.07	28.41					
81	85 (166,178)	+/-0.07	28.76					
82	87 (175,159)	+/-0.07	29.06					
83	88 (182,187)	+/-0.07	29.21					
84	89 (128,162)	+/-0.07	29.34					
85	90 (183)	+/-0.07	29.53					
86	91 (167)	+/-0.07	29.80					
87	92 (185)	+/-0.07	30.14					
88	93 (174,181)	+/-0.07	30.52					
89	94 (177)	+/-0.07	30.80					
90	95 (156,171)	+/-0.07	31.10					
91	96 (157,202)	+/-0.07	31.37					
92	98 (173)	+/-0.07	31.53					
93	99 (201)	+/-0.07	31.91					
94	100 (172,204)	+/-0.07	32.17					
95	101 (192,197)	+/-0.07	32.48					
96	102 (180)	+/-0.07	32.66					
97	103 (193)	+/-0.07	32.90					
98	104 (191)	+/-0.07	33.23					
99	105 (200,169)	+/-0.07	33.57					
100	106 (170)	+/-0.07	34.75					
101	107 (190)	+/-0.07	35.03					
102	108 (198)	+/-0.07	35.92					
103	109 (199)	+/-0.07	36.15					
104	110 (196,203)	+/-0.07	36.69					
105	111 (189)	+/-0.07	37.92					
106	112 (195)	+/-0.07	39.47					
107	113 (208)	+/-0.07	39.99					
108	114 (207)	+/-0.07	40.99					
109	115 (194)	+/-0.07	42.39					
110	116 (205)	+/-0.07	43.32					
111	117 (206)	+/-0.07	48.56					
112	118 (209)	+/-0.07	54.74					

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0922D	CCCS0923A File ID: GC16-799-9		CCCS0923B File ID: GC16-799-12		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.79		11.79			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.94		12.93			
4	5 (4,10)	+/-0.07	13.54		13.54			
5	6 (7,9)	+/-0.07	14.41		14.41			
6	7 (6)	+/-0.07	14.72		14.72			
7	8 (5,8)	+/-0.07	14.91		14.91			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.56		15.55			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.29		16.30			
13	14 (15,18)	+/-0.07	16.42		16.42			
14	15 (17)	+/-0.07	16.50		16.51			
15	16 (24,27)	+/-0.07	16.80		16.81			
16	17 (16,32)	+/-0.07	17.06		17.06			
17	19 (23,34,54)	+/-0.07	17.54		17.50			
18	20 (29)	+/-0.07	17.70		17.70			
19	21 (26)	+/-0.07	17.83		17.83			
20	22 (25)	+/-0.07	17.91		17.91			
21	23 (31)	+/-0.07	18.11		18.11			
22	24 (28,50)	+/-0.07	18.16		18.16			
23	25 (20,21,33,53)	+/-0.07	18.52		18.52			
24	26 (22,51)	+/-0.07	18.75		18.75			
25	27 (45)	+/-0.07	18.97		18.97			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.25		19.25			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.55		19.55			
30	32 (43,49)	+/-0.07	19.72		19.72			
31	33 (38,47)	+/-0.07	19.83		19.83			
32	34 (48,75)	+/-0.07	19.90		19.89			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.11		20.14			
35	37 (104,44)	+/-0.07	20.29		20.29			
36	38 (37,42,59)	+/-0.07	20.42		20.42			
37	39 (41,64,71,72)	+/-0.07	20.77		20.77			
38	41 (68,96)	+/-0.07	20.93		20.93			
39	42 (40)	+/-0.07	21.03		21.03			
40	43 (57,103)	+/-0.07	21.28		21.29			
41	44 (58,67,100)	+/-0.07	21.46		21.45			
42	45 (63)	+/-0.07	21.62		21.61			
43	46 (74,94,61)	+/-0.07	21.79		21.79			
44	47 (70)	+/-0.07	21.92		21.92			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	22.04		22.04			
46	49 (55,91,121)	+/-0.07	22.33		22.34			
47	50 (56,60)	+/-0.07	22.64		22.64			
48	51 (84,92,155)	+/-0.07	22.88		22.88			
49	52 (89)	+/-0.07	22.99		22.99			
50	53 (90,101)	+/-0.07	23.14		23.14			
51	54 (79,99,113)	+/-0.07	23.34		23.34			
52	55 (119,150)	+/-0.07	23.62		23.61			
53	56 (78,83,112,108)	+/-0.07	23.71		23.71			
54	57 (97,152,86)	+/-0.07	23.92		23.92			
55	58 (81,87,117,125,115,145)	+/-0.07	24.10		24.10			
56	59 (116,85,111)	+/-0.07	24.25		24.25			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0922D	CCCS0923A File ID: GC16-799-9		CCCS0923B File ID: GC16-799-12		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	24.37		24.37			
58	61 (77,110,148)	+/-0.07	24.50		24.50			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.87		24.88			
61	64 (151)	+/-0.07	25.17		25.17			
62	65 (124,135)	+/-0.07	25.31		25.31			
63	66 (144)	+/-0.07	25.37		25.37			
64	67 (107,109,147)	+/-0.07	25.44		25.43			
65	68 (123)	+/-0.07	25.54		25.53			
66	69 (106,118,139,149)	+/-0.07	25.62		25.62			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	26.03		26.02			
69	72 (122,131,133,142)	+/-0.07	26.24		26.22			
70	73 (146,165,188)	+/-0.07	26.53		26.53			
71	74 (105,132,161)	+/-0.07	26.66		26.66			
72	75 (153)	+/-0.07	26.81		26.81			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.35		27.36			
75	78 (179)	+/-0.07	27.42		27.42			
76	79 (137)	+/-0.07	27.66		27.64			
77	80 (130,176)	+/-0.07	27.79		27.79			
78	82 (138,163,164)	+/-0.07	28.02		28.02			
79	83 (158,160,186)	+/-0.07	28.21		28.20			
80	84 (126,129)	+/-0.07	28.41		28.40			
81	85 (166,178)	+/-0.07	28.76		28.76			
82	87 (175,159)	+/-0.07	29.07		29.07			
83	88 (182,187)	+/-0.07	29.21		29.22			
84	89 (128,162)	+/-0.07	29.34		29.34			
85	90 (183)	+/-0.07	29.53		29.53			
86	91 (167)	+/-0.07	29.81		29.81			
87	92 (185)	+/-0.07	30.15		30.15			
88	93 (174,181)	+/-0.07	30.52		30.52			
89	94 (177)	+/-0.07	30.79		30.80			
90	95 (156,171)	+/-0.07	31.10		31.10			
91	96 (157,202)	+/-0.07	31.37		31.36			
92	98 (173)	+/-0.07	31.54		31.56			
93	99 (201)	+/-0.07	31.92		31.92			
94	100 (172,204)	+/-0.07	32.17		32.18			
95	101 (192,197)	+/-0.07	32.47		32.46			
96	102 (180)	+/-0.07	32.66		32.66			
97	103 (193)	+/-0.07	32.92		32.90			
98	104 (191)	+/-0.07	33.23		33.22			
99	105 (200,169)	+/-0.07	33.58		33.58			
100	106 (170)	+/-0.07	34.75		34.75			
101	107 (190)	+/-0.07	35.04		35.04			
102	108 (198)	+/-0.07	35.92		35.92			
103	109 (199)	+/-0.07	36.15		36.16			
104	110 (196,203)	+/-0.07	36.70		36.71			
105	111 (189)	+/-0.07	37.93		37.87			
106	112 (195)	+/-0.07	39.47		39.47			
107	113 (208)	+/-0.07	39.98		40.02			
108	114 (207)	+/-0.07	40.97		40.98			
109	115 (194)	+/-0.07	42.41		42.40			
110	116 (205)	+/-0.07	43.28		43.32			
111	117 (206)	+/-0.07	48.56		48.57			
112	118 (209)	+/-0.07	54.75		54.74			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0922D	CCCS0923A File ID: GC16-799-9		CCCS0923B File ID: GC16-799-12		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.79		11.79			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.94		12.93			
4	5 (4,10)	+/-0.07	13.54		13.54			
5	6 (7,9)	+/-0.07	14.41		14.41			
6	7 (6)	+/-0.07	14.72		14.72			
7	8 (5,8)	+/-0.07	14.91		14.91			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.56		15.55			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.29		16.30			
13	14 (15,18)	+/-0.07	16.42		16.42			
14	15 (17)	+/-0.07	16.50		16.51			
15	16 (24,27)	+/-0.07	16.80		16.81			
16	17 (16,32)	+/-0.07	17.06		17.06			
17	19 (23,34,54)	+/-0.07	17.54		17.50			
18	20 (29)	+/-0.07	17.70		17.70			
19	21 (26)	+/-0.07	17.83		17.83			
20	22 (25)	+/-0.07	17.91		17.91			
21	23 (31)	+/-0.07	18.11		18.11			
22	24 (28,50)	+/-0.07	18.16		18.16			
23	25 (20,21,33,53)	+/-0.07	18.52		18.52			
24	26 (22,51)	+/-0.07	18.75		18.75			
25	27 (45)	+/-0.07	18.97		18.97			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.25		19.25			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.55		19.55			
30	32 (43,49)	+/-0.07	19.72		19.72			
31	33 (38,47)	+/-0.07	19.83		19.83			
32	34 (48,75)	+/-0.07	19.90		19.89			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.11		20.14			
35	37 (104,44)	+/-0.07	20.29		20.29			
36	38 (37,42,59)	+/-0.07	20.42		20.42			
37	39 (41,64,71,72)	+/-0.07	20.77		20.77			
38	41 (68,96)	+/-0.07	20.93		20.93			
39	42 (40)	+/-0.07	21.03		21.03			
40	43 (57,103)	+/-0.07	21.28		21.29			
41	44 (58,67,100)	+/-0.07	21.46		21.45			
42	45 (63)	+/-0.07	21.62		21.61			
43	46 (74,94,61)	+/-0.07	21.79		21.79			
44	47 (70)	+/-0.07	21.92		21.92			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	22.04		22.04			
46	49 (55,91,121)	+/-0.07	22.33		22.34			
47	50 (56,60)	+/-0.07	22.64		22.64			
48	51 (84,92,155)	+/-0.07	22.88		22.88			
49	52 (89)	+/-0.07	22.99		22.99			
50	53 (90,101)	+/-0.07	23.14		23.14			
51	54 (79,99,113)	+/-0.07	23.34		23.34			
52	55 (119,150)	+/-0.07	23.62		23.61			
53	56 (78,83,112,108)	+/-0.07	23.71		23.71			
54	57 (97,152,86)	+/-0.07	23.92		23.92			
55	58 (81,87,117,125,115,145)	+/-0.07	24.10		24.10			
56	59 (116,85,111)	+/-0.07	24.25		24.25			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0922D	CCCS0923A File ID: GC16-799-9		CCCS0923B File ID: GC16-799-12		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	24.37		24.37			
58	61 (77,110,148)	+/-0.07	24.50		24.50			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.87		24.88			
61	64 (151)	+/-0.07	25.17		25.17			
62	65 (124,135)	+/-0.07	25.31		25.31			
63	66 (144)	+/-0.07	25.37		25.37			
64	67 (107,109,147)	+/-0.07	25.44		25.43			
65	68 (123)	+/-0.07	25.54		25.53			
66	69 (106,118,139,149)	+/-0.07	25.62		25.62			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	26.03		26.02			
69	72 (122,131,133,142)	+/-0.07	26.24		26.22			
70	73 (146,165,188)	+/-0.07	26.53		26.53			
71	74 (105,132,161)	+/-0.07	26.66		26.66			
72	75 (153)	+/-0.07	26.81		26.81			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.35		27.36			
75	78 (179)	+/-0.07	27.42		27.42			
76	79 (137)	+/-0.07	27.66		27.64			
77	80 (130,176)	+/-0.07	27.79		27.79			
78	82 (138,163,164)	+/-0.07	28.02		28.02			
79	83 (158,160,186)	+/-0.07	28.21		28.20			
80	84 (126,129)	+/-0.07	28.41		28.40			
81	85 (166,178)	+/-0.07	28.76		28.76			
82	87 (175,159)	+/-0.07	29.07		29.07			
83	88 (182,187)	+/-0.07	29.21		29.22			
84	89 (128,162)	+/-0.07	29.34		29.34			
85	90 (183)	+/-0.07	29.53		29.53			
86	91 (167)	+/-0.07	29.81		29.81			
87	92 (185)	+/-0.07	30.15		30.15			
88	93 (174,181)	+/-0.07	30.52		30.52			
89	94 (177)	+/-0.07	30.79		30.80			
90	95 (156,171)	+/-0.07	31.10		31.10			
91	96 (157,202)	+/-0.07	31.37		31.36			
92	98 (173)	+/-0.07	31.54		31.56			
93	99 (201)	+/-0.07	31.92		31.92			
94	100 (172,204)	+/-0.07	32.17		32.18			
95	101 (192,197)	+/-0.07	32.47		32.46			
96	102 (180)	+/-0.07	32.66		32.66			
97	103 (193)	+/-0.07	32.92		32.90			
98	104 (191)	+/-0.07	33.23		33.22			
99	105 (200,169)	+/-0.07	33.58		33.58			
100	106 (170)	+/-0.07	34.75		34.75			
101	107 (190)	+/-0.07	35.04		35.04			
102	108 (198)	+/-0.07	35.92		35.92			
103	109 (199)	+/-0.07	36.15		36.16			
104	110 (196,203)	+/-0.07	36.70		36.71			
105	111 (189)	+/-0.07	37.93		37.87			
106	112 (195)	+/-0.07	39.47		39.47			
107	113 (208)	+/-0.07	39.98		40.02			
108	114 (207)	+/-0.07	40.97		40.98			
109	115 (194)	+/-0.07	42.41		42.40			
110	116 (205)	+/-0.07	43.28		43.32			
111	117 (206)	+/-0.07	48.56		48.57			
112	118 (209)	+/-0.07	54.75		54.74			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0922D	CCCS0924A File ID: GC16-800-5		CCCS0924B File ID: GC16-800-7		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.79		11.79			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.94		12.94			
4	5 (4,10)	+/-0.07	13.54		13.54			
5	6 (7,9)	+/-0.07	14.41		14.41			
6	7 (6)	+/-0.07	14.72		14.72			
7	8 (5,8)	+/-0.07	14.91		14.91			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.55		15.55			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.30		16.30			
13	14 (15,18)	+/-0.07	16.42		16.42			
14	15 (17)	+/-0.07	16.51		16.50			
15	16 (24,27)	+/-0.07	16.80		16.81			
16	17 (16,32)	+/-0.07	17.06		17.06			
17	19 (23,34,54)	+/-0.07	17.53		17.51			
18	20 (29)	+/-0.07	17.70		17.71			
19	21 (26)	+/-0.07	17.83		17.83			
20	22 (25)	+/-0.07	17.91		17.91			
21	23 (31)	+/-0.07	18.11		18.11			
22	24 (28,50)	+/-0.07	18.16		18.16			
23	25 (20,21,33,53)	+/-0.07	18.52		18.52			
24	26 (22,51)	+/-0.07	18.75		18.75			
25	27 (45)	+/-0.07	18.97		18.97			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.25		19.25			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.55		19.55			
30	32 (43,49)	+/-0.07	19.72		19.72			
31	33 (38,47)	+/-0.07	19.83		19.83			
32	34 (48,75)	+/-0.07	19.90		19.90			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.12		20.14			
35	37 (104,44)	+/-0.07	20.29		20.29			
36	38 (37,42,59)	+/-0.07	20.42		20.42			
37	39 (41,64,71,72)	+/-0.07	20.77		20.77			
38	41 (68,96)	+/-0.07	20.94		20.94			
39	42 (40)	+/-0.07	21.03		21.03			
40	43 (57,103)	+/-0.07	21.28		21.28			
41	44 (58,67,100)	+/-0.07	21.46		21.47			
42	45 (63)	+/-0.07	21.61		21.62			
43	46 (74,94,61)	+/-0.07	21.79		21.79			
44	47 (70)	+/-0.07	21.92		21.92			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	22.04		22.04			
46	49 (55,91,121)	+/-0.07	22.33		22.34			
47	50 (56,60)	+/-0.07	22.64		22.65			
48	51 (84,92,155)	+/-0.07	22.88		22.88			
49	52 (89)	+/-0.07	22.99		22.99			
50	53 (90,101)	+/-0.07	23.14		23.14			
51	54 (79,99,113)	+/-0.07	23.33		23.34			
52	55 (119,150)	+/-0.07	23.63		23.61			
53	56 (78,83,112,108)	+/-0.07	23.71		23.71			
54	57 (97,152,86)	+/-0.07	23.92		23.92			
55	58 (81,87,117,125,115,145)	+/-0.07	24.10		24.10			
56	59 (116,85,111)	+/-0.07	24.25		24.25			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0922D	CCCS0924A File ID: GC16-800-5		CCCS0924B File ID: GC16-800-7		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	24.37		24.37			
58	61 (77,110,148)	+/-0.07	24.51		24.50			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.87		24.88			
61	64 (151)	+/-0.07	25.17		25.17			
62	65 (124,135)	+/-0.07	25.30		25.30			
63	66 (144)	+/-0.07	25.36		25.37			
64	67 (107,109,147)	+/-0.07	25.44		25.43			
65	68 (123)	+/-0.07	25.53		25.53			
66	69 (106,118,139,149)	+/-0.07	25.62		25.62			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	26.03		26.03			
69	72 (122,131,133,142)	+/-0.07	26.24		26.23			
70	73 (146,165,188)	+/-0.07	26.53		26.52			
71	74 (105,132,161)	+/-0.07	26.66		26.66			
72	75 (153)	+/-0.07	26.81		26.81			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.35		27.35			
75	78 (179)	+/-0.07	27.42		27.42			
76	79 (137)	+/-0.07	27.64		27.64			
77	80 (130,176)	+/-0.07	27.79		27.79			
78	82 (138,163,164)	+/-0.07	28.02		28.02			
79	83 (158,160,186)	+/-0.07	28.21		28.20			
80	84 (126,129)	+/-0.07	28.41		28.41			
81	85 (166,178)	+/-0.07	28.76		28.76			
82	87 (175,159)	+/-0.07	29.07		29.07			
83	88 (182,187)	+/-0.07	29.22		29.22			
84	89 (128,162)	+/-0.07	29.33		29.33			
85	90 (183)	+/-0.07	29.53		29.53			
86	91 (167)	+/-0.07	29.79		29.81			
87	92 (185)	+/-0.07	30.14		30.14			
88	93 (174,181)	+/-0.07	30.52		30.52			
89	94 (177)	+/-0.07	30.79		30.80			
90	95 (156,171)	+/-0.07	31.10		31.11			
91	96 (157,202)	+/-0.07	31.37		31.37			
92	98 (173)	+/-0.07	31.56		31.55			
93	99 (201)	+/-0.07	31.93		31.93			
94	100 (172,204)	+/-0.07	32.17		32.18			
95	101 (192,197)	+/-0.07	32.48		32.48			
96	102 (180)	+/-0.07	32.66		32.67			
97	103 (193)	+/-0.07	32.91		32.91			
98	104 (191)	+/-0.07	33.22		33.23			
99	105 (200,169)	+/-0.07	33.58		33.58			
100	106 (170)	+/-0.07	34.75		34.76			
101	107 (190)	+/-0.07	35.04		35.04			
102	108 (198)	+/-0.07	35.93		35.93			
103	109 (199)	+/-0.07	36.16		36.15			
104	110 (196,203)	+/-0.07	36.70		36.71			
105	111 (189)	+/-0.07	37.88		37.93			
106	112 (195)	+/-0.07	39.47		39.47			
107	113 (208)	+/-0.07	39.99		39.98			
108	114 (207)	+/-0.07	40.96		40.99			
109	115 (194)	+/-0.07	42.39		42.42			
110	116 (205)	+/-0.07	43.31		43.33			
111	117 (206)	+/-0.07	48.53		48.56			
112	118 (209)	+/-0.07	54.74		54.75			

# Standards Summary Tables (GC-24)



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Set Name: GC24\_CC\_090509  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 9/5/2009 2:45:04 AM EDT  
Current Date: 9/18/2009  
Report Name: CSGB\_SumRpt\_OCNArea

**ICAL OCN Area Summary Report**

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0905A	ICAL 6.25 ng/mL	9/5/2009 5:01:29 AM EDT	174096
2	ICAL0905B	ICAL 12.5 ng/mL	9/5/2009 6:06:56 AM EDT	174435
3	ICAL0905C	ICAL 125 ng/mL	9/5/2009 7:12:23 AM EDT	160555
4	ICAL0905D	ICAL 314 ng/mL	9/5/2009 8:17:51 AM EDT	175915
5	ICAL0905E	ICAL 627 ng/mL	9/5/2009 9:23:21 AM EDT	173433
Mean				171687



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com

System Name:	Instrument_24	Date Calibrated:	9/12/2009 3:19:39 PM EDT
Sample Set Name:	GC24_CC_090509	Method Report:	CSGB CCSum by RF
Sample Set Date:	9/5/2009 2:45:04 AM EDT	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509		

**Calibration Component Summary Table  
Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)	12 (11)
1	ICAL0905A	0.025569		0.010102	0.040472	0.453784	0.159906	0.118078				
2	ICAL0905B	0.021466		0.008768	0.056491	0.428990	0.184904	0.114795		0.228956		
3	ICAL0905C	0.023108		0.010355	0.052904	0.378487	0.178973	0.097988		0.285774		
4	ICAL0905D	0.021570		0.011407	0.053125	0.355688	0.169514	0.091267		0.289225		
5	ICAL0905E				0.051459					0.273195		
6	SC0905A		0.002451						0.133518		0.501489	0.057030
Mean		0.023	0.002	0.010	0.051	0.404	0.173	0.106	0.134	0.269	0.501	0.057
Std. Dev.		0.002		0.001	0.006	0.045	0.011	0.013		0.028		
% RSD		8.35		10.68	12.00	11.14	6.33	12.28		10.31		

**Calibration Component Summary Table  
Component Summary For RF**

	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)	24 (28,50)
1		0.304780	0.177111	0.534430	0.276122			0.346934	0.479575	0.475944	0.588608
2	0.250106	0.318385	0.201857	0.408503	0.279453		0.491689	0.342196	0.456559	0.454046	0.564159
3	0.221933	0.281233	0.189829	0.458770	0.264068		0.428643	0.318917	0.443499	0.374251	0.507807
4	0.238235	0.264584	0.169207	0.491513	0.245864		0.407619	0.316625	0.449445	0.369187	0.455761
5				0.447443							
6						0.304293					
Mean	0.237	0.292	0.185	0.468	0.266	0.304	0.443	0.331	0.457	0.418	0.529
Std. Dev.	0.014	0.024	0.014	0.047	0.015		0.044	0.016	0.016	0.055	0.059
% RSD	5.97	8.21	7.78	10.14	5.70		9.88	4.72	3.46	13.06	11.24

**Calibration Component Summary Table  
Component Summary For RF**

	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)	34 (48,75)	35 (62,65)
1	0.384620	0.385273	0.517646		0.297911		0.316137	0.540147	0.971816	0.572753	
2	0.377401	0.355032	0.446600		0.321612		0.325482	0.596100	1.051767	0.622778	
3	0.353874	0.338700	0.381422		0.337993		0.288623	0.570479	0.814897	0.611872	
4	0.340319	0.328576	0.378985		0.332919		0.265534	0.529619	0.741216	0.563862	
5											
6				0.242069		0.231103					0.608916
Mean	0.364	0.352	0.431	0.242	0.323	0.231	0.299	0.559	0.895	0.593	0.609
Std. Dev.	0.021	0.025	0.066		0.018		0.027	0.030	0.142	0.029	

**Calibration Component Summary Table**

**Component Summary For RF**

	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)	34 (48,75)	35 (62,65)
% RSD	5.65	7.04	15.22		5.53		9.11	5.39	15.87	4.87	

**Calibration Component Summary Table**

**Component Summary For RF**

	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)	45 (63)	46 (74,94,61)
1		0.596513	0.388614	0.661969		0.442060			0.595151	0.887465
2		0.591854	0.360980	0.616187		0.448684		0.661124	0.603714	0.931292
3		0.429660	0.375160	0.570982		0.483803		0.595017	0.604322	0.825838
4		0.410598	0.344798	0.532879		0.467420		0.610523	0.603235	0.780757
5										
6	0.232451				0.329906		0.463251			
Mean	0.232	0.507	0.367	0.596	0.330	0.460	0.463	0.622	0.602	0.856
Std. Dev.		0.101	0.019	0.056		0.019		0.035	0.004	0.066
% RSD		19.88	5.12	9.38		4.10		5.56	0.72	7.75

**Calibration Component Summary Table**

**Component Summary For RF**

	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)	53 (90,101)	54 (79,99,113)	
1	0.778148		0.530585	0.392016	0.758692	0.332716		0.696036	0.883810
2	0.778764		0.523424	0.457108	0.736834	0.277144	0.540534	0.679344	0.929468
3	0.677720		0.458434	0.520488	0.677229	0.271733	0.528638	0.582795	0.895937
4	0.622526		0.420500	0.533713	0.640370	0.253954	0.537245	0.535419	0.839469
5									
6									
Mean	0.714		0.483	0.476	0.703	0.284	0.535	0.623	0.887
Std. Dev.	0.077		0.053	0.065	0.054	0.034	0.006	0.077	0.037
% RSD	10.84		10.96	13.68	7.72	11.99	1.15	12.35	4.19

**Calibration Component Summary Table**

**Component Summary For RF**

	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)	60 (120,136)	61 (77,110,148)	
1			0.781065		0.704172	0.711822	0.433030	0.657727
2	1.028846	0.459555	0.653509		0.605329	0.778595	0.406826	0.649250
3	1.062946	0.454932	0.756591		0.650077	0.777385	0.458784	0.640450
4	1.312314	0.509624	0.716784		0.586103	0.760743	0.431303	0.599532
5								
6								
Mean	1.135	0.475	0.727		0.636	0.757	0.432	0.637
Std. Dev.	0.155	0.030	0.056		0.053	0.031	0.021	0.026
% RSD	13.64	6.39	7.66		8.25	4.13	4.91	4.05

**Calibration Component Summary Table**

**Component Summary For RF**

	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)	69 (106,118,139,149)	70 (140)
1		0.967847	0.721703	0.819231	0.379426			0.811535	
2		0.860089	0.710590	1.082213	0.404982	0.600115		0.850635	

**Calibration Component Summary Table**

**Component Summary For RF**

	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)	69 (106,118,139,149)	70 (140)
3		0.792043	0.631216	1.013167	0.417718	0.553335		0.718080	
4		0.728780	0.591776	0.988978	0.404397	0.637067		0.654409	
5									
6	0.547924						0.633456		0.645169
Mean	0.548	0.837	0.664	0.976	0.402	0.597	0.633	0.759	0.645
Std. Dev.		0.102	0.063	0.112	0.016	0.042		0.089	
% RSD		12.22	9.44	11.44	3.99	7.03		11.73	

**Calibration Component Summary Table**

**Component Summary For RF**

	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)	76 (127,168,184)	77 (141)	78 (179)
1	0.711167		0.872718	0.943815	1.001140		0.574647	0.883157
2	0.603808	1.342899	0.707060	0.937875	1.019248		0.539479	0.797252
3	0.657953	0.948089	0.759780	0.914564	0.890566		0.523307	0.698046
4	0.662912	1.060512	0.717144	0.865106	0.794931		0.495873	0.616298
5								
6						0.554248		
Mean	0.659	1.117	0.764	0.915	0.926	0.554	0.533	0.749
Std. Dev.	0.044	0.203	0.076	0.036	0.105		0.033	0.116
% RSD	6.66	18.21	9.93	3.91	11.28		6.17	15.53

**Calibration Component Summary Table**

**Component Summary For RF**

	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)	87 (175,159)	88 (182,187)	89 (128,162)
1		1.326009	0.968253	0.976076		0.514119		0.988544	
2	0.754952	1.387807	0.933570	0.659597	2.208340	0.486767	0.396278	0.958836	1.405179
3	0.684324	1.462045	0.819064	0.919256	1.995557	0.439645	0.461927	0.800313	1.353594
4	0.562287	1.325956	0.752744	0.877758	2.111957	0.409011	0.464309	0.729096	1.207982
5									
6									
Mean	0.667	1.375	0.868	0.858	2.105	0.462	0.441	0.869	1.322
Std. Dev.	0.097	0.065	0.100	0.138	0.107	0.047	0.039	0.125	0.102
% RSD	14.61	4.70	11.52	16.13	5.06	10.17	8.76	14.35	7.73

**Calibration Component Summary Table**

**Component Summary For RF**

	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)	98 (173)	99 (201)	100 (172,204)
1	0.820158		1.073326	1.051849	0.948964	0.757672	4.573081		0.836681	0.486343
2	0.810613	0.550457	1.113177	0.900951	0.790533	0.717422	5.155113	0.850962	0.725599	0.702080
3	0.780816	0.611216	1.129074	0.778793	0.701796	0.734305	5.373261	0.829099	0.719811	0.679006
4	0.725598	0.715139	1.084920	0.725804	0.659618	0.724927	5.284116	1.024078	0.683179	0.667116
5										
6										
Mean	0.784	0.626	1.100	0.864	0.775	0.734	5.096	0.901	0.741	0.634
Std. Dev.	0.043	0.083	0.026	0.145	0.128	0.017	0.360	0.107	0.066	0.099

**Calibration Component Summary Table**

**Component Summary For RF**

	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)	98 (173)	99 (201)	100 (172,204)
% RSD	5.43	13.31	2.32	16.77	16.52	2.38	7.07	11.85	8.94	15.67

**Calibration Component Summary Table**

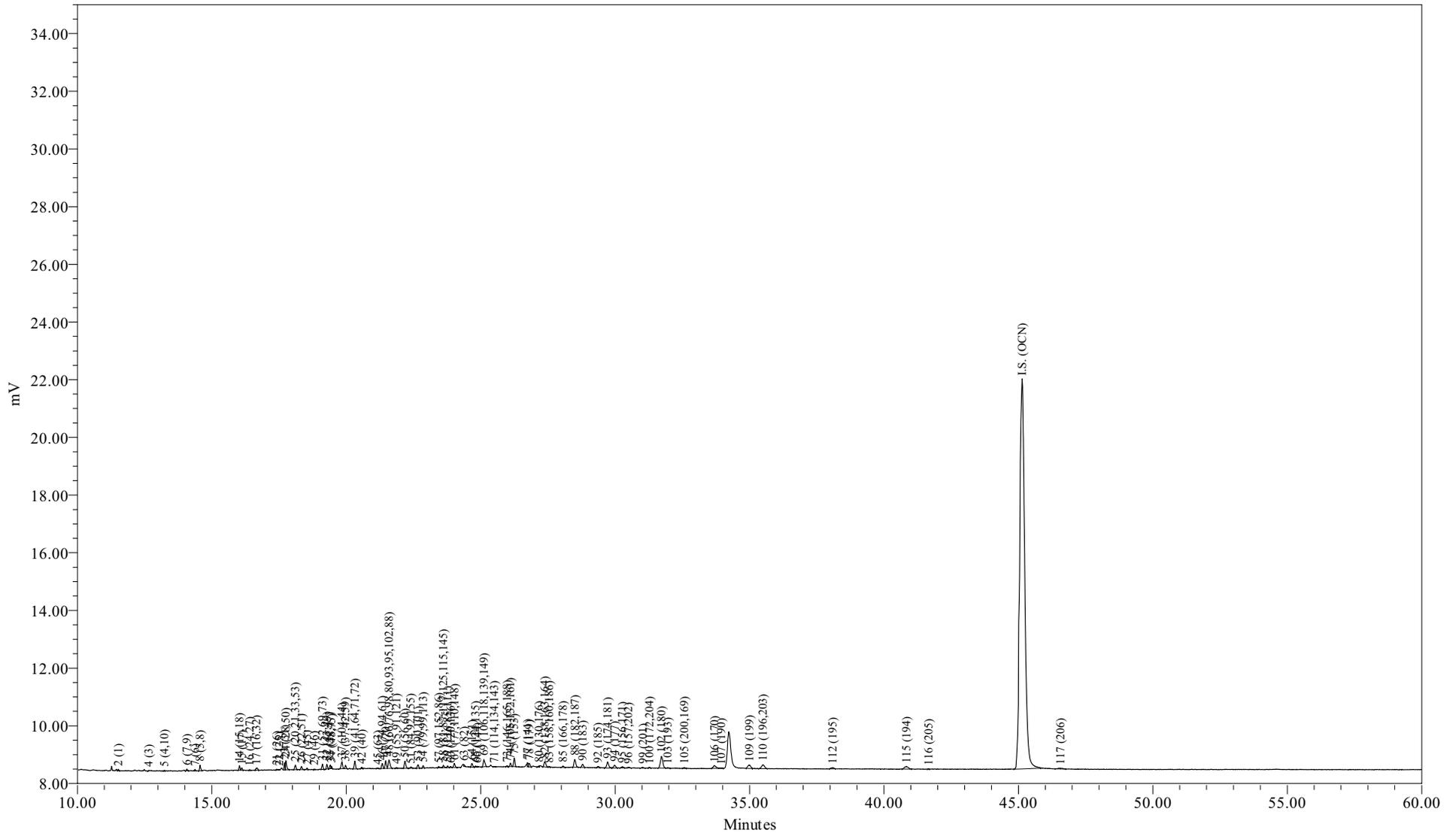
**Component Summary For RF**

	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)	108 (198)	109 (199)	110 (196,203)	111 (189)
1		1.185172	0.778985		0.942281	1.691920	1.278822		0.621500	0.717371	
2	0.639871	1.122133	0.744579	0.541056	0.852933	1.774319	1.358312	1.318045	0.629518	0.710726	1.056137
3	0.588133	0.923145	0.798001	0.716184	0.807111	1.434624	1.271034	1.271500	0.562202	0.608427	1.060327
4	0.623781	0.837233	0.767223	0.742400	0.802791	1.340599	1.198131	1.113500	0.513124	0.565648	1.167741
5											
6											
Mean	0.617	1.017	0.772	0.667	0.851	1.560	1.277	1.234	0.582	0.651	1.095
Std. Dev.	0.026	0.164	0.022	0.109	0.065	0.206	0.065	0.107	0.055	0.075	0.063
% RSD	4.29	16.10	2.90	16.42	7.61	13.20	5.13	8.69	9.39	11.59	5.78

**Calibration Component Summary Table**

**Component Summary For RF**

	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1	1.567269			1.452409	0.923063	1.211851	
2	1.512664	0.568471	1.312363	1.424863	0.920296	1.404364	1.246800
3	1.689191	0.625344	1.166917	1.338972	0.946775	1.256191	1.317078
4	1.593227	0.611808	1.158538	1.272350	0.990884	1.255595	1.087888
5							
6							
Mean	1.591	0.602	1.213	1.372	0.945	1.282	1.217
Std. Dev.	0.074	0.030	0.086	0.082	0.033	0.084	0.117
% RSD	4.64	4.94	7.13	5.99	3.46	6.57	9.65



Sample Name: ICAL0905A  
Sample ID: ICAL 6.25 ng/mL  
Date Acquired: 9/5/2009 5:01:29 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-3



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com

Sample Name:	ICAL0905A	Sample Amount:	1
Sample ID:	ICAL 6.25 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 5:01:29 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/12/2009 3:19:06 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:54:12 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-3

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.518	107	0.439	0.439	0.025569
2	3 (2)	12.517				
3	4 (3)	12.655	25	0.256	0.256	0.010102
4	5 (4,10)	13.238	48	0.124	0.124	0.040472
5	6 (7,9)	14.074	191	0.044	0.044	0.453784
6	7 (6)	14.380	106	0.069	0.069	0.159906
7	8 (5,8)	14.563	579	0.512	0.512	0.118078
8	9 (14)	15.113				
9	10 (19)	15.177				
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.921				
13	14 (15,18)	16.027	395	0.135	0.135	0.304780
14	15 (17)	16.115	229	0.135	0.135	0.177111
15	16 (24,27)	16.414	49	0.009	0.009	0.534430
16	17 (16,32)	16.660	377	0.143	0.143	0.276122
17	19 (23,34,54)	17.114				
18	20 (29)	17.294				
19	21 (26)	17.422	87	0.026	0.026	0.346934
20	22 (25)	17.511	54	0.012	0.012	0.479575
21	23 (31)	17.712	687	0.151	0.151	0.475944
22	24 (28,50)	17.756	1087	0.193	0.193	0.588608
23	25 (20,21,33,53)	18.109	535	0.145	0.145	0.384620
24	26 (22,51)	18.336	391	0.106	0.106	0.385273
25	27 (45)	18.548	161	0.033	0.033	0.517646
26	28 (36)	18.694				
27	29 (46)	18.813	42	0.015	0.015	0.297911
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.115	528	0.174	0.174	0.316137
30	32 (43,49)	19.281	435	0.084	0.084	0.540147
31	33 (38,47)	19.408	340	0.037	0.037	0.971816
32	34 (48,75)	19.450	200	0.037	0.037	0.572753
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.842	898	0.157	0.157	0.596513
36	38 (37,42,59)	19.971	354	0.095	0.095	0.388614
37	39 (41,64,71,72)	20.317	950	0.150	0.150	0.661969
38	41 (68,96)	20.471				
39	42 (40)	20.579	145	0.034	0.034	0.442060
40	43 (57,103)	20.825				
41	44 (58,67,100)	21.006				
42	45 (63)	21.177	44	0.008	0.008	0.595151
43	46 (74,94,61)	21.340	590	0.069	0.069	0.887465
44	47 (70)	21.470	926	0.124	0.124	0.778148
45	48 (66,76,98,80,93,95,102,88)	21.590	1337	0.263	0.263	0.530585
46	49 (55,91,121)	21.868	70	0.019	0.019	0.392016
47	50 (56,60)	22.186	929	0.128	0.128	0.758692
48	51 (84,92,155)	22.399	210	0.066	0.066	0.332716
49	52 (89)	22.507				
50	53 (90,101)	22.677	438	0.066	0.066	0.696036
51	54 (79,99,113)	22.864	229	0.027	0.027	0.883810
52	55 (119,150)	23.134				
53	56 (78,83,112,108)	23.229				
54	57 (97,152,86)	23.442	153	0.020	0.020	0.781065
55	58 (81,87,117,125,115,145)	23.617	286	0.042	0.042	0.704172
56	59 (116,85,111)	23.769	174	0.026	0.026	0.711822
57	60 (120,136)	23.889	114	0.027	0.027	0.433030
58	61 (77,110,148)	24.024	490	0.078	0.078	0.657727
59	62 (154)	24.292				
60	63 (82)	24.376	149	0.016	0.016	0.967847
61	64 (151)	24.678	429	0.062	0.062	0.721703
62	65 (124,135)	24.810	83	0.011	0.011	0.819231
63	66 (144)	24.874	80	0.022	0.022	0.379426
64	67 (107,109,147)	24.951				
65	68 (123)	25.036				
66	69 (106,118,139,149)	25.119	1136	0.146	0.146	0.811535
67	70 (140)	25.235				
68	71 (114,134,143)	25.507	50	0.007	0.007	0.711167
69	72 (122,131,133,142)	25.713				
70	73 (146,165,188)	25.985	119	0.014	0.014	0.872718

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.108	448	0.050	0.050	0.943815
72	75 (153)	26.253	1032	0.108	0.108	1.001140
73	76 (127,168,184)	26.366				
74	77 (141)	26.742	342	0.062	0.062	0.574647
75	78 (179)	26.810	451	0.053	0.053	0.883157
76	79 (137)	27.020				
77	80 (130,176)	27.171	121	0.009	0.009	1.326009
78	82 (138,163,164)	27.382	915	0.099	0.099	0.968253
79	83 (158,160,186)	27.553	85	0.009	0.009	0.976076
80	84 (126,129)	27.736				
81	85 (166,178)	28.062	198	0.040	0.040	0.514119
82	87 (175,159)	28.360				
83	88 (182,187)	28.503	1246	0.132	0.132	0.988544
84	89 (128,162)	28.621				
85	90 (183)	28.799	488	0.062	0.062	0.820158
86	91 (167)	29.046				
87	92 (185)	29.359	177	0.017	0.017	1.073326
88	93 (174,181)	29.721	1178	0.117	0.117	1.051849
89	94 (177)	29.974	565	0.062	0.062	0.948964
90	95 (156,171)	30.269	210	0.029	0.029	0.757672
91	96 (157,202)	30.494	106	0.002	0.002	4.573081
92	98 (173)	30.680				
93	99 (201)	31.034	114	0.014	0.014	0.836681
94	100 (172,204)	31.279	95	0.020	0.020	0.486343
95	101 (192,197)	31.542				
96	102 (180)	31.729	2530	0.223	0.223	1.185172
97	103 (193)	31.958	115	0.015	0.015	0.778985
98	104 (191)	32.250				
99	105 (200,169)	32.579	142	0.016	0.016	0.942281
100	106 (170)	33.695	758	0.047	0.047	1.691920
101	107 (190)	33.953	188	0.015	0.015	1.278822
102	108 (198)	34.755				
103	109 (199)	34.995	914	0.154	0.154	0.621500
104	110 (196,203)	35.498	1080	0.157	0.157	0.717371
105	111 (189)	36.642				
106	112 (195)	38.095	303	0.020	0.020	1.567269
107	113 (208)	38.594				
108	114 (207)	39.486				
109	115 (194)	40.837	915	0.066	0.066	1.452409
110	116 (205)	41.665	36	0.004	0.004	0.923063
111	I.S. (OCN)	45.143	174096	18.180	18.180	9576.225943
112	117 (206)	46.566	288	0.025	0.025	1.211851

**Peak Results**

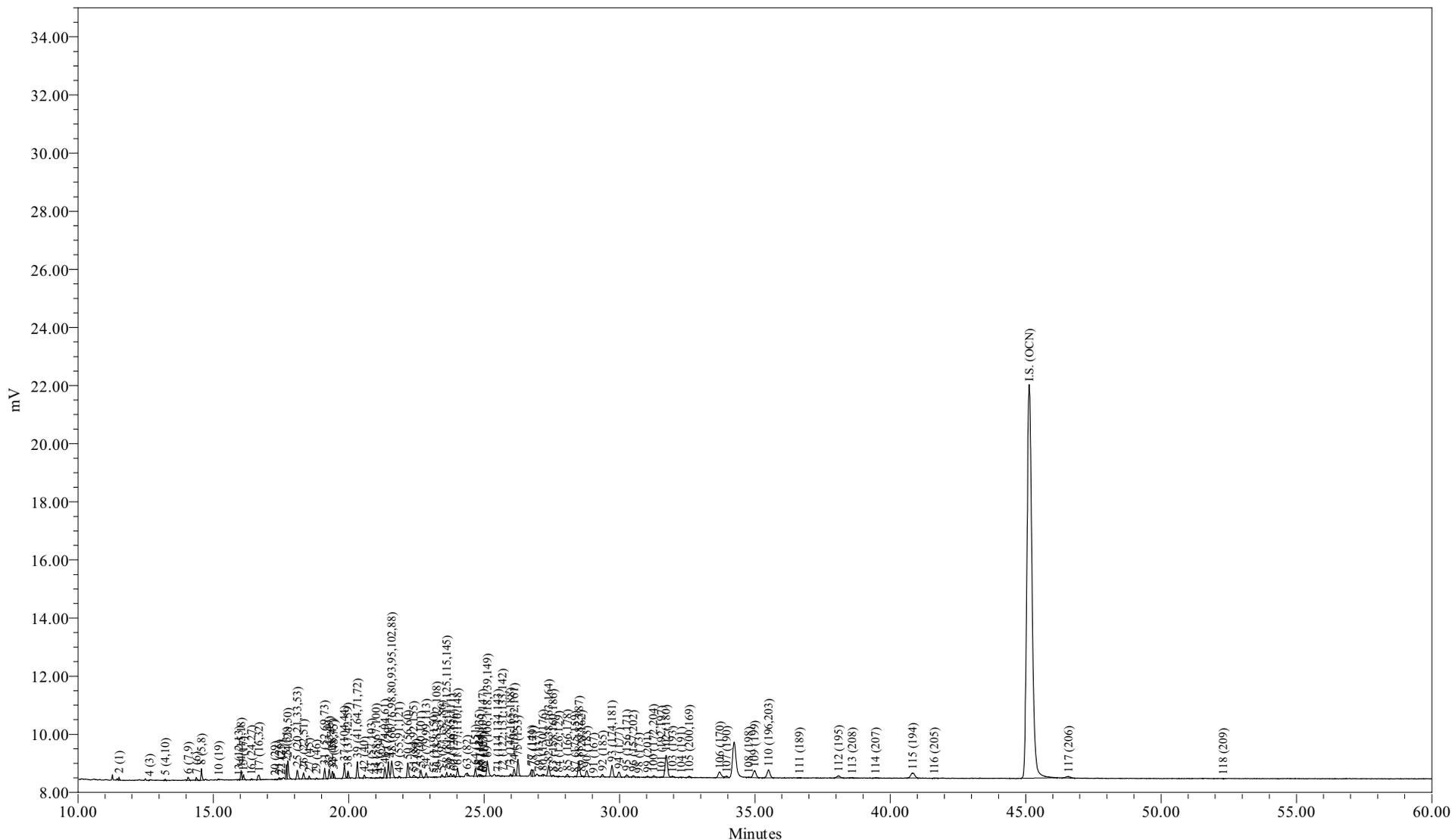
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.297				



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Sample Name: ICAL0905B  
Sample ID: ICAL 12.5 ng/mL  
Date Acquired: 9/5/2009 6:06:56 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-4



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com

Sample Name:	ICAL0905B	Sample Amount:	1
Sample ID:	ICAL 12.5 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 6:06:56 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/12/2009 3:19:19 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:17 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-4

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.519	181	0.877	0.877	0.021466
2	3 (2)	12.517				
3	4 (3)	12.650	43	0.512	0.512	0.008768
4	5 (4,10)	13.224	135	0.249	0.249	0.056491
5	6 (7,9)	14.071	361	0.088	0.088	0.428990
6	7 (6)	14.375	246	0.139	0.139	0.184904
7	8 (5,8)	14.563	1127	1.023	1.023	0.114795
8	9 (14)	15.113				
9	10 (19)	15.203	45	0.020	0.020	0.228956
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.942	47	0.020	0.020	0.250106
13	14 (15,18)	16.027	826	0.270	0.270	0.318385
14	15 (17)	16.114	524	0.270	0.270	0.201857
15	16 (24,27)	16.409	74	0.019	0.019	0.408503
16	17 (16,32)	16.685	764	0.285	0.285	0.279453
17	19 (23,34,54)	17.114				
18	20 (29)	17.277	18	0.004	0.004	0.491689
19	21 (26)	17.435	173	0.053	0.053	0.342196
20	22 (25)	17.514	102	0.023	0.023	0.456559
21	23 (31)	17.705	1313	0.301	0.301	0.454046
22	24 (28,50)	17.754	2088	0.386	0.386	0.564159
23	25 (20,21,33,53)	18.104	1051	0.290	0.290	0.377401
24	26 (22,51)	18.335	722	0.212	0.212	0.355032
25	27 (45)	18.543	279	0.065	0.065	0.446600
26	28 (36)	18.694				
27	29 (46)	18.806	90	0.029	0.029	0.321612
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.111	1089	0.349	0.349	0.325482
30	32 (43,49)	19.280	962	0.168	0.168	0.596100
31	33 (38,47)	19.401	738	0.073	0.073	1.051767
32	34 (48,75)	19.450	437	0.073	0.073	0.622778
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.841	1785	0.314	0.314	0.591854
36	38 (37,42,59)	19.973	658	0.190	0.190	0.360980
37	39 (41,64,71,72)	20.317	1772	0.300	0.300	0.616187
38	41 (68,96)	20.471				
39	42 (40)	20.576	296	0.069	0.069	0.448684
40	43 (57,103)	20.837	13			
41	44 (58,67,100)	21.012	51	0.008	0.008	0.661124
42	45 (63)	21.157	89	0.015	0.015	0.603714
43	46 (74,94,61)	21.335	1241	0.139	0.139	0.931292
44	47 (70)	21.466	1857	0.249	0.249	0.778764
45	48 (66,76,98,80,93,95,102,88)	21.585	2643	0.526	0.526	0.523424
46	49 (55,91,121)	21.860	164	0.037	0.037	0.457108
47	50 (56,60)	22.186	1809	0.256	0.256	0.736834
48	51 (84,92,155)	22.401	350	0.132	0.132	0.277144
49	52 (89)	22.487	38	0.007	0.007	0.540534
50	53 (90,101)	22.668	858	0.132	0.132	0.679344
51	54 (79,99,113)	22.861	482	0.054	0.054	0.929468
52	55 (119,150)	23.146	20	0.002	0.002	1.028846
53	56 (78,83,112,108)	23.248	48	0.011	0.011	0.459555
54	57 (97,152,86)	23.451	257	0.041	0.041	0.653509
55	58 (81,87,117,125,115,145)	23.620	492	0.085	0.085	0.605329
56	59 (116,85,111)	23.770	382	0.051	0.051	0.778595
57	60 (120,136)	23.875	214	0.055	0.055	0.406826
58	61 (77,110,148)	24.023	970	0.156	0.156	0.649250
59	62 (154)	24.292				
60	63 (82)	24.374	265	0.032	0.032	0.860089
61	64 (151)	24.678	847	0.124	0.124	0.710590
62	65 (124,135)	24.815	220	0.021	0.021	1.082213
63	66 (144)	24.876	170	0.044	0.044	0.404982
64	67 (107,109,147)	24.951	55	0.009	0.009	0.600115
65	68 (123)	24.975	39			
66	69 (106,118,139,149)	25.120	2386	0.292	0.292	0.850635
67	70 (140)	25.235				
68	71 (114,134,143)	25.499	86	0.015	0.015	0.603808
69	72 (122,131,133,142)	25.680	27	0.002	0.002	1.342899
70	73 (146,165,188)	25.977	193	0.029	0.029	0.707060

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.111	891	0.099	0.099	0.937875
72	75 (153)	26.252	2105	0.215	0.215	1.019248
73	76 (127,168,184)	26.366				
74	77 (141)	26.755	643	0.124	0.124	0.539479
75	78 (179)	26.811	816	0.107	0.107	0.797252
76	79 (137)	27.024	40	0.005	0.005	0.754952
77	80 (130,176)	27.175	253	0.019	0.019	1.387807
78	82 (138,163,164)	27.389	1768	0.197	0.197	0.933570
79	83 (158,160,186)	27.555	116	0.018	0.018	0.659597
80	84 (126,129)	27.757	20	0.001	0.001	2.208340
81	85 (166,178)	28.074	375	0.080	0.080	0.486767
82	87 (175,159)	28.353	56	0.015	0.015	0.396278
83	88 (182,187)	28.506	2421	0.263	0.263	0.958836
84	89 (128,162)	28.601	99	0.007	0.007	1.405179
85	90 (183)	28.794	966	0.124	0.124	0.810613
86	91 (167)	29.049	19	0.004	0.004	0.550457
87	92 (185)	29.376	367	0.034	0.034	1.113177
88	93 (174,181)	29.720	2022	0.234	0.234	0.900951
89	94 (177)	29.975	943	0.124	0.124	0.790533
90	95 (156,171)	30.263	398	0.058	0.058	0.717422
91	96 (157,202)	30.505	239	0.005	0.005	5.155113
92	98 (173)	30.705	23	0.003	0.003	0.850962
93	99 (201)	31.040	199	0.029	0.029	0.725599
94	100 (172,204)	31.259	276	0.041	0.041	0.702080
95	101 (192,197)	31.548	49	0.008	0.008	0.639871
96	102 (180)	31.728	4801	0.446	0.446	1.122133
97	103 (193)	31.951	219	0.031	0.031	0.744579
98	104 (191)	32.275	46	0.009	0.009	0.541056
99	105 (200,169)	32.576	257	0.031	0.031	0.852933
100	106 (170)	33.706	1593	0.094	0.094	1.774319
101	107 (190)	33.962	400	0.031	0.031	1.358312
102	108 (198)	34.774	111	0.009	0.009	1.318045
103	109 (199)	34.983	1854	0.307	0.307	0.629518
104	110 (196,203)	35.503	2143	0.314	0.314	0.710726
105	111 (189)	36.653	30	0.003	0.003	1.056137
106	112 (195)	38.091	587	0.040	0.040	1.512664
107	113 (208)	38.600	98	0.018	0.018	0.568471
108	114 (207)	39.461	86	0.007	0.007	1.312363
109	115 (194)	40.829	1799	0.132	0.132	1.424863
110	116 (205)	41.631	71	0.008	0.008	0.920296
111	I.S. (OCN)	45.134	174435	18.180	18.180	9594.894062
112	117 (206)	46.584	670	0.050	0.050	1.404364

### Peak Results

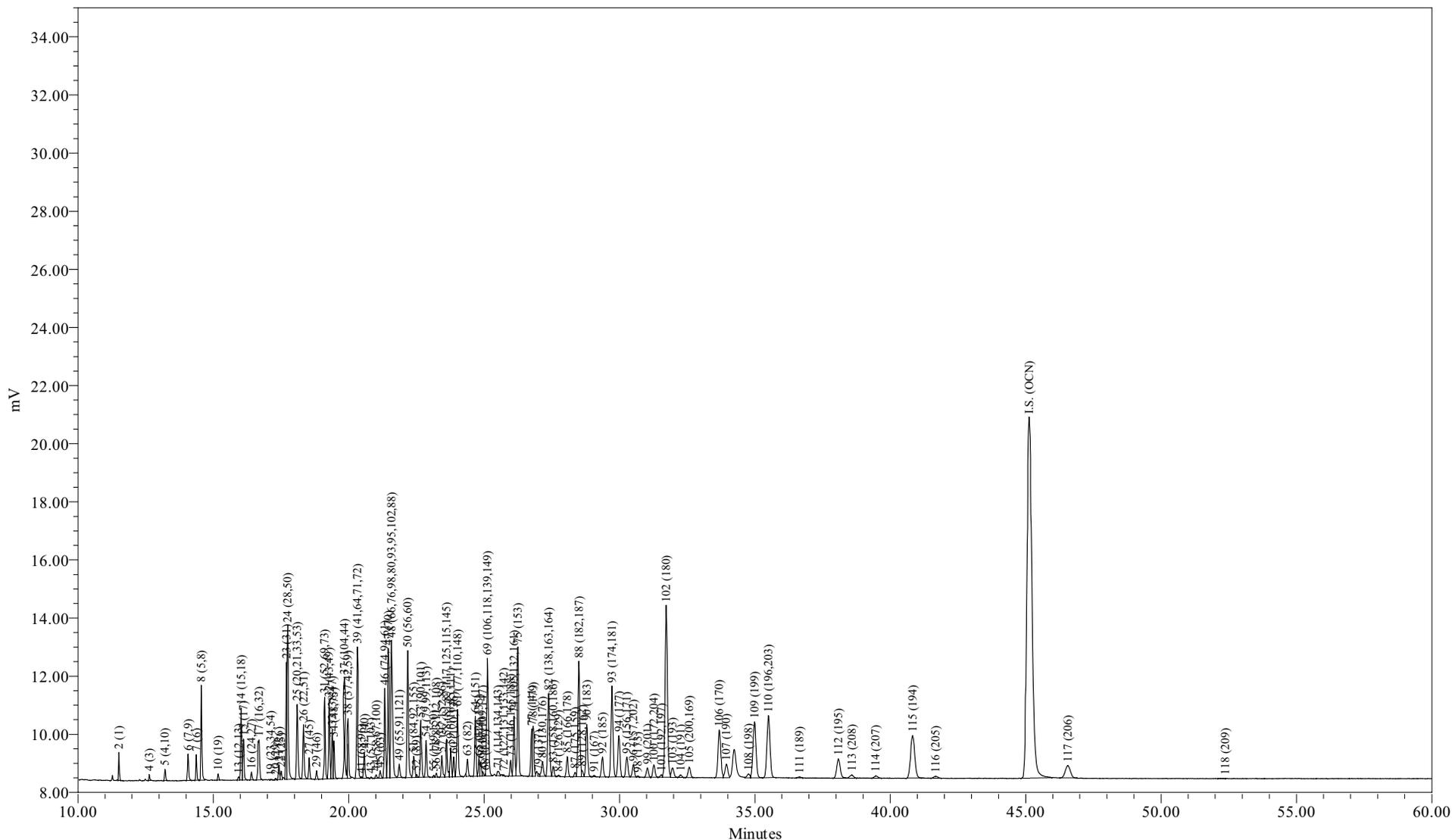
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.291	11	0.001	0.001	1.246800



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Sample Name: ICAL0905C  
Sample ID: ICAL 125 ng/mL  
Date Acquired: 9/5/2009 7:12:23 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-5



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name:	ICAL0905C	Sample Amount:	1
Sample ID:	ICAL 125 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 7:12:23 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/12/2009 3:19:26 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:24 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-5

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.515	1790	8.771	8.771	0.023108
2	3 (2)	12.517				
3	4 (3)	12.633	468	5.117	5.117	0.010355
4	5 (4,10)	13.214	1161	2.485	2.485	0.052904
5	6 (7,9)	14.069	2932	0.877	0.877	0.378487
6	7 (6)	14.372	2195	1.389	1.389	0.178973
7	8 (5,8)	14.557	8856	10.233	10.233	0.097988
8	9 (14)	15.113				
9	10 (19)	15.178	517	0.205	0.205	0.285774
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.936	382	0.195	0.195	0.221933
13	14 (15,18)	16.026	6717	2.704	2.704	0.281233
14	15 (17)	16.112	4534	2.704	2.704	0.189829
15	16 (24,27)	16.410	770	0.190	0.190	0.458770
16	17 (16,32)	16.687	6648	2.851	2.851	0.264068
17	19 (23,34,54)	17.122	84			
18	20 (29)	17.296	147	0.039	0.039	0.428643
19	21 (26)	17.426	1482	0.526	0.526	0.318917
20	22 (25)	17.506	916	0.234	0.234	0.443499
21	23 (31)	17.700	9961	3.014	3.014	0.374251
22	24 (28,50)	17.748	17298	3.857	3.857	0.507807
23	25 (20,21,33,53)	18.098	9073	2.903	2.903	0.353874
24	26 (22,51)	18.330	6341	2.120	2.120	0.338700
25	27 (45)	18.542	2191	0.650	0.650	0.381422
26	28 (36)	18.694				
27	29 (46)	18.815	873	0.292	0.292	0.337993
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.112	8887	3.487	3.487	0.288623
30	32 (43,49)	19.279	8470	1.681	1.681	0.570479
31	33 (38,47)	19.393	5261	0.731	0.731	0.814897
32	34 (48,75)	19.453	3950	0.731	0.731	0.611872
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.842	11927	3.143	3.143	0.429660
36	38 (37,42,59)	19.973	6297	1.901	1.901	0.375160
37	39 (41,64,71,72)	20.317	15112	2.997	2.997	0.570982
38	41 (68,96)	20.474	177			
39	42 (40)	20.576	2936	0.687	0.687	0.483803
40	43 (57,103)	20.822	165			
41	44 (58,67,100)	21.014	422	0.080	0.080	0.595017
42	45 (63)	21.164	819	0.154	0.154	0.604322
43	46 (74,94,61)	21.332	10129	1.389	1.389	0.825838
44	47 (70)	21.461	14874	2.485	2.485	0.677720
45	48 (66,76,98,80,93,95,102,88)	21.579	21307	5.263	5.263	0.458434
46	49 (55,91,121)	21.867	1714	0.373	0.373	0.520488
47	50 (56,60)	22.180	15301	2.558	2.558	0.677229
48	51 (84,92,155)	22.400	3157	1.316	1.316	0.271733
49	52 (89)	22.502	341	0.073	0.073	0.528638
50	53 (90,101)	22.668	6772	1.316	1.316	0.582795
51	54 (79,99,113)	22.860	4280	0.541	0.541	0.895937
52	55 (119,150)	23.138	192	0.020	0.020	1.062946
53	56 (78,83,112,108)	23.234	440	0.110	0.110	0.454932
54	57 (97,152,86)	23.442	2735	0.409	0.409	0.756591
55	58 (81,87,117,125,115,145)	23.617	4868	0.848	0.848	0.650077
56	59 (116,85,111)	23.769	3513	0.512	0.512	0.777385
57	60 (120,136)	23.882	2221	0.548	0.548	0.458784
58	61 (77,110,148)	24.020	8806	1.557	1.557	0.640450
59	62 (154)	24.292				
60	63 (82)	24.386	2249	0.322	0.322	0.792043
61	64 (151)	24.678	6927	1.243	1.243	0.631216
62	65 (124,135)	24.812	1897	0.212	0.212	1.013167
63	66 (144)	24.874	1618	0.439	0.439	0.417718
64	67 (107,109,147)	24.950	464	0.095	0.095	0.553335
65	68 (123)	25.047	108			
66	69 (106,118,139,149)	25.122	18542	2.924	2.924	0.718080
67	70 (140)	25.235				
68	71 (114,134,143)	25.510	858	0.148	0.148	0.657953
69	72 (122,131,133,142)	25.726	178	0.021	0.021	0.948089
70	73 (146,165,188)	25.983	1913	0.285	0.285	0.759780

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.106	7999	0.990	0.990	0.914564
72	75 (153)	26.249	16931	2.153	2.153	0.890566
73	76 (127,168,184)	26.366				
74	77 (141)	26.759	5743	1.243	1.243	0.523307
75	78 (179)	26.810	6579	1.067	1.067	0.698046
76	79 (137)	27.017	331	0.055	0.055	0.684324
77	80 (130,176)	27.157	2453	0.190	0.190	1.462045
78	82 (138,163,164)	27.380	14276	1.974	1.974	0.819064
79	83 (158,160,186)	27.555	1483	0.183	0.183	0.919256
80	84 (126,129)	27.753	167	0.009	0.009	1.995557
81	85 (166,178)	28.073	3122	0.804	0.804	0.439645
82	87 (175,159)	28.357	596	0.146	0.146	0.461927
83	88 (182,187)	28.501	18598	2.631	2.631	0.800313
84	89 (128,162)	28.617	874	0.073	0.073	1.353594
85	90 (183)	28.792	8569	1.243	1.243	0.780816
86	91 (167)	29.059	194	0.036	0.036	0.611216
87	92 (185)	29.374	3425	0.343	0.343	1.129074
88	93 (174,181)	29.721	16087	2.339	2.339	0.778793
89	94 (177)	29.979	7701	1.243	1.243	0.701796
90	95 (156,171)	30.270	3745	0.578	0.578	0.734305
91	96 (157,202)	30.509	2291	0.048	0.048	5.373261
92	98 (173)	30.677	203	0.028	0.028	0.829099
93	99 (201)	31.031	1813	0.285	0.285	0.719811
94	100 (172,204)	31.270	2454	0.409	0.409	0.679006
95	101 (192,197)	31.544	418	0.080	0.080	0.588133
96	102 (180)	31.729	36351	4.459	4.459	0.923145
97	103 (193)	31.953	2164	0.307	0.307	0.798001
98	104 (191)	32.261	555	0.088	0.088	0.716184
99	105 (200,169)	32.577	2240	0.314	0.314	0.807111
100	106 (170)	33.681	11854	0.936	0.936	1.434624
101	107 (190)	33.948	3446	0.307	0.307	1.271034
102	108 (198)	34.763	985	0.088	0.088	1.271500
103	109 (199)	34.986	15243	3.070	3.070	0.562202
104	110 (196,203)	35.500	16889	3.143	3.143	0.608427
105	111 (189)	36.652	273	0.029	0.029	1.060327
106	112 (195)	38.084	6029	0.404	0.404	1.689191
107	113 (208)	38.581	997	0.180	0.180	0.625344
108	114 (207)	39.458	701	0.068	0.068	1.166917
109	115 (194)	40.826	15558	1.316	1.316	1.338972
110	116 (205)	41.673	672	0.080	0.080	0.946775
111	I.S. (OCN)	45.126	160555	18.180	18.180	8831.424357
112	117 (206)	46.558	5513	0.497	0.497	1.256191

**Peak Results**

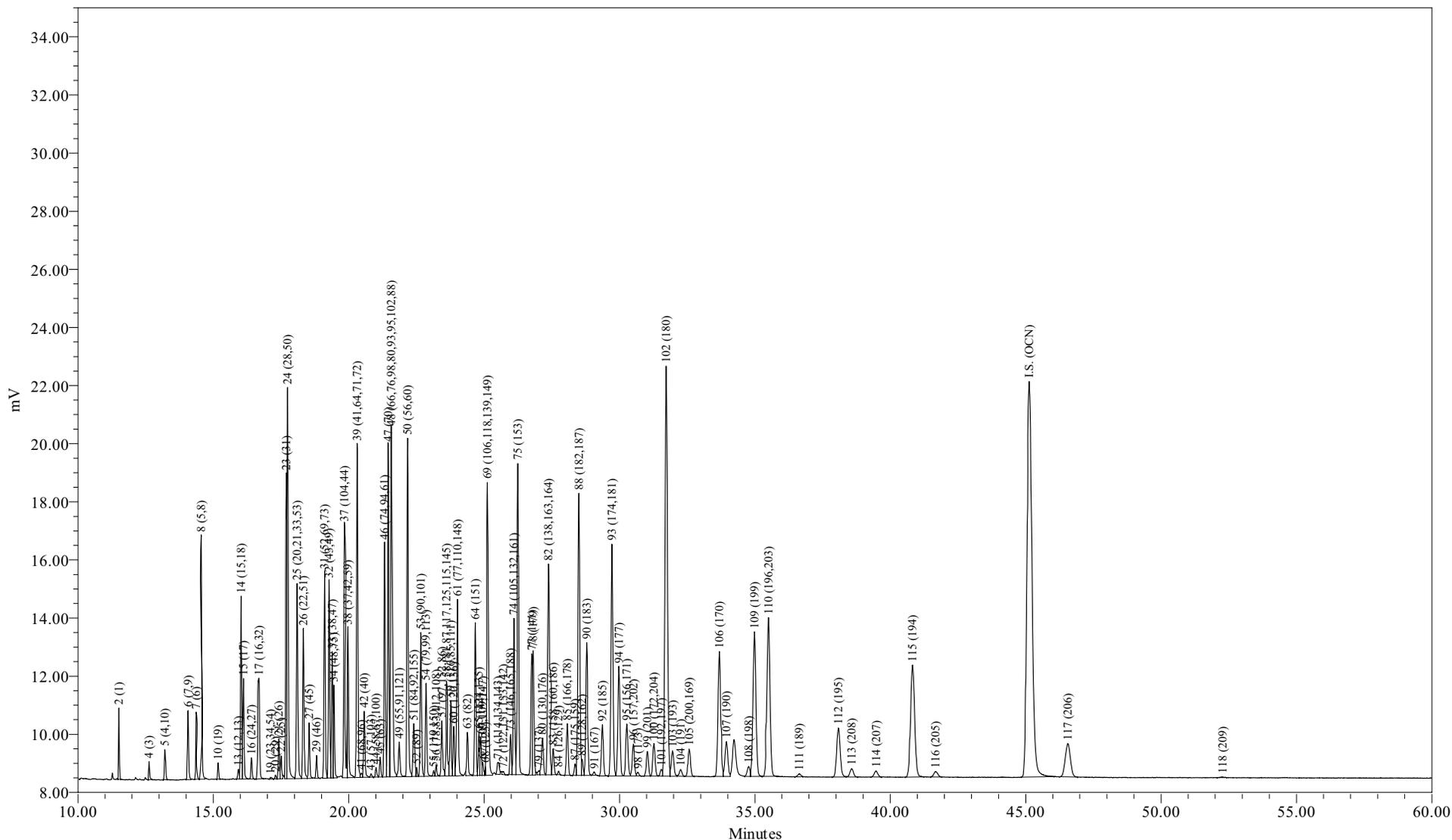
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.373	103	0.009	0.009	1.317078



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Sample Name: ICAL0905D  
Sample ID: ICAL 314 ng/mL  
Date Acquired: 9/5/2009 8:17:51 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-6



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name:	ICAL0905D	Sample Amount:	1
Sample ID:	ICAL 314 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 8:17:51 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/12/2009 3:19:28 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:31 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-6

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.513	4577	21.928	21.928	0.021570
2	3 (2)	12.517				
3	4 (3)	12.628	1412	12.792	12.792	0.011407
4	5 (4,10)	13.212	3194	6.213	6.213	0.053125
5	6 (7,9)	14.067	7547	2.193	2.193	0.355688
6	7 (6)	14.369	5695	3.472	3.472	0.169514
7	8 (5,8)	14.554	22593	25.583	25.583	0.091267
8	9 (14)	15.113				
9	10 (19)	15.178	1432	0.512	0.512	0.289225
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.925	1124	0.488	0.488	0.238235
13	14 (15,18)	16.025	17310	6.761	6.761	0.264584
14	15 (17)	16.111	11070	6.761	6.761	0.169207
15	16 (24,27)	16.409	2259	0.475	0.475	0.491513
16	17 (16,32)	16.685	16955	7.127	7.127	0.245864
17	19 (23,34,54)	17.114	267			
18	20 (29)	17.299	383	0.097	0.097	0.407619
19	21 (26)	17.421	4031	1.316	1.316	0.316625
20	22 (25)	17.507	2543	0.585	0.585	0.449445
21	23 (31)	17.696	26915	7.534	7.534	0.369187
22	24 (28,50)	17.743	42526	9.643	9.643	0.455761
23	25 (20,21,33,53)	18.094	23902	7.258	7.258	0.340319
24	26 (22,51)	18.325	16850	5.300	5.300	0.328576
25	27 (45)	18.541	5963	1.626	1.626	0.378985
26	28 (36)	18.694				
27	29 (46)	18.814	2355	0.731	0.731	0.332919
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.110	22396	8.716	8.716	0.265534
30	32 (43,49)	19.277	21539	4.203	4.203	0.529619
31	33 (38,47)	19.391	13108	1.828	1.828	0.741216
32	34 (48,75)	19.453	9972	1.828	1.828	0.563862
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.841	31219	7.858	7.858	0.410598
36	38 (37,42,59)	19.969	15852	4.751	4.751	0.344798
37	39 (41,64,71,72)	20.314	38632	7.492	7.492	0.532879
38	41 (68,96)	20.469	575			
39	42 (40)	20.574	7769	1.718	1.718	0.467420
40	43 (57,103)	20.822	426			
41	44 (58,67,100)	21.008	1187	0.201	0.201	0.610523
42	45 (63)	21.162	2240	0.384	0.384	0.603235
43	46 (74,94,61)	21.328	26230	3.472	3.472	0.780757
44	47 (70)	21.457	37425	6.213	6.213	0.622526
45	48 (66,76,98,80,93,95,102,88)	21.573	53534	13.157	13.157	0.420500
46	49 (55,91,121)	21.866	4813	0.932	0.932	0.533713
47	50 (56,60)	22.175	39630	6.396	6.396	0.640370
48	51 (84,92,155)	22.402	8083	3.289	3.289	0.253954
49	52 (89)	22.509	950	0.183	0.183	0.537245
50	53 (90,101)	22.666	17041	3.289	3.289	0.535419
51	54 (79,99,113)	22.859	10984	1.352	1.352	0.839469
52	55 (119,150)	23.138	651	0.051	0.051	1.312314
53	56 (78,83,112,108)	23.230	1351	0.274	0.274	0.509624
54	57 (97,152,86)	23.442	7097	1.023	1.023	0.716784
55	58 (81,87,117,125,115,145)	23.616	12022	2.120	2.120	0.586103
56	59 (116,85,111)	23.769	9417	1.279	1.279	0.760743
57	60 (120,136)	23.881	5720	1.370	1.370	0.431303
58	61 (77,110,148)	24.017	22580	3.892	3.892	0.599532
59	62 (154)	24.292				
60	63 (82)	24.385	5669	0.804	0.804	0.728780
61	64 (151)	24.677	17788	3.106	3.106	0.591776
62	65 (124,135)	24.810	5072	0.530	0.530	0.988978
63	66 (144)	24.875	4291	1.097	1.097	0.404397
64	67 (107,109,147)	24.951	1464	0.237	0.237	0.637067
65	68 (123)	25.048	438			
66	69 (106,118,139,149)	25.121	46285	7.309	7.309	0.654409
67	70 (140)	25.235				
68	71 (114,134,143)	25.511	2367	0.369	0.369	0.662912
69	72 (122,131,133,142)	25.707	546	0.053	0.053	1.060512
70	73 (146,165,188)	25.978	4946	0.713	0.713	0.717144

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.104	20726	2.476	2.476	0.865106
72	75 (153)	26.248	41397	5.382	5.382	0.794931
73	76 (127,168,184)	26.366				
74	77 (141)	26.759	14905	3.106	3.106	0.495873
75	78 (179)	26.813	15911	2.668	2.668	0.616298
76	79 (137)	27.019	745	0.137	0.137	0.562287
77	80 (130,176)	27.159	6093	0.475	0.475	1.325956
78	82 (138,163,164)	27.379	36157	4.964	4.964	0.752744
79	83 (158,160,186)	27.554	3879	0.457	0.457	0.877758
80	84 (126,129)	27.753	483	0.024	0.024	2.111957
81	85 (166,178)	28.072	7955	2.010	2.010	0.409011
82	87 (175,159)	28.359	1642	0.366	0.366	0.464309
83	88 (182,187)	28.502	46411	6.578	6.578	0.729096
84	89 (128,162)	28.623	2136	0.183	0.183	1.207982
85	90 (183)	28.792	21811	3.106	3.106	0.725598
86	91 (167)	29.068	620	0.090	0.090	0.715139
87	92 (185)	29.370	9014	0.859	0.859	1.084920
88	93 (174,181)	29.720	41067	5.847	5.847	0.725804
89	94 (177)	29.978	19827	3.106	3.106	0.659618
90	95 (156,171)	30.272	10128	1.444	1.444	0.724927
91	96 (157,202)	30.513	6171	0.121	0.121	5.284116
92	98 (173)	30.678	688	0.069	0.069	1.024078
93	99 (201)	31.030	4712	0.713	0.713	0.683179
94	100 (172,204)	31.273	6605	1.023	1.023	0.667116
95	101 (192,197)	31.544	1213	0.201	0.201	0.623781
96	102 (180)	31.725	90305	11.147	11.147	0.837233
97	103 (193)	31.961	5698	0.768	0.768	0.767223
98	104 (191)	32.259	1575	0.219	0.219	0.742400
99	105 (200,169)	32.576	6104	0.786	0.786	0.802791
100	106 (170)	33.691	30341	2.339	2.339	1.340599
101	107 (190)	33.952	8898	0.768	0.768	1.198131
102	108 (198)	34.773	2362	0.219	0.219	1.113500
103	109 (199)	34.986	38107	7.675	7.675	0.513124
104	110 (196,203)	35.503	43009	7.858	7.858	0.565648
105	111 (189)	36.640	824	0.073	0.073	1.167741
106	112 (195)	38.087	15576	1.010	1.010	1.593227
107	113 (208)	38.575	2671	0.451	0.451	0.611808
108	114 (207)	39.479	1905	0.170	0.170	1.158538
109	115 (194)	40.821	40496	3.289	3.289	1.272350
110	116 (205)	41.673	1927	0.201	0.201	0.990884
111	I.S. (OCN)	45.131	175915	18.180	18.180	9676.274533
112	117 (206)	46.554	15094	1.242	1.242	1.255595

### Peak Results

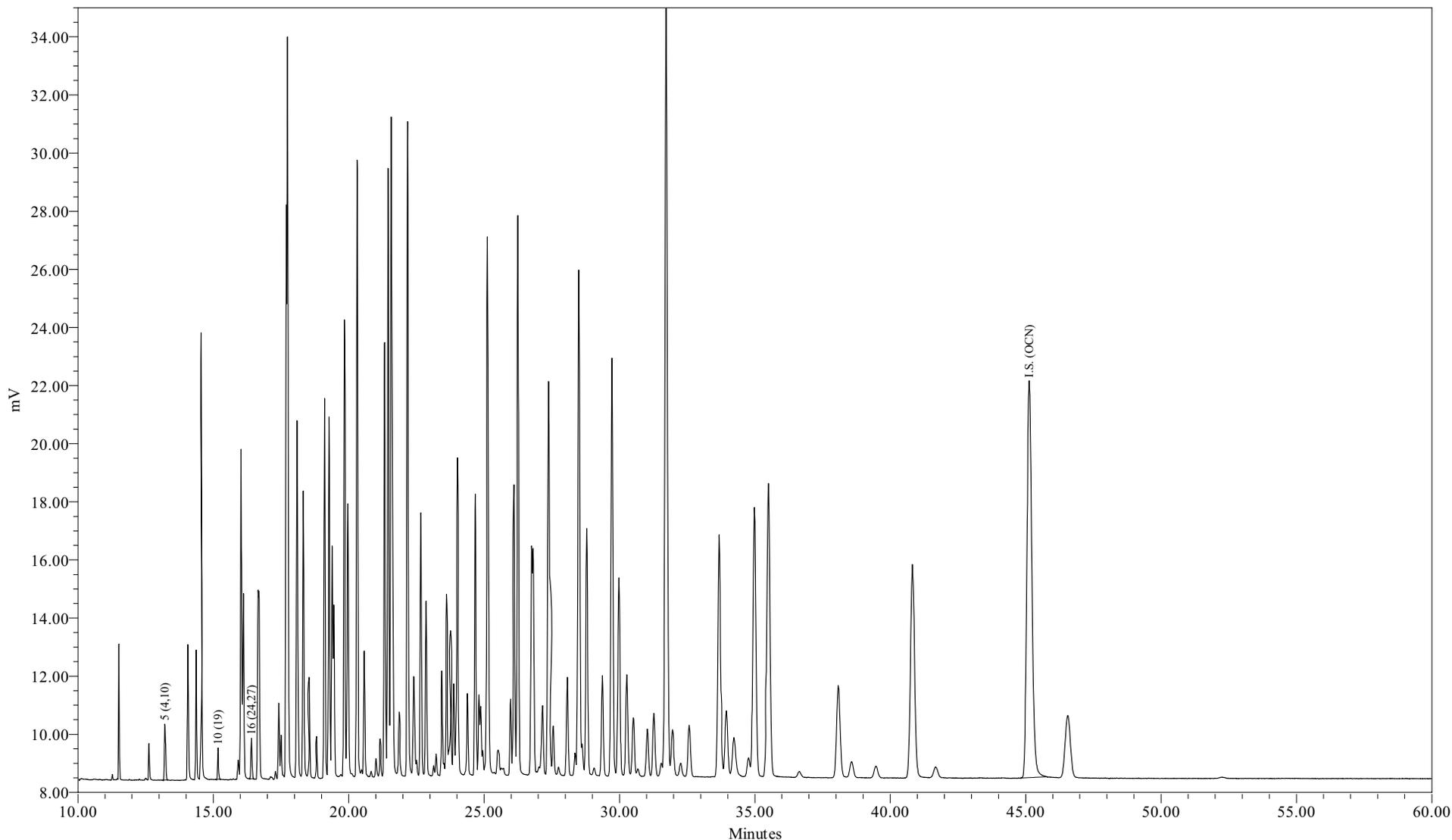
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.278	233	0.022	0.022	1.087888



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Sample Name: ICAL0905E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 9/5/2009 9:23:21 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-7



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Sample Name:	ICAL0905E	Sample Amount:	1
Sample ID:	ICAL 627 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 9:23:21 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/12/2009 3:19:30 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:37 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-7

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.514				
2	3 (2)	12.517				
3	4 (3)	12.634				
4	5 (4,10)	13.212	6100	12.426	12.426	0.051459
5	6 (7,9)	14.064				
6	7 (6)	14.369				
7	8 (5,8)	14.552				
8	9 (14)	15.113				
9	10 (19)	15.178	2668	1.024	1.024	0.273195
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.921				
13	14 (15,18)	16.024				
14	15 (17)	16.109				
15	16 (24,27)	16.410	4054	0.950	0.950	0.447443
16	17 (16,32)	16.663				
17	19 (23,34,54)	17.114				
18	20 (29)	17.294				
19	21 (26)	17.420				
20	22 (25)	17.503				
21	23 (31)	17.698				
22	24 (28,50)	17.749				
23	25 (20,21,33,53)	18.095				
24	26 (22,51)	18.324				
25	27 (45)	18.540				
26	28 (36)	18.694				
27	29 (46)	18.808				
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.109				
30	32 (43,49)	19.277				
31	33 (38,47)	19.392				
32	34 (48,75)	19.457				
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.840				
36	38 (37,42,59)	19.968				
37	39 (41,64,71,72)	20.315				
38	41 (68,96)	20.471				
39	42 (40)	20.577				
40	43 (57,103)	20.825				
41	44 (58,67,100)	21.006				
42	45 (63)	21.163				
43	46 (74,94,61)	21.327				
44	47 (70)	21.456				
45	48 (66,76,98,80,93,95,102,88)	21.572				
46	49 (55,91,121)	21.865				
47	50 (56,60)	22.174				
48	51 (84,92,155)	22.402				
49	52 (89)	22.507				
50	53 (90,101)	22.664				
51	54 (79,99,113)	22.856				
52	55 (119,150)	23.134				
53	56 (78,83,112,108)	23.229				
54	57 (97,152,86)	23.442				
55	58 (81,87,117,125,115,145)	23.615				
56	59 (116,85,111)	23.767				
57	60 (120,136)	23.879				
58	61 (77,110,148)	24.016				
59	62 (154)	24.292				
60	63 (82)	24.383				
61	64 (151)	24.678				
62	65 (124,135)	24.807				
63	66 (144)	24.877				
64	67 (107,109,147)	24.951				
65	68 (123)	25.036				
66	69 (106,118,139,149)	25.121				
67	70 (140)	25.235				
68	71 (114,134,143)	25.515				
69	72 (122,131,133,142)	25.713				
70	73 (146,165,188)	25.982				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.097				
72	75 (153)	26.250				
73	76 (127,168,184)	26.366				
74	77 (141)	26.758				
75	78 (179)	26.813				
76	79 (137)	27.020				
77	80 (130,176)	27.161				
78	82 (138,163,164)	27.380				
79	83 (158,160,186)	27.553				
80	84 (126,129)	27.736				
81	85 (166,178)	28.072				
82	87 (175,159)	28.360				
83	88 (182,187)	28.496				
84	89 (128,162)	28.621				
85	90 (183)	28.792				
86	91 (167)	29.046				
87	92 (185)	29.366				
88	93 (174,181)	29.724				
89	94 (177)	29.979				
90	95 (156,171)	30.264				
91	96 (157,202)	30.513				
92	98 (173)	30.680				
93	99 (201)	31.039				
94	100 (172,204)	31.268				
95	101 (192,197)	31.542				
96	102 (180)	31.719				
97	103 (193)	31.958				
98	104 (191)	32.250				
99	105 (200,169)	32.576				
100	106 (170)	33.681				
101	107 (190)	33.946				
102	108 (198)	34.755				
103	109 (199)	34.980				
104	110 (196,203)	35.502				
105	111 (189)	36.642				
106	112 (195)	38.096				
107	113 (208)	38.594				
108	114 (207)	39.486				
109	115 (194)	40.838				
110	116 (205)	41.669				
111	I.S. (OCN)	45.129	173433	18.180	18.180	9539.748802
112	117 (206)	46.568				

**Peak Results**

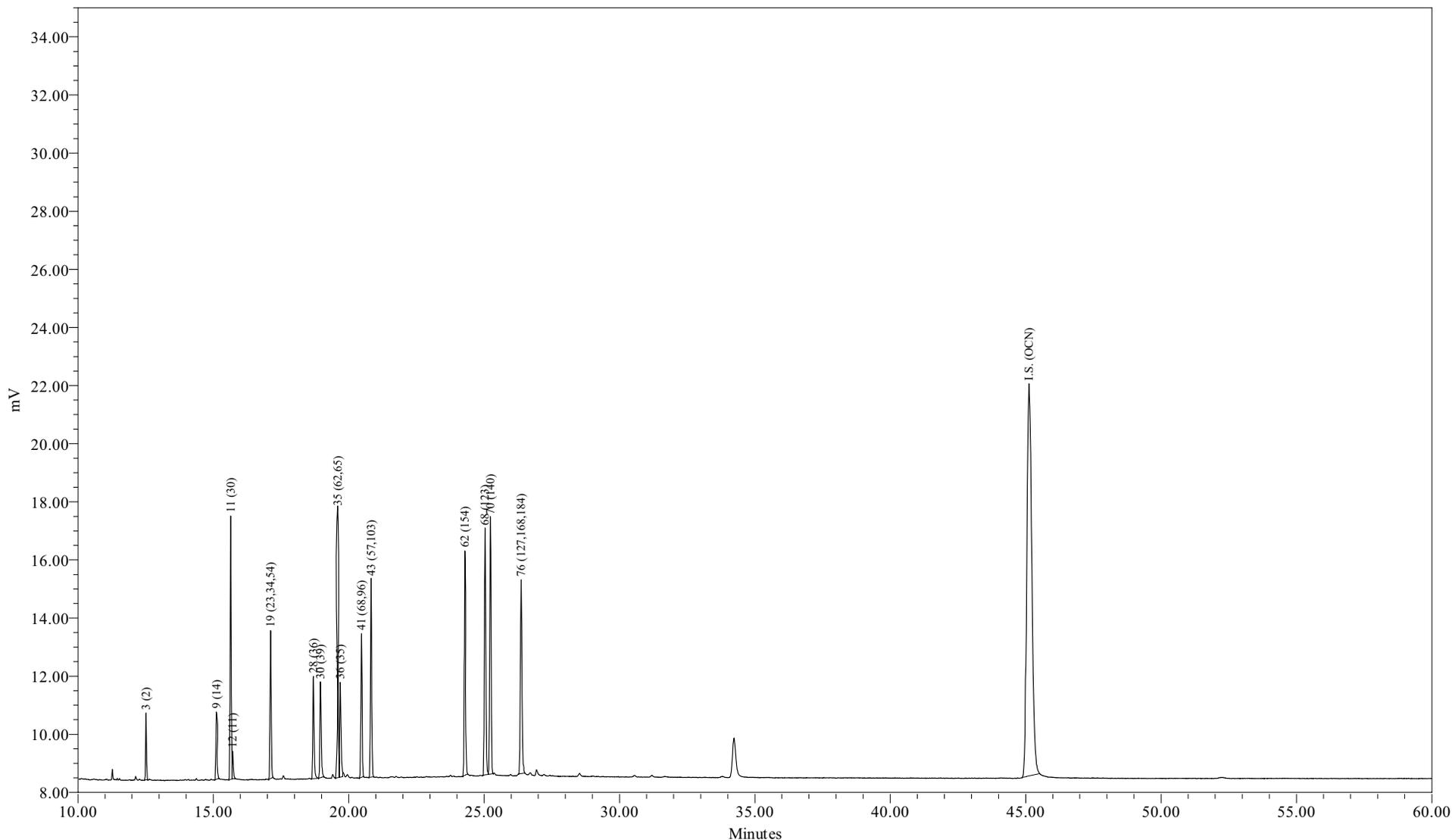
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.297				



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Sample Name: SC0905A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 9/5/2009 11:34:20 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-9



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name	SC0905A	Sample Amount:	1
Sample ID	SUP CONG STD 200.5 ng/mL	Dilution	1
Date Acquired	9/5/2009 11:34:20 AM EDT	Extract Volume	1
Project Name	GC24_Mar_2009	Date Processed	9/12/2009 3:19:32 PM EDT
Sample Set Name	GC24_CC_090509	User Name	Amy Jo Arndt (AmyJoA)
Processing Method	CSGB_LL1X_090509	Current Date	9/18/2009
Run Time	60.0 Minutes	Current Time	9:53:44 AM US/Eastern
Report Name	CSGB_CaStd_rpt	LIMS File ID	GC24-163-9

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.514				
2	3 (2)	12.517	4607	200.000	200.000	0.002451
3	4 (3)	12.634				
4	5 (4,10)	13.215				
5	6 (7,9)	14.064				
6	7 (6)	14.369				
7	8 (5,8)	14.552				
8	9 (14)	15.112	6274	5.000	5.000	0.133518
9	10 (19)	15.177				
10	11 (30)	15.641	23564	5.000	5.000	0.501489
11	12 (11)	15.716	2680	5.000	5.000	0.057030
12	13 (12,13)	15.921				
13	14 (15,18)	16.024				
14	15 (17)	16.109				
15	16 (24,27)	16.410				
16	17 (16,32)	16.663				
17	19 (23,34,54)	17.115	14298	5.000	5.000	0.304293
18	20 (29)	17.294				
19	21 (26)	17.420				
20	22 (25)	17.503				
21	23 (31)	17.698				
22	24 (28,50)	17.749				
23	25 (20,21,33,53)	18.095				
24	26 (22,51)	18.324				
25	27 (45)	18.540				
26	28 (36)	18.695	11375	5.000	5.000	0.242069
27	29 (46)	18.808				
28	30 (39)	18.957	10859	5.000	5.000	0.231103

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area ( $\mu V \cdot sec$ )	Solution Conc. (ng/mL)	Sample Amount (ppb)	Relative Response Factor
29	31 (52,69,73)	19.109				
30	32 (43,49)	19.277				
31	33 (38,47)	19.392				
32	34 (48,75)	19.457				
33	35 (62,65)	19.591	28612	5.000	5.000	0.608916
34	36 (35)	19.690	10923	5.000	5.000	0.232451
35	37 (104,44)	19.840				
36	38 (37,42,59)	19.968				
37	39 (41,64,71,72)	20.315				
38	41 (68,96)	20.471	15502	5.000	5.000	0.329906
39	42 (40)	20.577				
40	43 (57,103)	20.828	21768	5.000	5.000	0.463251
41	44 (58,67,100)	21.006				
42	45 (63)	21.163				
43	46 (74,94,61)	21.327				
44	47 (70)	21.456				
45	48 (66,76,98,80,93,95,102,88)	21.572				
46	49 (55,91,121)	21.865				
47	50 (56,60)	22.174				
48	51 (84,92,155)	22.402				
49	52 (89)	22.507				
50	53 (90,101)	22.664				
51	54 (79,99,113)	22.856				
52	55 (119,150)	23.134				
53	56 (78,83,112,108)	23.229				
54	57 (97,152,86)	23.442				
55	58 (81,87,117,125,115,145)	23.615				
56	59 (116,85,111)	23.767				
57	60 (120,136)	23.879				
58	61 (77,110,148)	24.016				
59	62 (154)	24.293	25746	5.000	5.000	0.547924
60	63 (82)	24.383				
61	64 (151)	24.678				
62	65 (124,135)	24.807				
63	66 (144)	24.877				
64	67 (107,109,147)	24.951				
65	68 (123)	25.035	29765	5.000	5.000	0.633456
66	69 (106,118,139,149)	25.121				
67	70 (140)	25.234	30316	5.000	5.000	0.645169
68	71 (114,134,143)	25.515				
69	72 (122,131,133,142)	25.713				
70	73 (146,165,188)	25.982				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.097				
72	75 (153)	26.250				
73	76 (127,168,184)	26.367	26043	5.000	5.000	0.554248
74	77 (141)	26.758				
75	78 (179)	26.813				
76	79 (137)	27.020				
77	80 (130,176)	27.161				
78	82 (138,163,164)	27.380				
79	83 (158,160,186)	27.553				
80	84 (126,129)	27.736				
81	85 (166,178)	28.072				
82	87 (175,159)	28.360				
83	88 (182,187)	28.496				
84	89 (128,162)	28.621				
85	90 (183)	28.792				
86	91 (167)	29.046				
87	92 (185)	29.366				
88	93 (174,181)	29.724				
89	94 (177)	29.979				
90	95 (156,171)	30.264				
91	96 (157,202)	30.513				
92	98 (173)	30.680				
93	99 (201)	31.039				
94	100 (172,204)	31.268				
95	101 (192,197)	31.542				
96	102 (180)	31.719				
97	103 (193)	31.958				
98	104 (191)	32.250				
99	105 (200,169)	32.576				
100	106 (170)	33.681				
101	107 (190)	33.946				
102	108 (198)	34.755				
103	109 (199)	34.980				
104	110 (196,203)	35.502				
105	111 (189)	36.642				
106	112 (195)	38.096				
107	113 (208)	38.594				
108	114 (207)	39.486				
109	115 (194)	40.838				
110	116 (205)	41.669				
111	I.S. (OCN)	45.122	170851	18.180	18.180	9397.750888
112	117 (206)	46.568				

### Peak Results

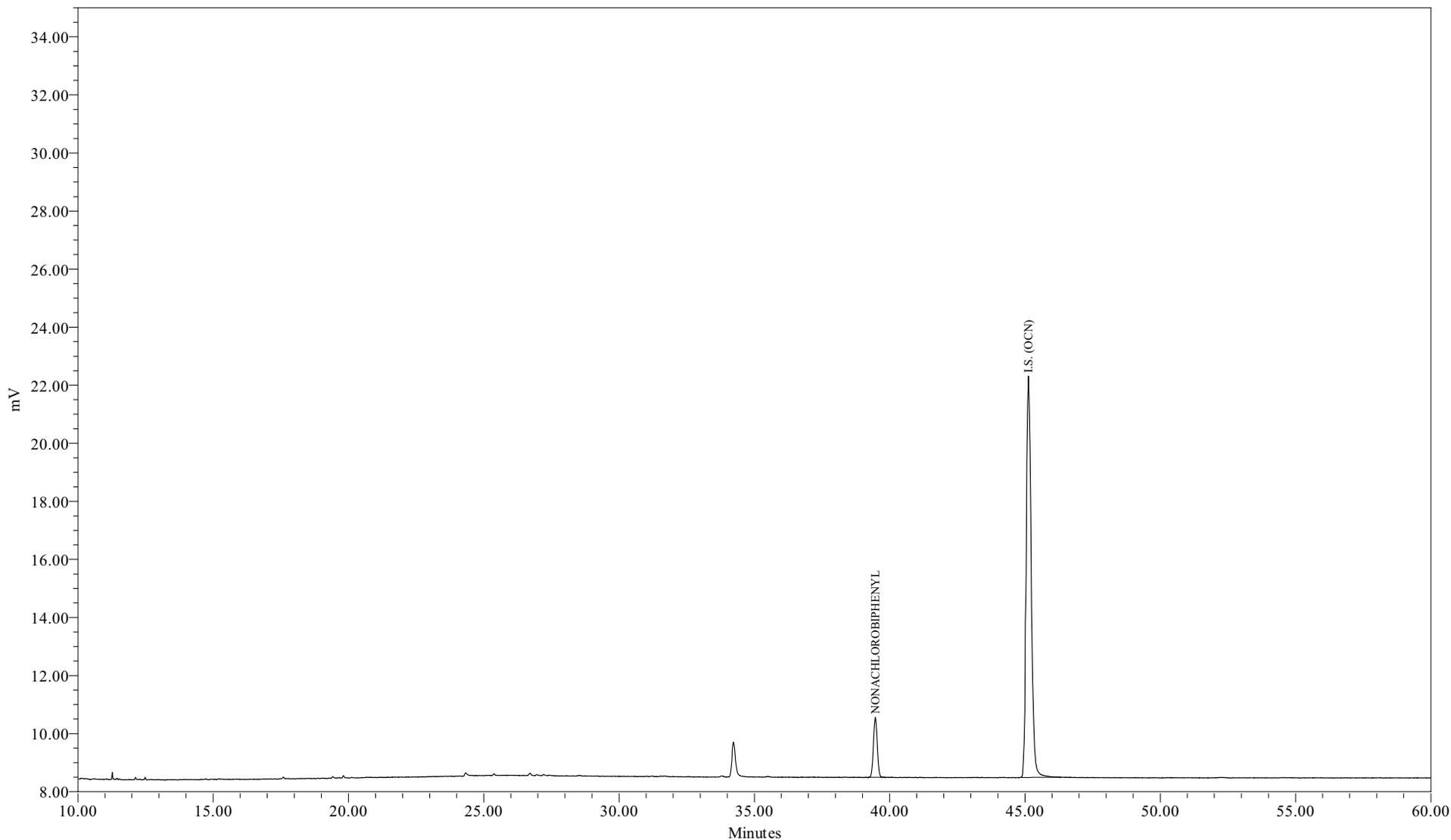
	DB-1 Peak Number (PCB IUPAC #)	Retention (min)	Area ( $\mu V \cdot sec$ )	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.297				



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Sample Name: SS0905A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 9/5/2009 12:40:05 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB S 2 090509  
LIMS File ID: GC24-163-10



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Sample Name:	SS0905A	Sample Amount:	1
Sample ID:	Surr Std (207) 2.0 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 12:40:05 PM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/7/2009 2:25:40 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_S_2_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:51 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-10

**Peak Results**

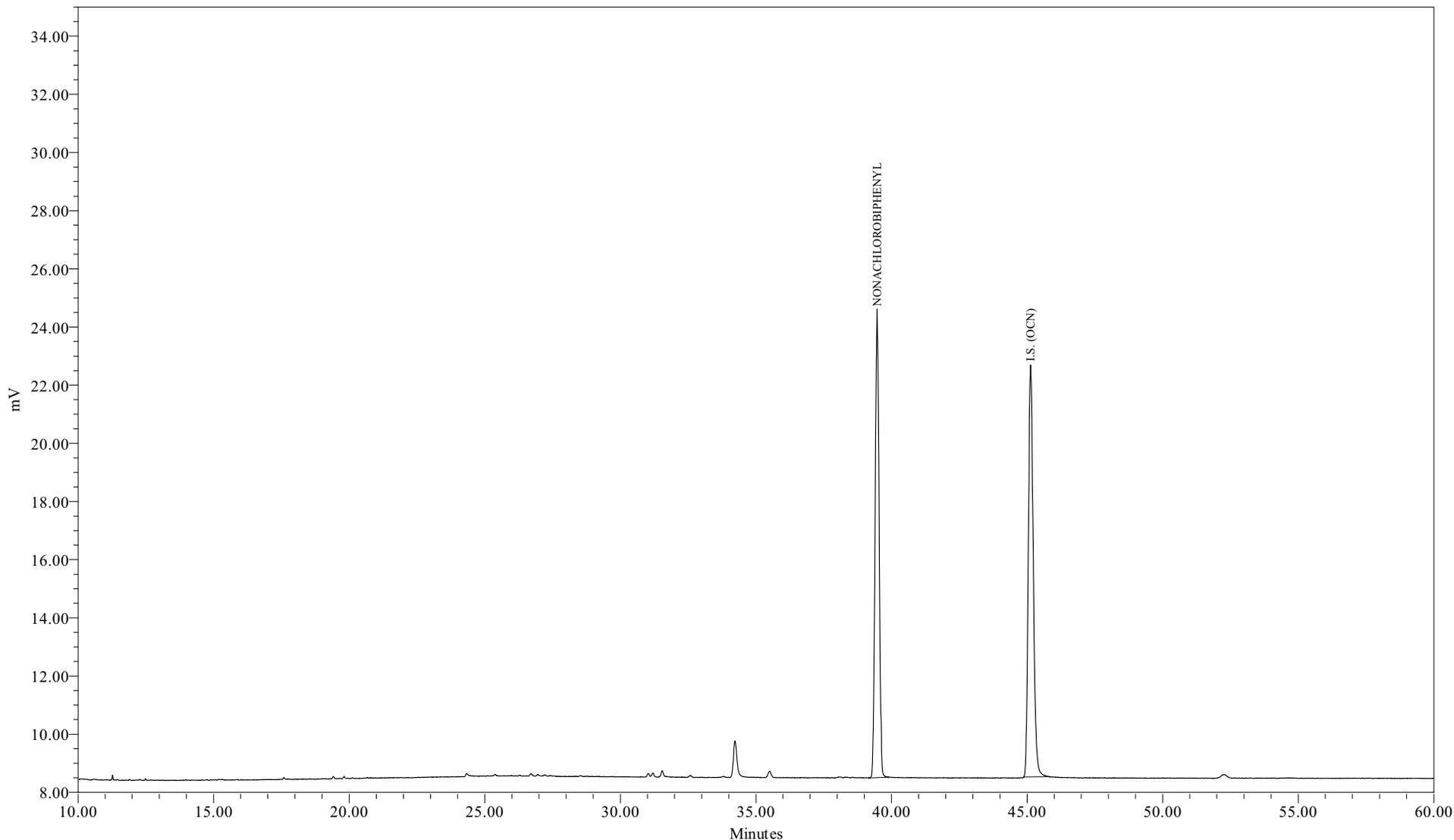
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	39.468	20397	2.000	2.000	1.042708
2	I.S. (OCN)	45.132	177818	18.180	18.180	9780.990090



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Sample Name: SS0905B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 9/5/2009 1:45:34 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB S 20 090509  
LIMS File ID: GC24-163-11



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Sample Name:	SS0905B	Sample Amount:	1
Sample ID:	Surr Std (207) 20.0 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 1:45:34 PM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/7/2009 2:26:32 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_S_20_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:57 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-11

**Peak Results**

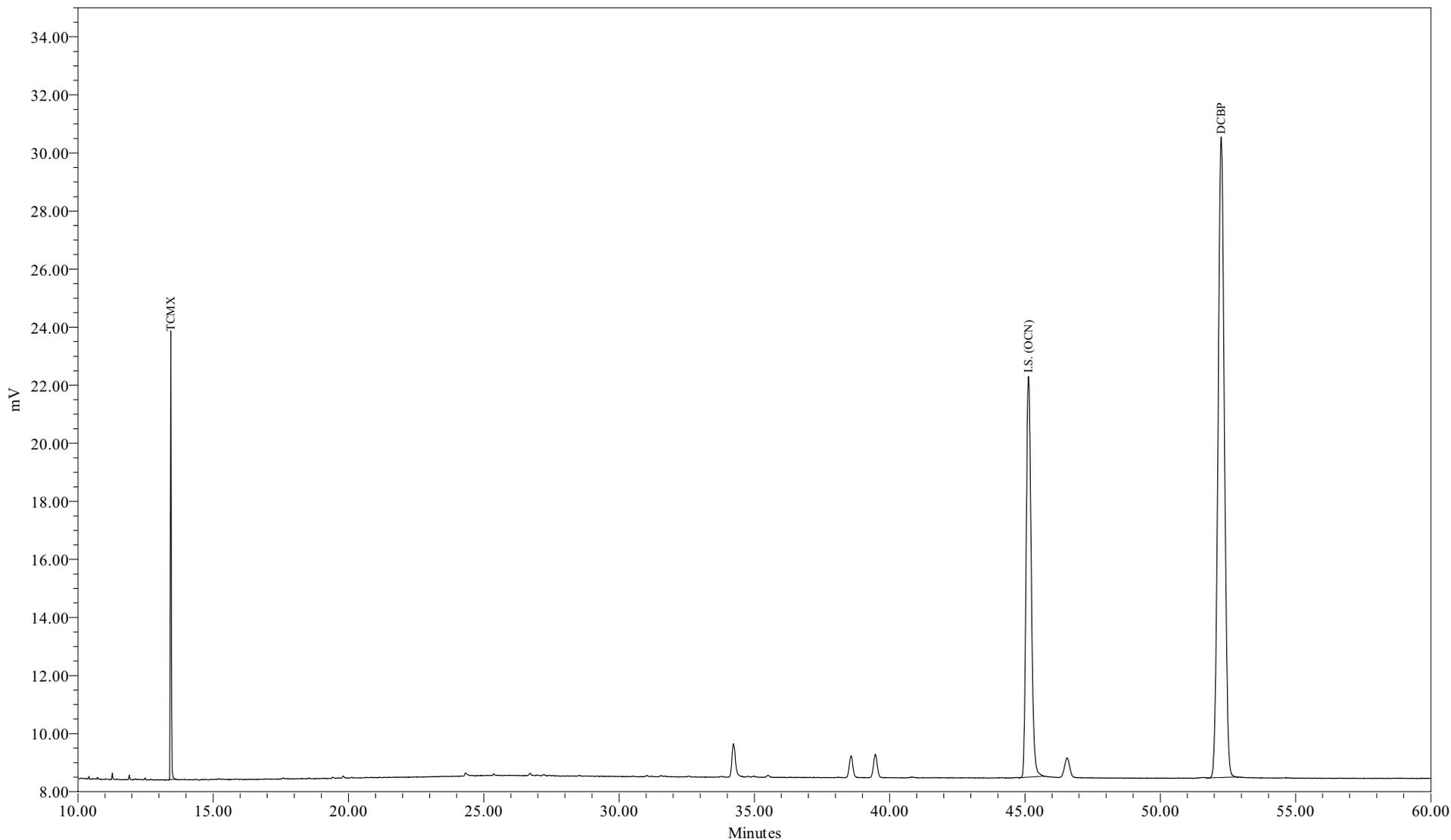
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	39.468	163748	20.000	20.000	0.833772
2	I.S. (OCN)	45.129	178522	18.180	18.180	9819.708978



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Sample Name: TD0905A  
Sample ID: Surr TCMX/DCBP 5/50 ppb  
Date Acquired: 9/5/2009 2:51:02 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB TD\_S\_090509  
LIMS File ID: GC24-163-12



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Sample Name:	TD0905A	Sample Amount:	1
Sample ID:	Surr TCMX/DCBP 5/50 ppb	Dilution:	1
Date Acquired:	9/5/2009 2:51:02 PM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/7/2009 2:29:09 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_TD_S_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:54:00 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-12

**Peak Results**

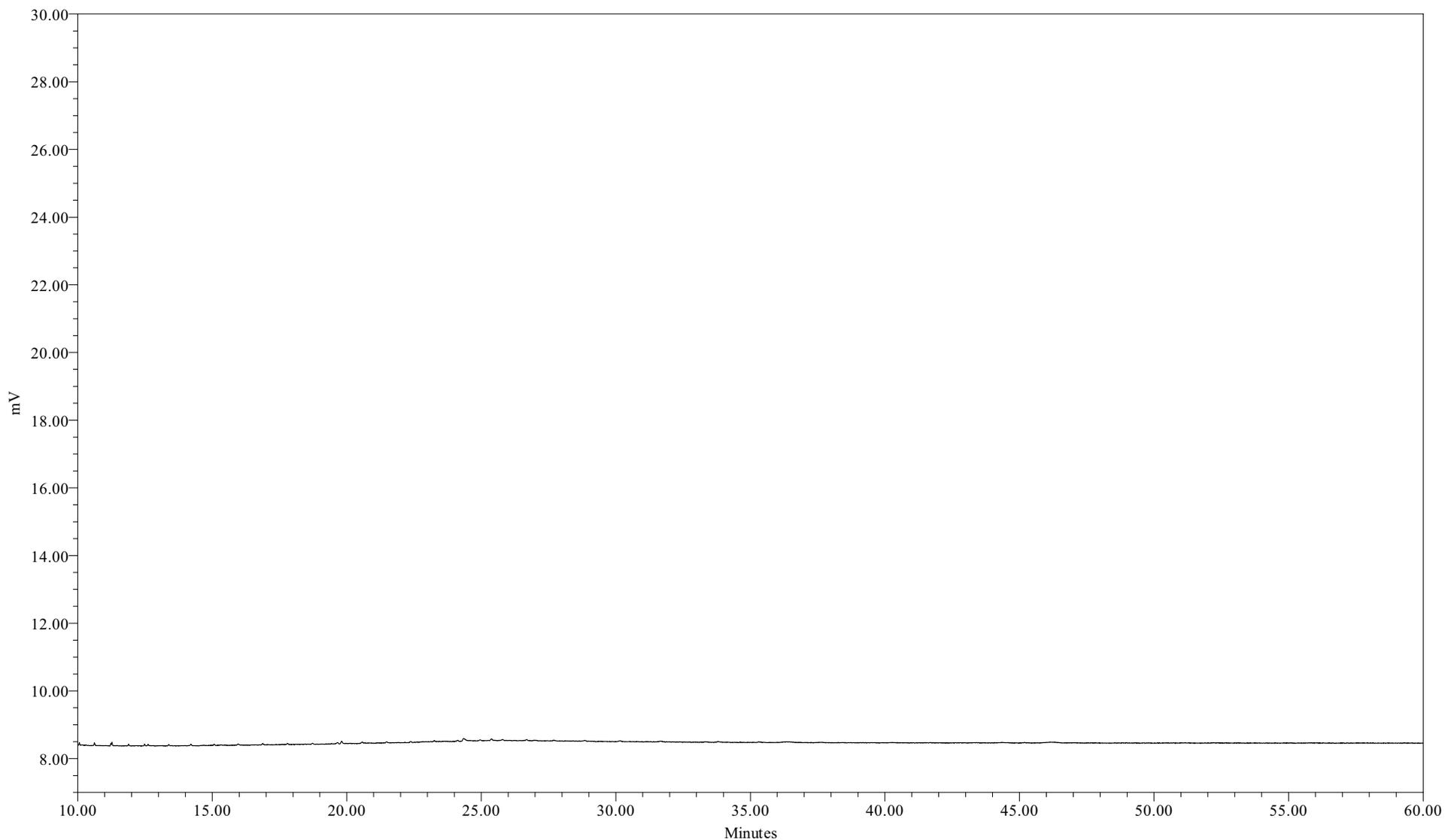
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	TCMX	13.436	35145	5.000	5.000	0.714607
2	I.S. (OCN)	45.132	178822	18.180	18.180	9836.191773
3	DCBP	52.254	362323	50.000	50.000	0.736714



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Sample Name: 090905B04  
Sample ID: HEXANE BLANK  
Date Acquired: 9/5/2009 3:56:30 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-163-13



# Northeast Analytical, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS0923A File ID: GC24-176-7		Continuing Calibration CCCS0923B File ID: GC24-176-16		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.21	-10.3	1.18	-12.3		
37 (104,44)	3.06	+/-15	2.98	-2.70	3.01	-1.70		
47 (70)	2.42	+/-15	2.25	-6.92	2.27	-6.40		
93 (174,181)	2.28	+/-15	2.20	-3.62	2.24	-1.61		
102 (180)	4.35	+/-15	4.10	-5.70	4.18	-3.86		
116 (205)	0.0788	+/-30	0.0805	2.13	0.0752	-4.51		
Total CCCS Conc.	122	+/-15	116	-4.93	117	-3.96		

### Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS0923A	1524 uV	762 uV	546 uV
CCCS0923B	1551 uV	775.5 uV	390 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS0923A	2018 uV	672.7 uV	134 uV
CCCS0923B	1845 uV	615 uV	270 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0923A	CCCS0923A File ID: GC24-176-7		CCCS0923B File ID: GC24-176-16		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.51		11.51			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.62		12.64			
4	5 (4,10)	+/-0.07	13.21		13.21			
5	6 (7,9)	+/-0.07	14.06		14.07			
6	7 (6)	+/-0.07	14.36		14.37			
7	8 (5,8)	+/-0.07	14.55		14.56			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.17		15.17			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	15.92		15.95			
13	14 (15,18)	+/-0.07	16.02		16.02			
14	15 (17)	+/-0.07	16.10		16.11			
15	16 (24,27)	+/-0.07	16.40		16.41			
16	17 (16,32)	+/-0.07	16.65		16.66			
17	19 (23,34,54)	+/-0.07	17.11		17.13			
18	20 (29)	+/-0.07	17.29		17.31			
19	21 (26)	+/-0.07	17.41		17.43			
20	22 (25)	+/-0.07	17.50		17.51			
21	23 (31)	+/-0.07	17.69		17.70			
22	24 (28,50)	+/-0.07	17.74		17.75			
23	25 (20,21,33,53)	+/-0.07	18.09		18.10			
24	26 (22,51)	+/-0.07	18.32		18.33			
25	27 (45)	+/-0.07	18.53		18.54			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	18.81		18.81			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.10		19.11			
30	32 (43,49)	+/-0.07	19.27		19.28			
31	33 (38,47)	+/-0.07	19.38		19.39			
32	34 (48,75)	+/-0.07	19.44		19.45			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	19.70		19.65			
35	37 (104,44)	+/-0.07	19.83		19.84			
36	38 (37,42,59)	+/-0.07	19.96		19.97			
37	39 (41,64,71,72)	+/-0.07	20.30		20.31			
38	41 (68,96)	+/-0.07	20.46		20.46			
39	42 (40)	+/-0.07	20.56		20.57			
40	43 (57,103)	+/-0.07	20.82		20.83			
41	44 (58,67,100)	+/-0.07	20.99		21.01			
42	45 (63)	+/-0.07	21.15		21.17			
43	46 (74,94,61)	+/-0.07	21.32		21.33			
44	47 (70)	+/-0.07	21.45		21.46			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.57		21.58			
46	49 (55,91,121)	+/-0.07	21.85		21.86			
47	50 (56,60)	+/-0.07	22.17		22.18			
48	51 (84,92,155)	+/-0.07	22.39		22.40			
49	52 (89)	+/-0.07	22.50		22.50			
50	53 (90,101)	+/-0.07	22.66		22.66			
51	54 (79,99,113)	+/-0.07	22.85		22.86			
52	55 (119,150)	+/-0.07	23.13		23.14			
53	56 (78,83,112,108)	+/-0.07	23.22		23.23			
54	57 (97,152,86)	+/-0.07	23.43		23.44			
55	58 (81,87,117,125,115,145)	+/-0.07	23.60		23.61			
56	59 (116,85,111)	+/-0.07	23.76		23.77			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS0923A	CCCS0923A File ID: GC24-176-7		CCCS0923B File ID: GC24-176-16		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	23.87		23.87			
58	61 (77,110,148)	+/-0.07	24.01		24.02			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.37		24.39			
61	64 (151)	+/-0.07	24.67		24.67			
62	65 (124,135)	+/-0.07	24.80		24.81			
63	66 (144)	+/-0.07	24.86		24.87			
64	67 (107,109,147)	+/-0.07	24.94		24.95			
65	68 (123)	+/-0.07	25.03		25.04			
66	69 (106,118,139,149)	+/-0.07	25.11		25.11			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.50		25.49			
69	72 (122,131,133,142)	+/-0.07	25.70		25.67			
70	73 (146,165,188)	+/-0.07	25.97		25.98			
71	74 (105,132,161)	+/-0.07	26.09		26.11			
72	75 (153)	+/-0.07	26.24		26.24			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	26.74		26.76			
75	78 (179)	+/-0.07	26.80		26.80			
76	79 (137)	+/-0.07	27.01		27.03			
77	80 (130,176)	+/-0.07	27.14		27.15			
78	82 (138,163,164)	+/-0.07	27.37		27.38			
79	83 (158,160,186)	+/-0.07	27.54		27.55			
80	84 (126,129)	+/-0.07	27.73		27.73			
81	85 (166,178)	+/-0.07	28.06		28.06			
82	87 (175,159)	+/-0.07	28.35		28.35			
83	88 (182,187)	+/-0.07	28.48		28.49			
84	89 (128,162)	+/-0.07	28.60		28.61			
85	90 (183)	+/-0.07	28.78		28.78			
86	91 (167)	+/-0.07	29.03		29.07			
87	92 (185)	+/-0.07	29.35		29.36			
88	93 (174,181)	+/-0.07	29.71		29.71			
89	94 (177)	+/-0.07	29.96		29.97			
90	95 (156,171)	+/-0.07	30.25		30.27			
91	96 (157,202)	+/-0.07	30.49		30.50			
92	98 (173)	+/-0.07	30.66		30.68			
93	99 (201)	+/-0.07	31.01		31.02			
94	100 (172,204)	+/-0.07	31.25		31.26			
95	101 (192,197)	+/-0.07	31.52		31.53			
96	102 (180)	+/-0.07	31.71		31.72			
97	103 (193)	+/-0.07	31.94		31.95			
98	104 (191)	+/-0.07	32.23		32.24			
99	105 (200,169)	+/-0.07	32.55		32.56			
100	106 (170)	+/-0.07	33.66		33.68			
101	107 (190)	+/-0.07	33.92		33.95			
102	108 (198)	+/-0.07	34.74		34.74			
103	109 (199)	+/-0.07	34.96		34.97			
104	110 (196,203)	+/-0.07	35.48		35.49			
105	111 (189)	+/-0.07	36.60		36.67			
106	112 (195)	+/-0.07	38.06		38.07			
107	113 (208)	+/-0.07	38.54		38.56			
108	114 (207)	+/-0.07	39.42		39.45			
109	115 (194)	+/-0.07	40.79		40.81			
110	116 (205)	+/-0.07	41.64		41.68			
111	117 (206)	+/-0.07	46.52		46.54			
112	118 (209)	+/-0.07	52.29		52.20	*		

Calibration Component Summary Table  
Component Summary for RF  
(GC-16)



Project Name:	GC16_May_2009	Current Time:	16:23:21
Sample Set Name:	GC16_082309a	Current Date:	10/16/2009
Processing Method:	CSGB_LL1X_082309	Calibration ID:	13506,13656
Run Time:	60 Minutes	Calibration Date(s):	08/23/2009

**Correlation Summary**

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999666	Y = 2.83e-002 X + 1.80e-003	0.00180161883174779	0.0283332302329311
2	3 (2)	1.000000	Y = 2.90e-003 X	0	0.0028988143297413
3	4 (3)	0.998520	Y = 1.49e-002 X + 6.51e-004	0.000650508514068254	0.0148657067002506
4	5 (4,10)	0.998527	Y = 6.09e-002 X + 5.91e-005	5.90957812784954E-5	0.0608536348664009
5	6 (7,9)	0.999540	Y = 4.64e-001 X - 4.26e-003	-0.00426333353122299	0.463978147055201
6	7 (6)	0.999269	Y = 2.19e-001 X + 5.57e-003	0.00556691804847825	0.219075513631429
7	8 (5,8)	0.999143	Y = 1.17e-001 X + 8.07e-004	0.000807218077034433	0.117159733370829
8	9 (14)	1.000000	Y = 1.77e-001 X	0	0.176868975557739
9	10 (19)	0.997922	Y = 3.57e-001 X + 1.34e-003	0.00134230736134591	0.357004065514705
10	11 (30)	1.000000	Y = 6.65e-001 X	0	0.665040391278157
11	12 (11)	1.000000	Y = 6.49e-002 X	0	0.0648965680053031
12	13 (12,13)	0.999917	Y = 2.88e-001 X - 8.92e-004	-0.00089227717929410	0.287635106852082
13	14 (15,18)	0.999678	Y = 3.80e-001 X + 1.29e-003	0.00128875081394431	0.380444233011606
14	15 (17)	0.999352	Y = 1.85e-001 X - 1.85e-003	-0.00185317508611305	0.185438252271081
15	16 (24,27)	0.999820	Y = 5.58e-001 X - 1.12e-004	-0.00011150182609198	0.557991974444177
16	17 (16,32)	0.999547	Y = 3.20e-001 X + 5.14e-003	0.00513819429649165	0.319912593206853
17	19 (23,34,54)	1.000000	Y = 3.97e-001 X	0	0.396913487979062
18	20 (29)	0.999383	Y = 6.83e-001 X - 1.62e-004	-0.00016213940130775	0.682979138521941
19	21 (26)	0.999439	Y = 4.35e-001 X - 1.81e-003	-0.0018140507800633	0.434755628640035
20	22 (25)	0.996938	Y = 6.49e-001 X + 8.04e-004	0.00080395640181119	0.648567729352283
21	23 (31)	0.999851	Y = 5.15e-001 X + 1.46e-002	0.0145673812109512	0.515009697279804
22	24 (28,50)	0.999549	Y = 5.69e-001 X + 9.62e-003	0.00962487780023169	0.56929839644903
23	25 (20,21,33,53)	0.999884	Y = 4.44e-001 X + 1.09e-002	0.0109144575869213	0.443884687508628
24	26 (22,51)	0.999294	Y = 4.09e-001 X + 3.00e-003	0.00300141703110302	0.40913721561058
25	27 (45)	0.999987	Y = 5.06e-001 X - 6.15e-004	-0.00061486210722278	0.50628684614489
26	28 (36)	1.000000	Y = 3.02e-001 X	0	0.301527806357938
27	29 (46)	0.999254	Y = 4.63e-001 X + 1.04e-003	0.00104278670570448	0.462685055002637
28	30 (39)	1.000000	Y = 2.98e-001 X	0	0.298422313485573
29	31 (52,69,73)	0.999437	Y = 3.62e-001 X + 7.37e-004	0.000737007710196247	0.361920898412064
30	32 (43,49)	0.999386	Y = 7.07e-001 X - 3.03e-004	-0.00030311389247850	0.706687936415838
31	33 (38,47)	0.999624	Y = 9.57e-001 X + 1.68e-002	0.0167860356382913	0.957134995666923
32	34 (48,75)	0.998774	Y = 7.22e-001 X + 5.39e-003	0.00538866165255014	0.721989822847315
33	35 (62,65)	1.000000	Y = 7.87e-001 X	0	0.787266064787361
34	36 (35)	1.000000	Y = 2.81e-001 X	0	0.281285947945671
35	37 (104,44)	0.999213	Y = 5.48e-001 X + 9.22e-003	0.00921654953183637	0.547945433910457
36	38 (37,42,59)	0.999855	Y = 4.55e-001 X + 1.16e-003	0.00115621085286932	0.454926413995967
37	39 (41,64,71,72)	0.999616	Y = 7.02e-001 X + 1.09e-002	0.0108711637736025	0.701958584437876
38	41 (68,96)	1.000000	Y = 4.43e-001 X	0	0.443464115224603



Project Name:	GC16_May_2009	Current Time:	16:23:21
Sample Set Name:	GC16_082309a	Current Date:	10/16/2009
Processing Method:	CSGB_LL1X_082309	Calibration ID:	13506,13656
Run Time:	60 Minutes	Calibration Date(s):	08/23/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999897	Y = 6.04e-001 X - 4.21e-003	-0.00421326745900219	0.603622181652096
40	43 (57,103)	1.000000	Y = 6.06e-001 X	0	0.605790412639807
41	44 (58,67,100)	0.998948	Y = 7.79e-001 X - 8.32e-004	-0.00083217092138897	0.778991177606039
42	45 (63)	0.999241	Y = 8.27e-001 X + 5.39e-004	0.000539251350897996	0.827384791065449
43	46 (74,94,61)	0.999794	Y = 1.00e+000 X - 2.14e-003	-0.00213903143942917	1.00191846359632
44	47 (70)	0.999589	Y = 8.12e-001 X + 8.19e-003	0.00818564150034051	0.811694241011513
45	48 (66,76,98,80,93,95,102,88)	0.999559	Y = 5.42e-001 X + 1.85e-002	0.0184564418723854	0.542008063762718
46	49 (55,91,121)	0.999658	Y = 6.82e-001 X - 2.00e-003	-0.00200491296506167	0.682013523297033
47	50 (56,60)	0.999799	Y = 8.07e-001 X + 1.13e-002	0.0112868086738103	0.807084714896827
48	51 (84,92,155)	0.999444	Y = 3.26e-001 X - 1.42e-003	-0.00141685713963935	0.326128445303552
49	52 (89)	0.998646	Y = 7.39e-001 X - 2.29e-004	-0.00022927629604231	0.738863554876024
50	53 (90,101)	0.999157	Y = 6.99e-001 X - 5.01e-003	-0.00501475782233363	0.699255044336957
51	54 (79,99,113)	0.999498	Y = 1.10e+000 X - 2.63e-003	-0.00262837346552192	1.10071333097558
52	55 (119,150)	0.996725	Y = 1.91e+000 X + 1.01e-004	0.000100839781498337	1.90685721838572
53	56 (78,83,112,108)	0.999355	Y = 6.97e-001 X - 8.92e-004	-0.00089227127813185	0.696741560328289
54	57 (97,152,86)	0.998416	Y = 9.83e-001 X - 3.27e-003	-0.00326735698187119	0.982534433277263
55	58 (81,87,117,125,115,145)	0.999096	Y = 7.60e-001 X + 9.95e-004	0.000994669274042681	0.75951098464587
56	59 (116,85,111)	0.999734	Y = 9.55e-001 X - 3.70e-003	-0.00369590126437702	0.955469687718431
57	60 (120,136)	0.999609	Y = 7.72e-001 X - 2.00e-003	-0.00199522679699027	0.771795849662583
58	61 (77,110,148)	0.999316	Y = 6.99e-001 X - 5.28e-003	-0.00527836180821928	0.699080508987253
59	62 (154)	1.000000	Y = 7.11e-001 X	0	0.71130310696467
60	63 (82)	0.997002	Y = 9.38e-001 X + 3.62e-003	0.0036203962758749	0.937575562680917
61	64 (151)	0.999447	Y = 7.73e-001 X + 5.10e-003	0.00509705466801091	0.772582268426784
62	65 (124,135)	0.998282	Y = 1.28e+000 X + 3.13e-003	0.00313423642198085	1.28206092263176
63	66 (144)	0.999835	Y = 5.06e-001 X - 4.41e-004	-0.00044146933059446	0.505503248842196
64	67 (107,109,147)	0.999354	Y = 7.60e-001 X - 8.93e-004	-0.00089312051045831	0.759765687099173
65	68 (123)	1.000000	Y = 7.70e-001 X	0	0.769563853971667
66	69 (106,118,139,149)	0.999198	Y = 8.59e-001 X + 1.13e-002	0.0113467282905373	0.85885310852236
67	70 (140)	1.000000	Y = 8.14e-001 X	0	0.813821753273992
68	71 (114,134,143)	0.996791	Y = 9.90e-001 X + 1.10e-003	0.00109507649459528	0.98995829343812
69	72 (122,131,133,142)	0.998963	Y = 2.06e+000 X - 1.47e-004	-0.00014699669591231	2.06215739442918
70	73 (146,165,188)	0.997231	Y = 9.82e-001 X - 5.59e-004	-0.00055898448123797	0.981755005704735
71	74 (105,132,161)	0.999543	Y = 1.10e+000 X + 2.05e-003	0.00204720262696267	1.10073134524835
72	75 (153)	0.999058	Y = 1.06e+000 X + 9.13e-003	0.00913397778546488	1.05643617113411
73	76 (127,168,184)	1.000000	Y = 6.63e-001 X	0	0.662614656511015
74	77 (141)	0.998580	Y = 6.66e-001 X + 7.26e-004	0.000726456693527	0.666218065393652
75	78 (179)	0.997428	Y = 8.24e-001 X + 2.73e-005	2.7319174270346E-5	0.824102698371263
76	79 (137)	0.999964	Y = 8.37e-001 X + 2.76e-004	0.000275715034236547	0.837049243693505



Project Name:	GC16_May_2009	Current Time:	16:23:22
Sample Set Name:	GC16_082309a	Current Date:	10/16/2009
Processing Method:	CSGB_LL1X_082309	Calibration ID:	13506,13656
Run Time:	60 Minutes	Calibration Date(s):	08/23/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.997221	Y = 1.81e+000 X + 2.21e-003	0.00220808410031231	1.80617206501532
78	82 (138,163,164)	0.999086	Y = 9.59e-001 X + 1.64e-002	0.0163962096141765	0.959357538827507
79	83 (158,160,186)	0.998076	Y = 1.22e+000 X + 3.84e-003	0.00383730580819436	1.22403538482793
80	84 (126,129)	0.999921	Y = 7.16e+000 X - 1.02e-003	-0.0010169215844005	7.16239894004932
81	85 (166,178)	0.999269	Y = 5.46e-001 X - 1.74e-003	-0.00174232352807757	0.546065284242855
82	87 (175,159)	0.997907	Y = 6.77e-001 X - 8.26e-004	-0.00082550261690972	0.677419995287286
83	88 (182,187)	0.999692	Y = 9.45e-001 X + 2.38e-002	0.0237746678649109	0.945448393039283
84	89 (128,162)	0.997455	Y = 1.62e+000 X - 9.37e-004	-0.00093717667967063	1.62090770013763
85	90 (183)	0.998919	Y = 9.28e-001 X - 9.69e-003	-0.00968843132498631	0.927903589256649
86	91 (167)	0.999637	Y = 1.82e+000 X - 7.72e-004	-0.00077158670663528	1.81719867853614
87	92 (185)	0.999223	Y = 1.34e+000 X + 2.80e-003	0.00279575322946024	1.34115536940091
88	93 (174,181)	0.999764	Y = 9.17e-001 X + 1.50e-002	0.0149610719195108	0.916849056922926
89	94 (177)	0.999316	Y = 8.14e-001 X + 2.40e-003	0.00239738708996562	0.813990152366728
90	95 (156,171)	0.999470	Y = 8.83e-001 X - 4.14e-003	-0.00413990273083431	0.883476486883518
91	96 (157,202)	0.999833	Y = 6.07e+000 X + 3.75e-003	0.0037473033113688	6.06533724310093
92	98 (173)	0.995434	Y = 1.27e+000 X + 9.10e-004	0.000910324211345924	1.27009391321699
93	99 (201)	0.999519	Y = 8.14e-001 X + 1.37e-003	0.00137285179978336	0.813671112228541
94	100 (172,204)	0.999836	Y = 7.91e-001 X + 3.06e-003	0.0030613018794507	0.790792873880464
95	101 (192,197)	0.998986	Y = 7.92e-001 X + 9.71e-004	0.000971240314824803	0.79175447568383
96	102 (180)	0.999719	Y = 1.05e+000 X + 4.09e-002	0.040895239450335	1.04620529304539
97	103 (193)	0.999603	Y = 8.69e-001 X + 5.62e-004	0.000562266648669374	0.869453450791319
98	104 (191)	0.999874	Y = 9.08e-001 X - 1.06e-004	-0.00010648264862804	0.907718460139434
99	105 (200,169)	0.999680	Y = 9.07e-001 X - 8.29e-004	-0.00082928551244948	0.906747790327734
100	106 (170)	0.999935	Y = 1.59e+000 X + 9.57e-003	0.00957083545351622	1.58594500871684
101	107 (190)	0.999959	Y = 1.35e+000 X - 1.00e-003	-0.00100167292070918	1.34663560293384
102	108 (198)	0.999924	Y = 1.28e+000 X + 3.15e-003	0.00315169937761581	1.27606872681562
103	109 (199)	0.999653	Y = 6.14e-001 X + 3.57e-003	0.00357195742316518	0.61432259922954
104	110 (196,203)	0.999808	Y = 6.65e-001 X + 1.96e-002	0.0196198264294685	0.66490789965409
105	111 (189)	0.998284	Y = 1.39e+000 X + 3.43e-004	0.000342835428392099	1.39460829789726
106	112 (195)	0.999577	Y = 1.77e+000 X + 1.72e-004	0.000171863319533228	1.7656121142616
107	113 (208)	0.998357	Y = 6.34e-001 X + 1.15e-003	0.0011471857955701	0.63375215803562
108	114 (207)	0.999717	Y = 1.31e+000 X - 9.15e-004	-0.00091492958832448	1.30986058389035
109	115 (194)	0.999616	Y = 1.42e+000 X + 2.73e-002	0.0273393258160071	1.42214302195135
110	116 (205)	0.999937	Y = 8.98e-001 X - 4.47e-004	-0.00044665653333750	0.897692199238193
111	117 (206)	0.999060	Y = 1.37e+000 X - 3.79e-003	-0.00378942210764255	1.3693266605021
112	118 (209)	0.995604	Y = 1.11e+000 X - 1.51e-004	-0.00015145566795998	1.10896434916728
113	I.S. (OCN)	1.000000	Y = 9.10e+003 X	0	9099.96020396856

Calibration Component Summary Table  
Component Summary for RF  
(GC-24)



Project Name:	GC24_Mar_2009	Current Time:	08:46:27
Sample Set Name:	GC24_CC_090509	Current Date:	11/01/2009
Processing Method:	CSGB_LL1X_090509	Calibration ID:	29613,30080
Run Time:	60 Minutes	Calibration Date(s):	09/05/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999375	Y = 2.19e-002 X + 1.15e-003	0.00114918569866637	0.0218998940675526
2	3 (2)	1.000000	Y = 2.45e-003 X	0	0.00245098893045314
3	4 (3)	0.998832	Y = 1.12e-002 X - 6.60e-004	-0.00065959886838191	0.0111700989232165
4	5 (4,10)	0.999703	Y = 5.22e-002 X - 5.25e-004	-0.00052451384928620	0.0522240503887821
5	6 (7,9)	0.999625	Y = 3.59e-001 X + 5.06e-003	0.00505798707051908	0.358966795849906
6	7 (6)	0.999534	Y = 1.72e-001 X + 1.91e-004	0.000190992185699679	0.172245016954212
7	8 (5,8)	0.999446	Y = 9.23e-002 X + 1.73e-002	0.0172902146013778	0.0922684464936554
8	9 (14)	1.000000	Y = 1.34e-001 X	0	0.133517901084496
9	10 (19)	0.999493	Y = 2.81e-001 X - 8.00e-004	-0.00080007567192366	0.280620352159815
10	11 (30)	1.000000	Y = 5.01e-001 X	0	0.501488828934829
11	12 (11)	1.000000	Y = 5.70e-002 X	0	0.0570297654830576
12	13 (12,13)	0.999318	Y = 2.33e-001 X + 1.79e-004	0.000178964654987755	0.233272203578713
13	14 (15,18)	0.999498	Y = 2.68e-001 X + 8.44e-003	0.00843902895813453	0.267750144002629
14	15 (17)	0.998282	Y = 1.74e-001 X + 3.46e-003	0.00346017989162106	0.174457477141375
15	16 (24,27)	0.998877	Y = 4.61e-001 X + 2.18e-004	0.000218000583490308	0.460878660034993
16	17 (16,32)	0.999427	Y = 2.50e-001 X + 5.99e-003	0.00598935937379519	0.249883769805586
17	19 (23,34,54)	1.000000	Y = 3.04e-001 X	0	0.304293169080831
18	20 (29)	0.999809	Y = 4.08e-001 X + 3.51e-004	0.000351425726980489	0.40824989624556
19	21 (26)	0.999987	Y = 3.16e-001 X + 9.97e-004	0.000997409547049355	0.316291692984399
20	22 (25)	0.999972	Y = 4.47e-001 X + 3.06e-004	0.00030633724480178	0.446988160177157
21	23 (31)	0.999916	Y = 3.67e-001 X + 1.96e-002	0.0196306253619023	0.367222949057877
22	24 (28,50)	0.998758	Y = 4.66e-001 X + 3.10e-002	0.0309954255818892	0.46600369744225
23	25 (20,21,33,53)	0.999844	Y = 3.43e-001 X + 7.91e-003	0.0079085413701705	0.342670171746286
24	26 (22,51)	0.999924	Y = 3.30e-001 X + 5.98e-003	0.00597716049963515	0.32976122641193
25	27 (45)	0.999997	Y = 3.76e-001 X + 4.60e-003	0.00459942758604026	0.375655660398976
26	28 (36)	1.000000	Y = 2.42e-001 X	0	0.242069337889943
27	29 (46)	0.999960	Y = 3.35e-001 X - 4.72e-004	-0.00047239566193130	0.335290279600308
28	30 (39)	1.000000	Y = 2.31e-001 X	0	0.231102852203936
29	31 (52,69,73)	0.999164	Y = 2.70e-001 X + 1.28e-002	0.0127756574847226	0.270179768696834
30	32 (43,49)	0.999276	Y = 5.40e-001 X + 4.06e-003	0.00405905728350664	0.540133558869803
31	33 (38,47)	0.998535	Y = 7.53e-001 X + 1.32e-002	0.0131890914105818	0.753298649002196
32	34 (48,75)	0.999172	Y = 5.76e-001 X + 1.52e-003	0.00152231489331767	0.57646935941099
33	35 (62,65)	1.000000	Y = 6.09e-001 X	0	0.608915948915831
34	36 (35)	1.000000	Y = 2.32e-001 X	0	0.232450889234846
35	37 (104,44)	0.999409	Y = 4.10e-001 X + 3.90e-002	0.0390082706071018	0.409732213645608
36	38 (37,42,59)	0.999204	Y = 3.52e-001 X + 3.72e-003	0.00372222366506658	0.352013770053551
37	39 (41,64,71,72)	0.999541	Y = 5.40e-001 X + 2.14e-002	0.0213582928172595	0.539558812919517
38	41 (68,96)	1.000000	Y = 3.30e-001 X	0	0.32990601837551



Project Name:	GC24_Mar_2009	Current Time:	08:46:28
Sample Set Name:	GC24_CC_090509	Current Date:	11/01/2009
Processing Method:	CSGB_LL1X_090509	Calibration ID:	29613,30080
Run Time:	60 Minutes	Calibration Date(s):	09/05/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999842	Y = 4.73e-001 X - 1.07e-003	-0.00107390055135953	0.472760671880271
40	43 (57,103)	1.000000	Y = 4.63e-001 X	0	0.463250957624441
41	44 (58,67,100)	0.999878	Y = 6.04e-001 X + 3.96e-004	0.000395679645019187	0.603519689778075
42	45 (63)	0.999999	Y = 6.04e-001 X - 4.16e-005	-4.15816865692031E-5	0.603732264034578
43	46 (74,94,61)	0.999559	Y = 7.89e-001 X + 1.19e-002	0.011852950807834	0.789340532330662
44	47 (70)	0.999172	Y = 6.33e-001 X + 2.58e-002	0.0258408946762509	0.632664671251905
45	48 (66,76,98,80,93,95,102,88)	0.999175	Y = 4.27e-001 X + 3.74e-002	0.0374130322075761	0.427430089097727
46	49 (55,91,121)	0.999968	Y = 5.34e-001 X - 2.77e-003	-0.00277202329652881	0.534198313943678
47	50 (56,60)	0.999680	Y = 6.47e-001 X + 1.84e-002	0.0183891388292561	0.64685445965665
48	51 (84,92,155)	0.999520	Y = 2.57e-001 X + 4.55e-003	0.00454805164163247	0.256750901282339
49	52 (89)	0.999965	Y = 5.35e-001 X + 1.30e-005	1.29832263487603E-5	0.534797330943592
50	53 (90,101)	0.999212	Y = 5.43e-001 X + 1.34e-002	0.0134130467062864	0.543370201245317
51	54 (79,99,113)	0.999489	Y = 8.53e-001 X + 2.34e-003	0.00233511598008251	0.853281865869852
52	55 (119,150)	0.995727	Y = 1.26e+000 X - 6.94e-004	-0.00069390319978701	1.26338853786118
53	56 (78,83,112,108)	0.998632	Y = 4.98e-001 X - 6.77e-004	-0.00067721036458197	0.498192357499842
54	57 (97,152,86)	0.999451	Y = 7.27e-001 X + 9.13e-006	9.12601079799957E-6	0.726812331581486
55	58 (81,87,117,125,115,145)	0.998742	Y = 6.01e-001 X + 3.85e-003	0.00384725798850216	0.600801766163715
56	59 (116,85,111)	0.999913	Y = 7.66e-001 X - 6.05e-004	-0.00060500106327743	0.766416785008303
57	60 (120,136)	0.999486	Y = 4.39e-001 X - 4.63e-004	-0.00046258652809733	0.439110079192763
58	61 (77,110,148)	0.999527	Y = 6.09e-001 X + 5.49e-003	0.00549485702072605	0.609033681811419
59	62 (154)	1.000000	Y = 5.48e-001 X	0	0.547924380591247
60	63 (82)	0.999346	Y = 7.39e-001 X + 4.01e-003	0.00400920347385453	0.739321952135115
61	64 (151)	0.999545	Y = 5.98e-001 X + 1.03e-002	0.0103402158987131	0.598496988901143
62	65 (124,135)	0.999603	Y = 9.99e-001 X - 6.26e-004	-0.00062583428186552	0.99906852577177
63	66 (144)	0.999861	Y = 4.09e-001 X - 3.95e-004	-0.00039546434271656	0.408708436555084
64	67 (107,109,147)	0.997781	Y = 6.17e-001 X - 5.10e-004	-0.00051041831914983	0.617260133200578
65	68 (123)	1.000000	Y = 6.33e-001 X	0	0.633456361025202
66	69 (106,118,139,149)	0.998877	Y = 6.67e-001 X + 3.43e-002	0.0343210460556618	0.666517368827283
67	70 (140)	1.000000	Y = 6.45e-001 X	0	0.645168788064677
68	71 (114,134,143)	0.999829	Y = 6.61e-001 X - 3.57e-005	-3.57222781863092E-5	0.660860063860347
69	72 (122,131,133,142)	0.997904	Y = 1.01e+000 X + 5.74e-004	0.000574120786733346	1.01464575845702
70	73 (146,165,188)	0.999484	Y = 7.25e-001 X + 1.41e-003	0.00141400637965305	0.725245317137927
71	74 (105,132,161)	0.999667	Y = 8.76e-001 X + 4.93e-003	0.00492856875016012	0.876273956193995
72	75 (153)	0.998494	Y = 8.14e-001 X + 3.07e-002	0.0307154928391586	0.814466849730675
73	76 (127,168,184)	1.000000	Y = 5.54e-001 X	0	0.554248378495811
74	77 (141)	0.999715	Y = 5.01e-001 X + 5.09e-003	0.00508934789545379	0.501174797833575
75	78 (179)	0.998435	Y = 6.31e-001 X + 1.60e-002	0.0160191224558756	0.630858398874264
76	79 (137)	0.995478	Y = 5.83e-001 X + 1.21e-003	0.00121223519224356	0.58309669477838



Project Name:	GC24_Mar_2009	Current Time:	08:46:30
Sample Set Name:	GC24_CC_090509	Current Date:	11/01/2009
Processing Method:	CSGB_LL1X_090509	Calibration ID:	29613,30080
Run Time:	60 Minutes	Calibration Date(s):	09/05/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.998863	Y = 1.36e+000 X + 2.96e-004	0.000295823567599163	1.36322949172547
78	82 (138,163,164)	0.999253	Y = 7.64e-001 X + 2.62e-002	0.026195003293918	0.764227235503645
79	83 (158,160,186)	0.998715	Y = 8.89e-001 X - 7.12e-004	-0.00071194855604361	0.88876824078208
80	84 (126,129)	0.999555	Y = 2.08e+000 X + 7.33e-005	7.32863183465736E-5	2.07584569751773
81	85 (166,178)	0.999483	Y = 4.14e-001 X + 4.93e-003	0.00492934003768014	0.41425444609818
82	87 (175,159)	0.999998	Y = 4.68e-001 X - 1.03e-003	-0.00103101525548302	0.467634060719357
83	88 (182,187)	0.999041	Y = 7.40e-001 X + 4.31e-002	0.0431444520726716	0.74048766353272
84	89 (128,162)	0.998513	Y = 1.23e+000 X + 1.68e-003	0.00168427296164815	1.2347085107884
85	90 (183)	0.999418	Y = 7.38e-001 X + 7.35e-003	0.00734895488083565	0.737869261484257
86	91 (167)	0.997702	Y = 6.97e-001 X - 6.78e-004	-0.00067802761216278	0.697452344771515
87	92 (185)	0.999809	Y = 1.10e+000 X + 1.27e-004	0.000126710100648242	1.09722799132178
88	93 (174,181)	0.999605	Y = 7.31e-001 X + 3.97e-002	0.0397425988632096	0.730965696178334
89	94 (177)	0.999699	Y = 6.63e-001 X + 1.78e-002	0.0177542042332162	0.66306552674561
90	95 (156,171)	0.999970	Y = 7.27e-001 X + 5.00e-004	0.00049956838222537	0.726791371848532
91	96 (157,202)	0.999938	Y = 5.33e+000 X - 1.42e-003	-0.00142158978368123	5.32753438231565
92	98 (173)	0.995540	Y = 9.83e-001 X - 5.97e-004	-0.00059674799997845	0.983006754453052
93	99 (201)	0.999711	Y = 6.89e-001 X + 1.89e-003	0.00189280132272013	0.689204899270352
94	100 (172,204)	0.999597	Y = 6.75e-001 X - 2.13e-003	-0.00213407351871187	0.674569244735893
95	101 (192,197)	0.999544	Y = 6.14e-001 X + 7.96e-005	7.95671656876329E-5	0.613501101132981
96	102 (180)	0.998992	Y = 8.50e-001 X + 9.48e-002	0.094784911068877	0.850045898080203
97	103 (193)	0.999797	Y = 7.76e-001 X - 1.36e-004	-0.00013631400454039	0.775682441553267
98	104 (191)	0.999957	Y = 7.47e-001 X - 1.86e-003	-0.00186153721612049	0.74721552687875
99	105 (200,169)	0.999994	Y = 8.00e-001 X + 2.05e-003	0.00204843158660473	0.800116401767276
100	106 (170)	0.999252	Y = 1.35e+000 X + 2.46e-002	0.0245611165549038	1.35428531745479
101	107 (190)	0.999550	Y = 1.22e+000 X + 2.41e-003	0.00240799470191699	1.21500230128087
102	108 (198)	0.997942	Y = 1.14e+000 X + 2.11e-003	0.00210686185370315	1.14304815363678
103	109 (199)	0.999040	Y = 5.23e-001 X + 2.29e-002	0.0228825575335123	0.523075146096841
104	110 (196,203)	0.999386	Y = 5.73e-001 X + 3.12e-002	0.0312359614306845	0.572530626759449
105	111 (189)	0.999019	Y = 1.15e+000 X - 3.94e-004	-0.00039384436168186	1.14605850679149
106	112 (195)	0.999551	Y = 1.62e+000 X - 1.58e-003	-0.00157775963149598	1.62123386319432
107	113 (208)	0.999912	Y = 6.18e-001 X - 7.60e-004	-0.00075990496905098	0.617872245201678
108	114 (207)	1.000000	Y = 1.15e+000 X + 1.09e-003	0.00108770629785634	1.15180476963398
109	115 (194)	0.999730	Y = 1.29e+000 X + 1.46e-002	0.0145905351184505	1.28509431821167
110	116 (205)	0.999785	Y = 9.81e-001 X - 3.65e-004	-0.00036523267932367	0.980914805049389
111	117 (206)	0.999803	Y = 1.26e+000 X + 1.68e-003	0.00167504967320498	1.25554080748953
112	118 (209)	0.995280	Y = 1.14e+000 X + 1.86e-004	0.000186144881709868	1.13851615009832
113	I.S. (OCN)	1.000000	Y = 9.44e+003 X	0	9436.05309740311

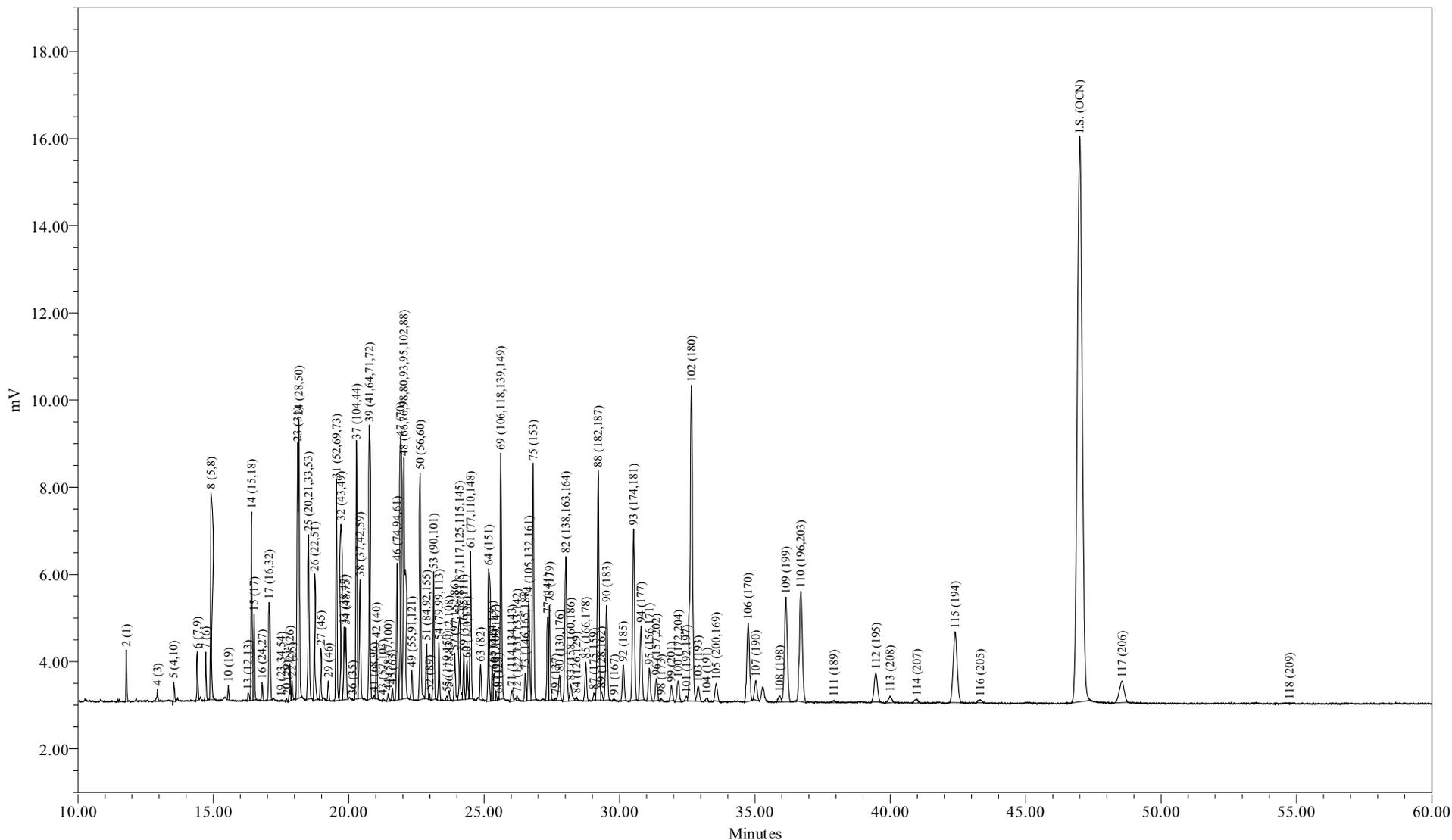
# Standards Raw Data (GC-16)



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: CCCS0922D  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 9/23/2009 8:17:00 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_082309  
LIMS File ID: GC16-798-19

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/23/2009 08:17:00  
 Lab Sample ID: CCCS0922D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-798-19

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 131 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	11.12	16.46
Di	13.05	16.26
Tri	18.38	19.92
Tetra	21.66	20.78
Penta	7.95	6.77
Hexa	7.72	6.03
Hepta	12.71	9.00
Octa	6.79	4.41
Nona	0.61	0.37
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	8.4130	36.9	30.0
A1242	23+24/31+28	6.8972	30.3	24.6
A1254SED	61/100	1.6464	7.23	
A1254BIO	69+75+82/149+153+138	6.9428		24.7
A1260	102/180	4.5560	20.0	16.2
A1268	115/194	1.2609	5.54	4.49

Ortho Cl / biphenyl Residue = 1.55

Meta + Para Cl / biphenyl Residue = 2.09

Total Cl / biphenyl Residue = 3.63

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/23/2009 08:17:00  
 Lab Sample ID: CCCS0922D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-798-19

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2177	8.41	44.6			
3	12.83	188.7		-	-			
4	12.94	188.7	834	6.15	32.6			
5	13.54	223.1	1271	2.30	10.3			
6	14.41	223.1	3331	0.801	3.59			
7	14.72	223.1	2625	1.30	5.81			
8	14.91	223.1	12310	11.6	51.9			
9	15.48	223.1		-	-			
10	15.55	257.5	784	0.239	0.927			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.29	223.1	682	0.265	1.19			
14	16.42	249.0	11637	3.37	13.5			
15	16.50	257.5	5503	3.28	12.8			
16	16.80	257.5	1175	0.233	0.903			
17	17.06	257.5	9800	3.36	13.1			
19	17.52	267.9	86	0.0240	0.0895			
20	17.71	257.5	233	0.0379	0.147			
21	17.83	257.5	2432	0.621	2.41			
22	17.91	257.5	1233	0.209	0.810			
23	18.11	257.5	15061	3.20	12.4			
24	18.16	257.5	19170	3.70	14.4			
25	18.52	259.5	13128	3.24	12.5			
26	18.75	258.7	8661	2.33	9.00			
27	18.97	292.0	3265	0.713	2.44			
28	19.12	257.5		-	-			
29	19.25	292.0	1264	0.299	1.02			
30	19.39	257.5		-	-			
31	19.55	292.0	14725	4.49	15.4			
32	19.72	292.0	11799	1.84	6.31			
33	19.83	292.0	4710	0.525	1.80			
34	19.89	292.0	4730	0.715	2.45			
35	20.04	292.0		-	-			
36	20.14	257.5	58	0.0227	0.0882			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	17542	3.52	12.0			
38	20.42	272.4	9362	2.27	8.33			
39	20.77	292.0	19509	3.05	10.4			
41	20.94	326.4	196	0.0487	0.149			
42	21.03	292.0	3967	0.732	2.51			
43	21.26	298.9	189	0.0345	0.115			
44	21.46	298.9	628	0.0901	0.301			
45	21.62	292.0	827	0.110	0.375			
46	21.79	292.0	9735	1.07	3.68			
47	21.92	292.0	19367	2.62	8.98			
48	22.04	293.5	25802	5.22	17.8			
49	22.34	324.7	2212	0.361	1.11			
50	22.64	292.0	17129	2.33	7.97			
51	22.88	326.4	4588	1.56	4.77			
52	22.98	326.4	355	0.0534	0.164			
53	23.14	326.4	8956	1.42	4.35			
54	23.33	326.4	4116	0.415	1.27			
55	23.63	326.4	352	0.0203	0.0622			
56	23.70	326.4	750	0.120	0.368			
57	23.92	326.4	3665	0.415	1.27			
58	24.10	326.4	6346	0.921	2.82			
59	24.25	326.4	3286	0.383	1.17			
60	24.37	360.9	3036	0.437	1.21			
61	24.50	326.4	10384	1.65	5.04			
62	24.79	360.9		-	-			
63	24.87	326.4	2577	0.299	0.917			
64	25.17	360.9	9479	1.35	3.73			
65	25.30	350.5	2504	0.213	0.608			
66	25.37	360.9	2226	0.487	1.35			
67	25.43	336.8	482	0.0711	0.211			
68	25.53	326.4	117	0.0168	0.0515			
69	25.61	337.5	22649	2.90	8.58			
70	25.74	360.9		-	-			
71	26.03	347.8	1160	0.128	0.368			
72	26.21	336.8	422	0.0226	0.0672			
73	26.52	360.9	2225	0.251	0.695			
74	26.65	347.8	9181	0.918	2.64			
75	26.81	360.9	20431	2.13	5.89			
76	26.93	360.9		-	-			
77	27.35	360.9	6987	1.16	3.20			
78	27.42	395.3	8196	1.10	2.78			
79	27.64	360.9	191	0.0248	0.0687			
80	27.79	360.9	2630	0.159	0.442			
82	28.02	360.9	16851	1.92	5.32			
83	28.20	360.9	2076	0.184	0.510			
84	28.41	360.9	317	0.00503	0.0139			
85	28.76	395.3	3932	0.798	2.02			
87	29.06	395.3	591	0.0975	0.247			
88	29.21	395.3	24322	2.81	7.12			
89	29.34	360.9	775	0.0534	0.148			
90	29.53	395.3	10133	1.22	3.07			
91	29.80	360.9	216	0.0135	0.0374			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.14	394.3	3979	0.325	0.825			
93	30.52	394.3	20015	2.39	6.07			
94	30.80	394.3	8772	1.19	3.01			
95	31.10	382.2	4014	0.506	1.32			
96	31.37	429.8	2683	0.0482	0.112			
98	31.53	395.3	202	0.0168	0.0425			
99	31.91	429.8	1942	0.262	0.609			
100	32.17	395.3	2803	0.387	0.980			
101	32.48	429.8	512	0.0701	0.163			
102	32.66	395.3	43569	4.56	11.5			
103	32.90	395.3	2076	0.263	0.665			
104	33.23	395.3	494	0.0601	0.152			
105	33.57	429.8	2396	0.292	0.681			
106	34.75	395.3	12489	0.863	2.18			
107	35.03	395.3	2834	0.233	0.589			
108	35.92	429.8	944	0.0791	0.184			
109	36.15	429.8	17937	3.22	7.48			
110	36.69	429.8	19605	3.22	7.50			
111	37.92	395.3	368	0.0289	0.0730			
112	39.47	429.8	5790	0.362	0.842			
113	39.99	464.2	1326	0.229	0.493			
114	40.99	464.2	857	0.0729	0.157			
115	42.39	429.8	16499	1.26	2.93			
116	43.32	429.8	629	0.0778	0.181			
117	48.56	464.2	6116	0.496	1.07			
118	54.74	498.6	49	0.00498	0.00999			

Total Concentration = 131 ng/mL

Total Nanomoles = 0.469

Average Molecular Weight = 279.4

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 164764.6

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/23/2009 08:17:00  
 Lab Sample ID: CCCS0922D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-798-19

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	6.426	9.514
3	12.83	1:0	002		3	-	-
4	12.94	1:0	003	0.2753	4	4.694	6.951
5	13.54	2:2	004 010	0.2881	2-2; 26	1.759	2.203
6	14.41	2:1	007 009	0.3066	24; 25	0.612	0.767
7	14.72	2:1	006	0.3132	2-3	0.990	1.240
8	14.91	2:1	005 008	0.3172	23; 2-4	8.849	11.082
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	0.182	0.198
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013	0.3466	34; 3-4	0.202	0.253
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	2.575	2.889
15	16.50	3:2	017	0.3511	24-2	2.508	2.722
16	16.80	3:2	024 027	0.3574	236; 26-3	0.178	0.193
17	17.06	3:2	016 032	0.3630	23-2; 26-4	2.569	2.788
19	17.52	3:1 4:4	023 034 054	0.3728	235; 35-2; 26-26	0.018	0.019
20	17.71	3:1	029	0.3768	245	0.029	0.031
21	17.83	3:1	026	0.3794	25-3	0.475	0.515
22	17.91	3:1	025	0.3811	24-3	0.159	0.173
23	18.11	3:1	031	0.3853	25-4	2.443	2.651
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	2.825	3.065
25	18.52	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.474	2.663
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	1.778	1.921
27	18.97	4:3	045	0.4036	236-2	0.544	0.521
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4096	23-26	0.228	0.219
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.427	3.279
32	19.72	4:2	043 049	0.4196	235-2; 24-25	1.407	1.347
33	19.83	4:2	038 047	0.4219	345; 24-24	0.401	0.384
34	19.89	4:2	048 075	0.4232	245-2; 246-4	0.546	0.523
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.14	3:0	035	0.4285	34-3	0.017	0.019
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	2.685	2.569
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.732	1.777

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.77	4:2	<b>041 064 071 072</b>	0.4419	234-2; 236-4; 26-34; 25-35	2.330	2.230
41	20.94	5:4	<b>068 096</b>	0.4455	24-35; 236-26	0.037	0.032
42	21.03	4:2	<b>040</b>	0.4474	23-23	0.559	0.535
43	21.26	4:1 5:3	<b>057 103</b>	0.4523	235-3; 246-25	0.026	0.025
44	21.46	4:1 5:3	<b>058 067 100</b>	0.4566	23-35; 245-3; 246-24	0.069	0.064
45	21.62	4:1	<b>063</b>	0.4600	235-4	0.084	0.080
46	21.79	4:1 5:3	<b>074 094 061</b>	0.4636	245-4; 235-26; 2345	0.820	0.785
47	21.92	4:1	<b>070</b>	0.4664	25-34	2.003	1.917
48	22.04	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.986	3.794
49	22.34	4:1 5:3	<b>055 091 121</b>	0.4753	234-3; 236-24; 246-35	0.276	0.237
50	22.64	4:1	<b>056 060</b>	0.4817	23-34; 234-4	1.778	1.701
51	22.88	5:3 6:4	<b>084 092 155</b>	0.4868	236-23; 235-25; 246-246	1.189	1.018
52	22.98	5:3	<b>089</b>	0.4889	234-26	0.041	0.035
53	23.14	5:2	<b>090 101</b>	0.4923	235-24; 245-25	1.085	0.929
54	23.33	5:2	<b>079 099 113</b>	0.4964	34-35; 245-24; 236-35	0.317	0.271
55	23.63	5:2 6:4	<b>119 150</b>	0.5028	246-34; 236-246	0.016	0.013
56	23.70	5:2	<b>078 083 112 108</b>	0.5043	345-3; 235-23; 2356-3; 2346-3	0.092	0.078
57	23.92	5:2 6:4	<b>098 152 086</b>	0.5089	245-23; 2356-26; 2345-2	0.317	0.271
58	24.10	5:2	<b>081 087 117 125 115 145</b>	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.703	0.602
59	24.25	5:2	<b>116 085 111</b>	0.5160	23456; 234-24; 235-35	0.293	0.251
60	24.37	6:4	<b>120 136</b>	0.5185	245-35; 236-236	0.333	0.258
61	24.50	5:2	<b>077 110 148</b>	0.5213	34-34; 236-34; 235-246	1.257	1.076
62	24.79	6:3	<b>154</b>		245-246	-	-
63	24.87	5:2	<b>082</b>	0.5291	234-23	0.229	0.196
64	25.17	6:3	<b>151</b>	0.5355	2356-25	1.029	0.797
65	25.30	5:1 6:3	<b>124 135</b>	0.5383	345-25; 235-236	0.163	0.130
66	25.37	6:3	<b>144</b>	0.5398	2346-25	0.372	0.288
67	25.43	5:1 6:3	<b>107 109 147</b>	0.5411	234-35; 235-34; 2356-24	0.054	0.045
68	25.53	5:1	<b>123</b>	0.5432	345-24	0.013	0.011
69	25.61	5:1 6:3	<b>106 118 139 149</b>	0.5449	2345-3; 245-34; 2346-24; 236-245	2.212	1.831
70	25.74	6:3	<b>140</b>		234-246	-	-
71	26.03	5:1 6:3	<b>114 134 143</b>	0.5538	2345-4; 2356-23; 2345-26	0.098	0.079
72	26.21	5:1 6:3	<b>122 131 133 142</b>	0.5577	345-23; 2346-23; 235-235; 23456-2	0.017	0.014
73	26.52	6:2	<b>146 165 188</b>	0.5643	235-245; 2356-35; 2356-246	0.191	0.148
74	26.65	5:1 6:3	<b>105 132 161</b>	0.5670	234-34; 234-236; 2346-35	0.702	0.564
75	26.81	6:2	<b>153</b>	0.5704	245-245	1.623	1.257
76	26.93	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	<b>141</b>	0.5819	2345-25	0.883	0.684
78	27.42	7:4	<b>179</b>	0.5834	2356-236	0.838	0.592
79	27.64	6:2	<b>137</b>	0.5881	2345-24	0.019	0.015
80	27.79	6:2 7:4	<b>130 176</b>	0.5913	234-235; 2346-236	0.122	0.094
82	28.02	6:2	<b>138 163 164</b>	0.5962	234-245; 2356-34; 236-345	1.467	1.136
83	28.20	6:2	<b>158 160 186</b>	0.6000	2346-34; 23456-3; 23456-26	0.141	0.109
84	28.41	6:2	<b>126 129</b>	0.6045	345-34; 2345-23	0.004	0.003
85	28.76	7:3	<b>166 178</b>	0.6119	23456-4; 2356-235	0.609	0.431
87	29.06	7:3	<b>175 159</b>	0.6183	2346-235; 2345-35	0.074	0.053
88	29.21	7:3	<b>182 187</b>	0.6215	2345-246; 2356-245	2.149	1.519
89	29.34	6:2	<b>128 162</b>	0.6243	234-234; 235-345	0.041	0.032
90	29.53	7:3	<b>183</b>	0.6283	2346-245	0.928	0.656
91	29.80	6:1	<b>167</b>	0.6340	245-345	0.010	0.008
92	30.14	7:3	<b>185</b>	0.6413	23456-25	0.248	0.176
93	30.52	7:3	<b>174 181</b>	0.6494	2345-236; 23456-24	1.827	1.295
94	30.80	7:3	<b>177</b>	0.6553	2356-234	0.906	0.642
95	31.10	6:1 7:3	<b>156 171</b>	0.6617	2345-34; 2346-234	0.386	0.283
96	31.37	8:4	<b>157 202</b>	0.6674	234-345; 2356-2356	0.037	0.024
98	31.53	7:3	<b>173</b>	0.6709	23456-23	0.013	0.009
99	31.91	8:4	<b>201</b>	0.6789	2346-2356	0.200	0.130
100	32.17	7:2	<b>172 204</b>	0.6845	2345-235; 23456-246	0.296	0.209
101	32.48	8:4	<b>192 197</b>	0.6911	23456-35; 2346-2346	0.054	0.035
102	32.66	7:2	<b>180</b>	0.6949	2345-245	3.480	2.459
103	32.90	7:2	<b>193</b>	0.7000	2356-345	0.201	0.142
104	33.23	7:2	<b>191</b>	0.7070	2346-345	0.046	0.032

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.57	8:4	<b>200</b> 169	0.7143	23456-236; 345-345	0.223	0.145
106	34.75	7:2	<b>170</b>	0.7394	2345-234	0.659	0.466
107	35.03	7:2	<b>190</b>	0.7453	23456-34	0.178	0.126
108	35.92	8:3	<b>198</b>	0.7643	23456-235	0.060	0.039
109	36.15	8:3	<b>199</b>	0.7691	2345-2356	2.456	1.597
110	36.69	8:3	<b>196</b> <b>203</b>	0.7806	2345-2346; 23456-245	2.462	1.601
111	37.92	7:1	<b>189</b>	0.8068	2345-345	0.022	0.016
112	39.47	8:3	<b>195</b>	0.8398	23456-234	0.276	0.180
113	39.99	9:4	<b>208</b>	0.8509	23456-2356	0.175	0.105
114	40.99	9:4	<b>207</b>	0.8721	23456-2346	0.056	0.034
115	42.39	8:2	<b>194</b>	0.9019	2345-2345	0.963	0.626
116	43.32	8:2	<b>205</b>	0.9217	23456-345	0.059	0.039
117	48.56	9:3	<b>206</b>	1.033	23456-2345	0.378	0.228
118	54.74	10:4	<b>209</b>	1.165	23456-23456	0.004	0.002

Concentration = 131 ng/mL

Total Nanomoles = 0.469

Average Molecular Weight = 279.4

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

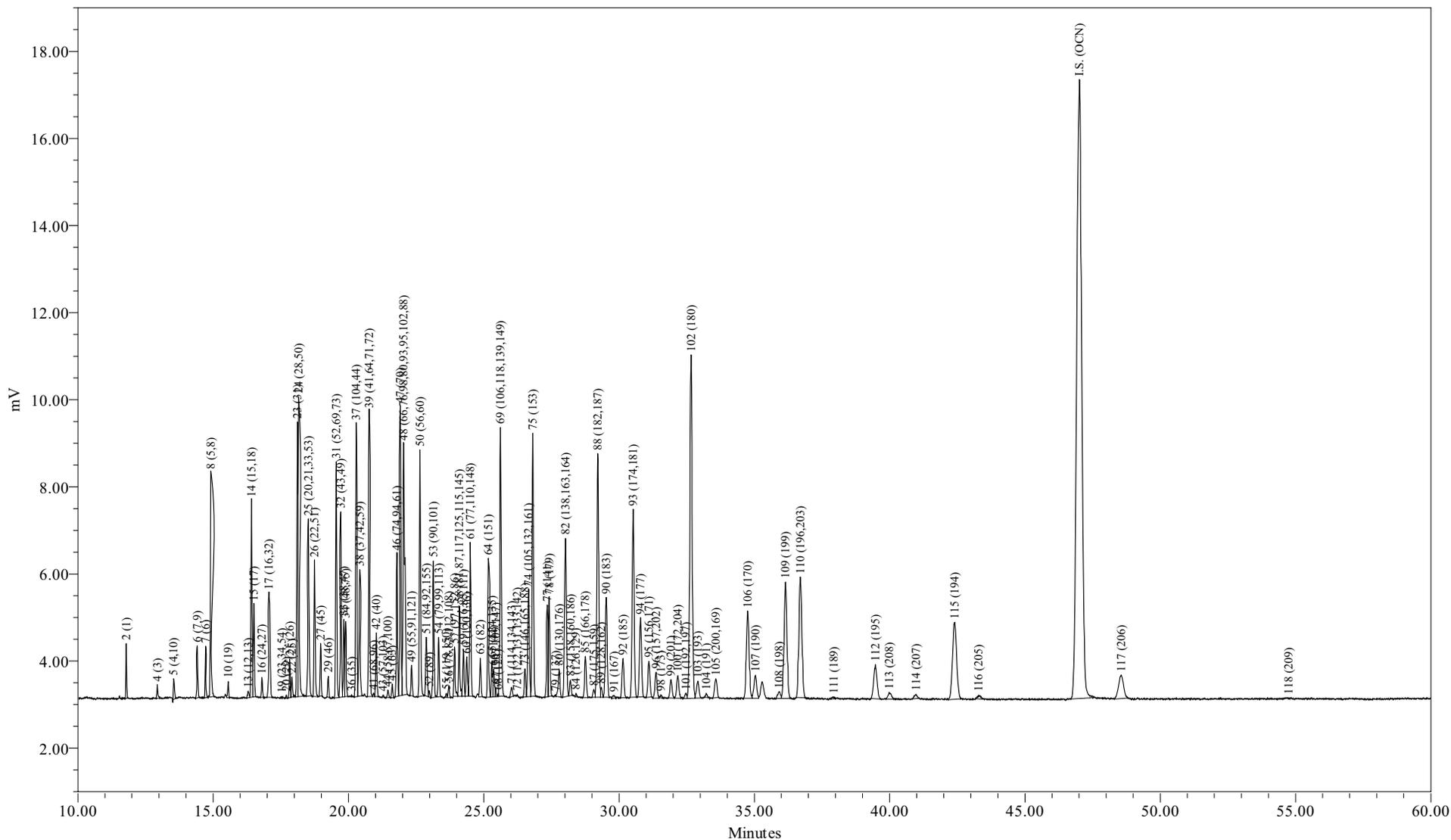
DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: CCCS0923A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 9/23/2009 9:46:16 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_082309  
LIMS File ID: GC16-799-9

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/23/2009 21:46:16  
 Lab Sample ID: CCCS0923A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-799-9

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 125 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.39	15.46
Di	13.11	16.41
Tri	18.45	20.10
Tetra	21.70	20.92
Penta	8.03	6.87
Hexa	7.63	5.99
Hepta	13.04	9.28
Octa	7.04	4.60
Nona	0.60	0.36
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Biota
A1221	2/001	7.8831	36.0	29.2
A1242	23+24/31+28	6.6671	30.5	24.7
A1254SED	61/100	1.6024	7.32	
A1254BIO	69+75+82/149+153+138	6.6800		24.8
A1260	102/180	4.4563	20.4	16.5
A1268	115/194	1.2688	5.80	4.71

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 2.11

Total Cl / biphenyl Residue = 3.68

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/23/2009 21:46:16  
 Lab Sample ID: CCCS0923A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-799-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2274	7.88	41.8			
3	12.83	188.7		-	-			
4	12.94	188.7	773	5.10	27.0			
5	13.54	223.1	1409	2.29	10.3			
6	14.41	223.1	3586	0.774	3.47			
7	14.72	223.1	2829	1.25	5.62			
8	14.91	223.1	13140	11.1	49.7			
9	15.48	223.1		-	-			
10	15.56	257.5	903	0.247	0.958			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.29	223.1	501	0.175	0.787			
14	16.42	249.0	12299	3.20	12.8			
15	16.50	257.5	5801	3.11	12.1			
16	16.80	257.5	1209	0.215	0.834			
17	17.06	257.5	10560	3.25	12.6			
19	17.54	267.9	121	0.0302	0.113			
20	17.70	257.5	129	0.0190	0.0736			
21	17.83	257.5	2428	0.557	2.16			
22	17.91	257.5	1324	0.201	0.780			
23	18.11	257.5	16657	3.17	12.3			
24	18.16	257.5	20183	3.49	13.6			
25	18.52	259.5	14111	3.12	12.0			
26	18.75	258.7	9185	2.22	8.56			
27	18.97	292.0	3306	0.648	2.22			
28	19.12	257.5		-	-			
29	19.25	292.0	1292	0.274	0.939			
30	19.39	257.5		-	-			
31	19.55	292.0	15722	4.30	14.7			
32	19.72	292.0	12578	1.76	6.04			
33	19.83	292.0	5097	0.510	1.75			
34	19.90	292.0	5082	0.689	2.36			
35	20.04	292.0		-	-			
36	20.11	257.5	55	0.0195	0.0756			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	18797	3.38	11.6			
38	20.42	272.4	10202	2.22	8.14			
39	20.77	292.0	21065	2.96	10.1			
41	20.93	326.4	192	0.0428	0.131			
42	21.03	292.0	4301	0.712	2.44			
43	21.28	298.9	127	0.0207	0.0693			
44	21.46	298.9	567	0.0732	0.245			
45	21.62	292.0	969	0.115	0.395			
46	21.79	292.0	10319	1.02	3.50			
47	21.92	292.0	20488	2.49	8.52			
48	22.04	293.5	27447	4.98	17.0			
49	22.33	324.7	2167	0.318	0.978			
50	22.64	292.0	18135	2.21	7.57			
51	22.88	326.4	4987	1.52	4.65			
52	22.99	326.4	458	0.0617	0.189			
53	23.14	326.4	9905	1.41	4.32			
54	23.34	326.4	4357	0.394	1.21			
55	23.62	326.4	246	0.0127	0.0390			
56	23.71	326.4	822	0.118	0.362			
57	23.92	326.4	3770	0.383	1.17			
58	24.10	326.4	6697	0.872	2.67			
59	24.25	326.4	3628	0.380	1.16			
60	24.37	360.9	3242	0.418	1.16			
61	24.50	326.4	11261	1.60	4.91			
62	24.79	360.9		-	-			
63	24.87	326.4	2816	0.293	0.899			
64	25.17	360.9	10086	1.29	3.56			
65	25.31	350.5	2694	0.206	0.587			
66	25.37	360.9	2088	0.410	1.14			
67	25.44	336.8	483	0.0641	0.190			
68	25.54	326.4	126	0.0162	0.0498			
69	25.62	337.5	24508	2.81	8.33			
70	25.74	360.9		-	-			
71	26.03	347.8	948	0.0937	0.269			
72	26.24	336.8	63	0.00310	0.00920			
73	26.53	360.9	2220	0.224	0.622			
74	26.66	347.8	9929	0.891	2.56			
75	26.81	360.9	21852	2.04	5.65			
76	26.93	360.9		-	-			
77	27.35	360.9	7594	1.13	3.12			
78	27.42	395.3	8718	1.05	2.65			
79	27.66	360.9	97	0.0112	0.0309			
80	27.79	360.9	2747	0.149	0.414			
82	28.02	360.9	17886	1.83	5.07			
83	28.21	360.9	1449	0.114	0.316			
84	28.41	360.9	238	0.00344	0.00953			
85	28.76	395.3	4226	0.769	1.95			
87	29.07	395.3	804	0.119	0.300			
88	29.21	395.3	26456	2.75	6.94			
89	29.34	360.9	844	0.0521	0.144			
90	29.53	395.3	10961	1.18	2.98			
91	29.81	360.9	358	0.0200	0.0553			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.15	394.3	4401	0.323	0.819			
93	30.52	394.3	21794	2.34	5.93			
94	30.79	394.3	9484	1.15	2.92			
95	31.10	382.2	4307	0.487	1.27			
96	31.37	429.8	3216	0.0519	0.121			
98	31.54	395.3	272	0.0205	0.0518			
99	31.92	429.8	2316	0.280	0.652			
100	32.17	395.3	3013	0.373	0.944			
101	32.47	429.8	633	0.0780	0.181			
102	32.66	395.3	47503	4.46	11.3			
103	32.92	395.3	2453	0.279	0.705			
104	33.23	395.3	391	0.0427	0.108			
105	33.58	429.8	2652	0.290	0.676			
106	34.75	395.3	13961	0.865	2.19			
107	35.04	395.3	3773	0.278	0.704			
108	35.92	429.8	1061	0.0799	0.186			
109	36.15	429.8	19745	3.18	7.39			
110	36.70	429.8	21205	3.13	7.28			
111	37.93	395.3	282	0.0198	0.0501			
112	39.47	429.8	6566	0.368	0.856			
113	39.98	464.2	1290	0.200	0.430			
114	40.97	464.2	680	0.0521	0.112			
115	42.41	429.8	18502	1.27	2.95			
116	43.28	429.8	752	0.0834	0.194			
117	48.56	464.2	6907	0.502	1.08			
118	54.75	498.6	31	0.00293	0.00587			

Total Concentration = 125 ng/mL

Total Nanomoles = 0.445

Average Molecular Weight = 280.8

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.01 minutes

Internal Standard Peak Area = 183625.1

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/23/2009 21:46:16  
 Lab Sample ID: CCCS0923A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-799-9

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2508	2	6.306	9.384
3	12.83	1:0	002		3	-	-
4	12.94	1:0	003	0.2753	4	4.083	6.076
5	13.54	2:2	004 010	0.2880	2-2; 26	1.832	2.306
6	14.41	2:1	007 009	0.3065	24; 25	0.619	0.780
7	14.72	2:1	006	0.3131	2-3	1.002	1.261
8	14.91	2:1	005 008	0.3172	23; 2-4	8.877	11.173
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019	0.3310	26-2	0.197	0.215
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013	0.3465	34; 3-4	0.140	0.177
14	16.42	2:0 3:2	015 018	0.3493	4-4; 25-2	2.557	2.884
15	16.50	3:2	017	0.3510	24-2	2.485	2.711
16	16.80	3:2	024 027	0.3574	236; 26-3	0.172	0.187
17	17.06	3:2	016 032	0.3629	23-2; 26-4	2.601	2.837
19	17.54	3:1 4:4	023 034 054	0.3731	235; 35-2; 26-26	0.024	0.025
20	17.70	3:1	029	0.3765	245	0.015	0.017
21	17.83	3:1	026	0.3793	25-3	0.446	0.486
22	17.91	3:1	025	0.3810	24-3	0.161	0.175
23	18.11	3:1	031	0.3852	25-4	2.539	2.769
24	18.16	3:1 4:3	028 050	0.3863	24-4; 246-2	2.794	3.047
25	18.52	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.498	2.703
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	1.772	1.923
27	18.97	4:3	045	0.4035	236-2	0.518	0.498
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4095	23-26	0.219	0.211
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4159	25-25; 246-3; 26-35	3.439	3.307
32	19.72	4:2	043 049	0.4195	235-2; 24-25	1.410	1.356
33	19.83	4:2	038 047	0.4218	345; 24-24	0.408	0.392
34	19.90	4:2	048 075	0.4233	245-2; 246-4	0.551	0.530
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.11	3:0	035	0.4278	34-3	0.016	0.017
37	20.29	5:4 4:2	104 044	0.4316	246-26; 23-25	2.703	2.600
38	20.42	3:0 4:2	037 042 059	0.4344	34-4; 23-24; 236-3	1.774	1.829

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.77	4:2	<b>041 064 071 072</b>	0.4418	234-2; 236-4; 26-34; 25-35	2.364	2.274
41	20.93	5:4	<b>068 096</b>	0.4452	24-35; 236-26	0.034	0.029
42	21.03	4:2	<b>040</b>	0.4474	23-23	0.570	0.548
43	21.28	4:1 5:3	<b>057 103</b>	0.4527	235-3; 246-25	0.017	0.016
44	21.46	4:1 5:3	<b>058 067 100</b>	0.4565	23-35; 245-3; 246-24	0.059	0.055
45	21.62	4:1	<b>063</b>	0.4599	235-4	0.092	0.089
46	21.79	4:1 5:3	<b>074 094 061</b>	0.4635	245-4; 235-26; 2345	0.817	0.786
47	21.92	4:1	<b>070</b>	0.4663	25-34	1.991	1.915
48	22.04	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4688	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.983	3.811
49	22.33	4:1 5:3	<b>055 091 121</b>	0.4750	234-3; 236-24; 246-35	0.254	0.220
50	22.64	4:1	<b>056 060</b>	0.4816	23-34; 234-4	1.768	1.701
51	22.88	5:3 6:4	<b>084 092 155</b>	0.4867	236-23; 235-25; 246-246	1.215	1.045
52	22.99	5:3	<b>089</b>	0.4890	234-26	0.049	0.042
53	23.14	5:2	<b>090 101</b>	0.4922	235-24; 245-25	1.128	0.970
54	23.34	5:2	<b>079 099 113</b>	0.4965	34-35; 245-24; 236-35	0.315	0.271
55	23.62	5:2 6:4	<b>119 150</b>	0.5024	246-34; 236-246	0.010	0.009
56	23.71	5:2	<b>078 083 112 108</b>	0.5044	345-3; 235-23; 2356-3; 2346-3	0.094	0.081
57	23.92	5:2 6:4	<b>098 152 086</b>	0.5088	245-23; 2356-26; 2345-2	0.307	0.264
58	24.10	5:2	<b>081 087 117 125 115 145</b>	0.5127	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.697	0.600
59	24.25	5:2	<b>116 085 111</b>	0.5158	23456; 234-24; 235-35	0.304	0.261
60	24.37	6:4	<b>120 136</b>	0.5184	245-35; 236-236	0.335	0.260
61	24.50	5:2	<b>077 110 148</b>	0.5212	34-34; 236-34; 235-246	1.282	1.103
62	24.79	6:3	<b>154</b>		245-246	-	-
63	24.87	5:2	<b>082</b>	0.5290	234-23	0.235	0.202
64	25.17	6:3	<b>151</b>	0.5354	2356-25	1.029	0.800
65	25.31	5:1 6:3	<b>124 135</b>	0.5384	345-25; 235-236	0.164	0.132
66	25.37	6:3	<b>144</b>	0.5397	2346-25	0.328	0.255
67	25.44	5:1 6:3	<b>107 109 147</b>	0.5412	234-35; 235-34; 2356-24	0.051	0.043
68	25.54	5:1	<b>123</b>	0.5433	345-24	0.013	0.011
69	25.62	5:1 6:3	<b>106 118 139 149</b>	0.5450	2345-3; 245-34; 2346-24; 236-245	2.249	1.872
70	25.74	6:3	<b>140</b>		234-246	-	-
71	26.03	5:1 6:3	<b>114 134 143</b>	0.5537	2345-4; 2356-23; 2345-26	0.075	0.061
72	26.24	5:1 6:3	<b>122 131 133 142</b>	0.5582	345-23; 2346-23; 235-235; 23456-2	0.002	0.002
73	26.53	6:2	<b>146 165 188</b>	0.5643	235-245; 2356-35; 2356-246	0.180	0.140
74	26.66	5:1 6:3	<b>105 132 161</b>	0.5671	234-34; 234-236; 2346-35	0.713	0.576
75	26.81	6:2	<b>153</b>	0.5703	245-245	1.631	1.269
76	26.93	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	<b>141</b>	0.5818	2345-25	0.902	0.702
78	27.42	7:4	<b>179</b>	0.5833	2356-236	0.838	0.595
79	27.66	6:2	<b>137</b>	0.5884	2345-24	0.009	0.007
80	27.79	6:2 7:4	<b>130 176</b>	0.5912	234-235; 2346-236	0.119	0.093
82	28.02	6:2	<b>138 163 164</b>	0.5960	234-245; 2356-34; 236-345	1.463	1.138
83	28.21	6:2	<b>158 160 186</b>	0.6001	2346-34; 23456-3; 23456-26	0.091	0.071
84	28.41	6:2	<b>126 129</b>	0.6043	345-34; 2345-23	0.003	0.002
85	28.76	7:3	<b>166 178</b>	0.6118	23456-4; 2356-235	0.616	0.437
87	29.07	7:3	<b>175 159</b>	0.6184	2346-235; 2345-35	0.095	0.067
88	29.21	7:3	<b>182 187</b>	0.6214	2345-246; 2356-245	2.196	1.560
89	29.34	6:2	<b>128 162</b>	0.6241	234-234; 235-345	0.042	0.032
90	29.53	7:3	<b>183</b>	0.6282	2346-245	0.944	0.671
91	29.81	6:1	<b>167</b>	0.6341	245-345	0.016	0.012
92	30.15	7:3	<b>185</b>	0.6414	23456-25	0.258	0.184
93	30.52	7:3	<b>174 181</b>	0.6492	2345-236; 23456-24	1.869	1.331
94	30.79	7:3	<b>177</b>	0.6550	2356-234	0.920	0.655
95	31.10	6:1 7:3	<b>156 171</b>	0.6616	2345-34; 2346-234	0.390	0.286
96	31.37	8:4	<b>157 202</b>	0.6673	234-345; 2356-2356	0.041	0.027
98	31.54	7:3	<b>173</b>	0.6709	23456-23	0.016	0.012
99	31.92	8:4	<b>201</b>	0.6790	2346-2356	0.224	0.146
100	32.17	7:2	<b>172 204</b>	0.6843	2345-235; 23456-246	0.299	0.212
101	32.47	8:4	<b>192 197</b>	0.6907	23456-35; 2346-2346	0.062	0.041
102	32.66	7:2	<b>180</b>	0.6947	2345-245	3.565	2.532
103	32.92	7:2	<b>193</b>	0.7003	2356-345	0.223	0.158
104	33.23	7:2	<b>191</b>	0.7069	2346-345	0.034	0.024

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.58	8:4	<b>200</b> 169	0.7143	23456-236; 345-345	0.232	0.152
106	34.75	7:2	<b>170</b>	0.7392	2345-234	0.692	0.492
107	35.04	7:2	<b>190</b>	0.7454	23456-34	0.222	0.158
108	35.92	8:3	<b>198</b>	0.7641	23456-235	0.064	0.042
109	36.15	8:3	<b>199</b>	0.7690	2345-2356	2.541	1.660
110	36.70	8:3	<b>196</b> <b>203</b>	0.7807	2345-2346; 23456-245	2.502	1.635
111	37.93	7:1	<b>189</b>	0.8068	2345-345	0.016	0.011
112	39.47	8:3	<b>195</b>	0.8396	23456-234	0.294	0.192
113	39.98	9:4	<b>208</b>	0.8505	23456-2356	0.160	0.097
114	40.97	9:4	<b>207</b>	0.8715	23456-2346	0.042	0.025
115	42.41	8:2	<b>194</b>	0.9021	2345-2345	1.015	0.663
116	43.28	8:2	<b>205</b>	0.9207	23456-345	0.067	0.044
117	48.56	9:3	<b>206</b>	1.033	23456-2345	0.402	0.243
118	54.75	10:4	<b>209</b>	1.165	23456-23456	0.002	0.001

Concentration = 125 ng/mL

Total Nanomoles = 0.445

Average Molecular Weight = 280.8

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

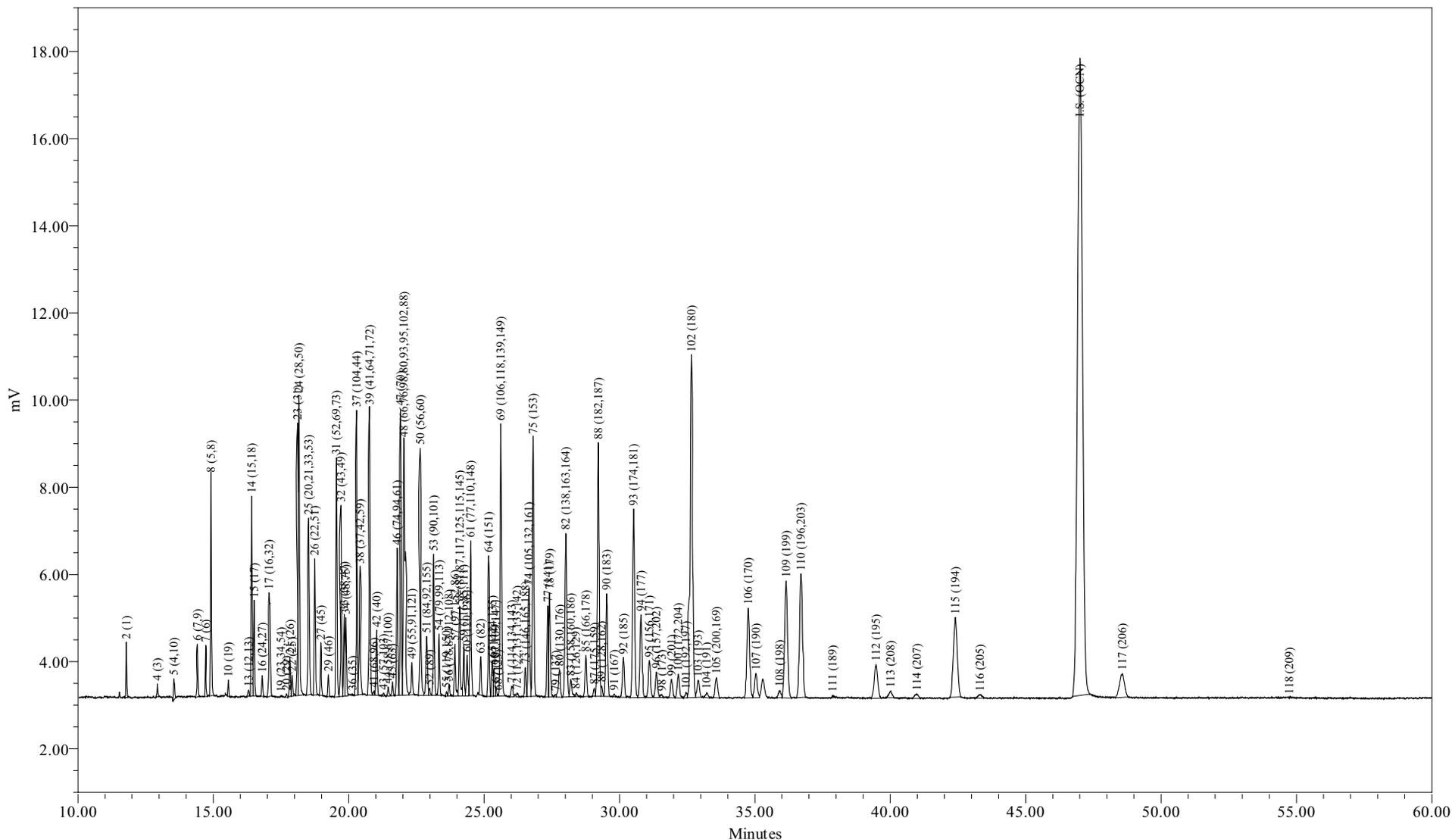
DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: CCCS0923B  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 9/24/2009 1:08:47 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_082309  
LIMS File ID: GC16-799-12

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 01:08:47  
 Lab Sample ID: CCCS0923B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-799-12

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 124 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	9.68	14.48
Di	13.00	16.37
Tri	18.36	20.11
Tetra	21.87	21.20
Penta	8.26	7.10
Hexa	7.83	6.18
Hepta	13.27	9.49
Octa	7.13	4.69
Nona	0.61	0.37
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.8924	36.3	29.4
A1242	23+24/31+28	6.5611	30.2	24.4
A1254SED	61/100	1.5946	7.34	
A1254BIO	69+75+82/149+153+138	6.7248		25.0
A1260	102/180	4.4572	20.5	16.6
A1268	115/194	1.2255	5.64	4.56

Ortho Cl / biphenyl Residue = 1.60

Meta + Para Cl / biphenyl Residue = 2.13

Total Cl / biphenyl Residue = 3.72

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 01:08:47  
 Lab Sample ID: CCCS0923B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-799-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2324	7.89	41.8			
3	12.83	188.7		-	-			
4	12.93	188.7	639	4.12	21.9			
5	13.54	223.1	1526	2.43	10.9			
6	14.41	223.1	3628	0.768	3.44			
7	14.72	223.1	2757	1.19	5.36			
8	14.91	223.1	13089	10.8	48.5			
9	15.48	223.1		-	-			
10	15.55	257.5	870	0.233	0.903			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.30	223.1	394	0.136	0.610			
14	16.42	249.0	12436	3.17	12.7			
15	16.51	257.5	5844	3.07	11.9			
16	16.81	257.5	1247	0.217	0.842			
17	17.06	257.5	10670	3.22	12.5			
19	17.50	267.9	96	0.0234	0.0874			
20	17.70	257.5	238	0.0341	0.132			
21	17.83	257.5	2508	0.564	2.19			
22	17.91	257.5	1398	0.208	0.807			
23	18.11	257.5	16139	3.01	11.7			
24	18.16	257.5	20939	3.55	13.8			
25	18.52	259.5	14200	3.08	11.9			
26	18.75	258.7	9186	2.17	8.39			
27	18.97	292.0	3443	0.661	2.26			
28	19.12	257.5		-	-			
29	19.25	292.0	1386	0.288	0.987			
30	19.39	257.5		-	-			
31	19.55	292.0	15928	4.27	14.6			
32	19.72	292.0	12850	1.76	6.04			
33	19.83	292.0	5275	0.517	1.77			
34	19.89	292.0	5484	0.729	2.50			
35	20.04	292.0		-	-			
36	20.14	257.5	116	0.0401	0.156			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	18904	3.33	11.4			
38	20.42	272.4	10339	2.20	8.08			
39	20.77	292.0	21176	2.91	9.97			
41	20.93	326.4	284	0.0622	0.190			
42	21.03	292.0	4496	0.729	2.50			
43	21.29	298.9	314	0.0502	0.168			
44	21.45	298.9	690	0.0869	0.291			
45	21.61	292.0	1006	0.117	0.402			
46	21.79	292.0	10508	1.02	3.49			
47	21.92	292.0	20789	2.47	8.47			
48	22.04	293.5	28279	5.03	17.1			
49	22.34	324.7	2566	0.368	1.13			
50	22.64	292.0	18611	2.22	7.61			
51	22.88	326.4	5374	1.60	4.91			
52	22.99	326.4	543	0.0716	0.219			
53	23.14	326.4	9970	1.39	4.26			
54	23.34	326.4	4542	0.403	1.23			
55	23.61	326.4	308	0.0156	0.0478			
56	23.71	326.4	839	0.118	0.362			
57	23.92	326.4	4026	0.401	1.23			
58	24.10	326.4	7068	0.901	2.76			
59	24.25	326.4	3720	0.381	1.17			
60	24.37	360.9	3430	0.434	1.20			
61	24.50	326.4	11440	1.59	4.89			
62	24.79	360.9		-	-			
63	24.88	326.4	2759	0.281	0.862			
64	25.17	360.9	10144	1.27	3.51			
65	25.31	350.5	2669	0.199	0.569			
66	25.37	360.9	2139	0.411	1.14			
67	25.43	336.8	556	0.0721	0.214			
68	25.53	326.4	119	0.0150	0.0459			
69	25.62	337.5	24995	2.81	8.32			
70	25.74	360.9		-	-			
71	26.02	347.8	1185	0.115	0.331			
72	26.22	336.8	347	0.0164	0.0486			
73	26.53	360.9	2329	0.231	0.639			
74	26.66	347.8	10181	0.895	2.57			
75	26.81	360.9	22459	2.05	5.69			
76	26.93	360.9		-	-			
77	27.36	360.9	7915	1.15	3.19			
78	27.42	395.3	9156	1.08	2.73			
79	27.64	360.9	253	0.0290	0.0805			
80	27.79	360.9	3083	0.164	0.455			
82	28.02	360.9	18593	1.86	5.16			
83	28.20	360.9	2028	0.158	0.437			
84	28.40	360.9	403	0.00560	0.0155			
85	28.76	395.3	4235	0.755	1.91			
87	29.07	395.3	707	0.103	0.259			
88	29.22	395.3	26841	2.73	6.90			
89	29.34	360.9	884	0.0535	0.148			
90	29.53	395.3	11076	1.17	2.96			
91	29.81	360.9	197	0.0110	0.0304			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.15	394.3	4655	0.335	0.848			
93	30.52	394.3	22592	2.37	6.02			
94	30.80	394.3	10120	1.20	3.05			
95	31.10	382.2	4815	0.533	1.40			
96	31.36	429.8	3260	0.0515	0.120			
98	31.56	395.3	341	0.0253	0.0641			
99	31.92	429.8	2528	0.300	0.697			
100	32.18	395.3	3319	0.403	1.02			
101	32.46	429.8	613	0.0738	0.172			
102	32.66	395.3	48504	4.46	11.3			
103	32.90	395.3	2473	0.275	0.696			
104	33.22	395.3	708	0.0757	0.192			
105	33.58	429.8	2906	0.312	0.725			
106	34.75	395.3	14363	0.872	2.21			
107	35.04	395.3	3925	0.283	0.717			
108	35.92	429.8	1088	0.0802	0.187			
109	36.16	429.8	20234	3.19	7.42			
110	36.71	429.8	21864	3.16	7.35			
111	37.87	395.3	265	0.0182	0.0459			
112	39.47	429.8	6952	0.382	0.888			
113	40.02	464.2	1229	0.186	0.401			
114	40.98	464.2	965	0.0722	0.155			
115	42.40	429.8	18252	1.23	2.85			
116	43.32	429.8	812	0.0882	0.205			
117	48.57	464.2	6970	0.496	1.07			
118	54.74	498.6	24	0.00220	0.00441			

Total Concentration = 124 ng/mL

Total Nanomoles = 0.440

Average Molecular Weight = 282.4

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 187457.2

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 01:08:47  
 Lab Sample ID: CCCS0923B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-799-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	6.355	9.511
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003	0.2751	4	3.320	4.969
5	13.54	2:2	004 010	0.2881	2-2; 26	1.957	2.478
6	14.41	2:1	007 009	0.3066	24; 25	0.618	0.782
7	14.72	2:1	006	0.3132	2-3	0.962	1.218
8	14.91	2:1	005 008	0.3172	23; 2-4	8.719	11.037
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	0.187	0.205
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.30	2:0	012 013	0.3468	34; 3-4	0.110	0.139
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	2.550	2.892
15	16.51	3:2	017	0.3513	24-2	2.469	2.708
16	16.81	3:2	024 027	0.3577	236; 26-3	0.175	0.192
17	17.06	3:2	016 032	0.3630	23-2; 26-4	2.592	2.842
19	17.50	3:1 4:4	023 034 054	0.3723	235; 35-2; 26-26	0.019	0.020
20	17.70	3:1	029	0.3766	245	0.027	0.030
21	17.83	3:1	026	0.3794	25-3	0.454	0.498
22	17.91	3:1	025	0.3811	24-3	0.167	0.184
23	18.11	3:1	031	0.3853	25-4	2.424	2.659
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	2.859	3.135
25	18.52	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.478	2.697
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	1.747	1.908
27	18.97	4:3	045	0.4036	236-2	0.532	0.515
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4096	23-26	0.232	0.225
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.435	3.322
32	19.72	4:2	043 049	0.4196	235-2; 24-25	1.420	1.374
33	19.83	4:2	038 047	0.4219	345; 24-24	0.416	0.403
34	19.89	4:2	048 075	0.4232	245-2; 246-4	0.587	0.568
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.14	3:0	035	0.4285	34-3	0.032	0.035
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	2.681	2.593
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.773	1.838

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.77	4:2	<b>041 064 071 072</b>	0.4419	234-2; 236-4; 26-34; 25-35	2.343	2.266
41	20.93	5:4	<b>068 096</b>	0.4453	24-35; 236-26	0.050	0.043
42	21.03	4:2	<b>040</b>	0.4474	23-23	0.587	0.568
43	21.29	4:1 5:3	<b>057 103</b>	0.4530	235-3; 246-25	0.040	0.038
44	21.45	4:1 5:3	<b>058 067 100</b>	0.4564	23-35; 245-3; 246-24	0.070	0.066
45	21.61	4:1	<b>063</b>	0.4598	235-4	0.094	0.091
46	21.79	4:1 5:3	<b>074 094 061</b>	0.4636	245-4; 235-26; 2345	0.821	0.794
47	21.92	4:1	<b>070</b>	0.4664	25-34	1.992	1.927
48	22.04	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.047	3.894
49	22.34	4:1 5:3	<b>055 091 121</b>	0.4753	234-3; 236-24; 246-35	0.296	0.258
50	22.64	4:1	<b>056 060</b>	0.4817	23-34; 234-4	1.790	1.731
51	22.88	5:3 6:4	<b>084 092 155</b>	0.4868	236-23; 235-25; 246-246	1.290	1.116
52	22.99	5:3	<b>089</b>	0.4891	234-26	0.058	0.050
53	23.14	5:2	<b>090 101</b>	0.4923	235-24; 245-25	1.119	0.968
54	23.34	5:2	<b>079 099 113</b>	0.4966	34-35; 245-24; 236-35	0.324	0.280
55	23.61	5:2 6:4	<b>119 150</b>	0.5023	246-34; 236-246	0.013	0.011
56	23.71	5:2	<b>078 083 112 108</b>	0.5045	345-3; 235-23; 2356-3; 2346-3	0.095	0.082
57	23.92	5:2 6:4	<b>097 152 086</b>	0.5089	245-23; 2356-26; 2345-2	0.323	0.279
58	24.10	5:2	<b>081 087 117 125 115 145</b>	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.726	0.628
59	24.25	5:2	<b>116 085 111</b>	0.5160	23456; 234-24; 235-35	0.307	0.266
60	24.37	6:4	<b>120 136</b>	0.5185	245-35; 236-236	0.349	0.273
61	24.50	5:2	<b>077 110 148</b>	0.5213	34-34; 236-34; 235-246	1.284	1.111
62	24.79	6:3	<b>154</b>		245-246	-	-
63	24.88	5:2	<b>082</b>	0.5294	234-23	0.227	0.196
64	25.17	6:3	<b>151</b>	0.5355	2356-25	1.020	0.798
65	25.31	5:1 6:3	<b>124 135</b>	0.5385	345-25; 235-236	0.161	0.129
66	25.37	6:3	<b>144</b>	0.5398	2346-25	0.331	0.259
67	25.43	5:1 6:3	<b>107 109 147</b>	0.5411	234-35; 235-34; 2356-24	0.058	0.049
68	25.53	5:1	<b>123</b>	0.5432	345-24	0.012	0.010
69	25.62	5:1 6:3	<b>106 118 139 149</b>	0.5451	2345-3; 245-34; 2346-24; 236-245	2.262	1.893
70	25.74	6:3	<b>140</b>		234-246	-	-
71	26.02	5:1 6:3	<b>114 134 143</b>	0.5536	2345-4; 2356-23; 2345-26	0.093	0.075
72	26.22	5:1 6:3	<b>122 131 133 142</b>	0.5579	345-23; 2346-23; 235-235; 23456-2	0.013	0.011
73	26.53	6:2	<b>146 165 188</b>	0.5645	235-245; 2356-35; 2356-246	0.186	0.145
74	26.66	5:1 6:3	<b>105 132 161</b>	0.5672	234-34; 234-236; 2346-35	0.721	0.585
75	26.81	6:2	<b>153</b>	0.5704	245-245	1.653	1.294
76	26.93	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.36	6:2	<b>141</b>	0.5821	2345-25	0.927	0.725
78	27.42	7:4	<b>179</b>	0.5834	2356-236	0.868	0.620
79	27.64	6:2	<b>137</b>	0.5881	2345-24	0.023	0.018
80	27.79	6:2 7:4	<b>130 176</b>	0.5913	234-235; 2346-236	0.132	0.104
82	28.02	6:2	<b>138 163 164</b>	0.5962	234-245; 2356-34; 236-345	1.500	1.174
83	28.20	6:2	<b>158 160 186</b>	0.6000	2346-34; 23456-3; 23456-26	0.127	0.099
84	28.40	6:2	<b>126 129</b>	0.6043	345-34; 2345-23	0.005	0.004
85	28.76	7:3	<b>166 178</b>	0.6119	23456-4; 2356-235	0.608	0.435
87	29.07	7:3	<b>175 159</b>	0.6185	2346-235; 2345-35	0.083	0.059
88	29.22	7:3	<b>182 187</b>	0.6217	2345-246; 2356-245	2.197	1.569
89	29.34	6:2	<b>128 162</b>	0.6243	234-234; 235-345	0.043	0.034
90	29.53	7:3	<b>183</b>	0.6283	2346-245	0.941	0.672
91	29.81	6:1	<b>167</b>	0.6343	245-345	0.009	0.007
92	30.15	7:3	<b>185</b>	0.6415	23456-25	0.269	0.193
93	30.52	7:3	<b>174 181</b>	0.6494	2345-236; 23456-24	1.911	1.369
94	30.80	7:3	<b>177</b>	0.6553	2356-234	0.969	0.694
95	31.10	6:1 7:3	<b>156 171</b>	0.6617	2345-34; 2346-234	0.429	0.317
96	31.36	8:4	<b>157 202</b>	0.6672	234-345; 2356-2356	0.041	0.027
98	31.56	7:3	<b>173</b>	0.6715	23456-23	0.020	0.015
99	31.92	8:4	<b>201</b>	0.6791	2346-2356	0.241	0.159
100	32.18	7:2	<b>172 204</b>	0.6847	2345-235; 23456-246	0.325	0.232
101	32.46	8:4	<b>192 197</b>	0.6906	23456-35; 2346-2346	0.059	0.039
102	32.66	7:2	<b>180</b>	0.6949	2345-245	3.589	2.564
103	32.90	7:2	<b>193</b>	0.7000	2356-345	0.222	0.158
104	33.22	7:2	<b>191</b>	0.7068	2346-345	0.061	0.044

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.58	8:4	<b>200</b> 169	0.7145	23456-236; 345-345	0.251	0.165
106	34.75	7:2	<b>170</b>	0.7394	2345-234	0.702	0.502
107	35.04	7:2	<b>190</b>	0.7455	23456-34	0.228	0.163
108	35.92	8:3	<b>198</b>	0.7643	23456-235	0.065	0.042
109	36.16	8:3	<b>199</b>	0.7694	2345-2356	2.567	1.687
110	36.71	8:3	<b>196</b> <b>203</b>	0.7811	2345-2346; 23456-245	2.544	1.672
111	37.87	7:1	<b>189</b>	0.8057	2345-345	0.015	0.010
112	39.47	8:3	<b>195</b>	0.8398	23456-234	0.307	0.202
113	40.02	9:4	<b>208</b>	0.8515	23456-2356	0.150	0.091
114	40.98	9:4	<b>207</b>	0.8719	23456-2346	0.058	0.035
115	42.40	8:2	<b>194</b>	0.9021	2345-2345	0.987	0.648
116	43.32	8:2	<b>205</b>	0.9217	23456-345	0.071	0.047
117	48.57	9:3	<b>206</b>	1.033	23456-2345	0.400	0.243
118	54.74	10:4	<b>209</b>	1.165	23456-23456	0.002	0.001

Concentration = 124 ng/mL

Total Nanomoles = 0.440

Average Molecular Weight = 282.4

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

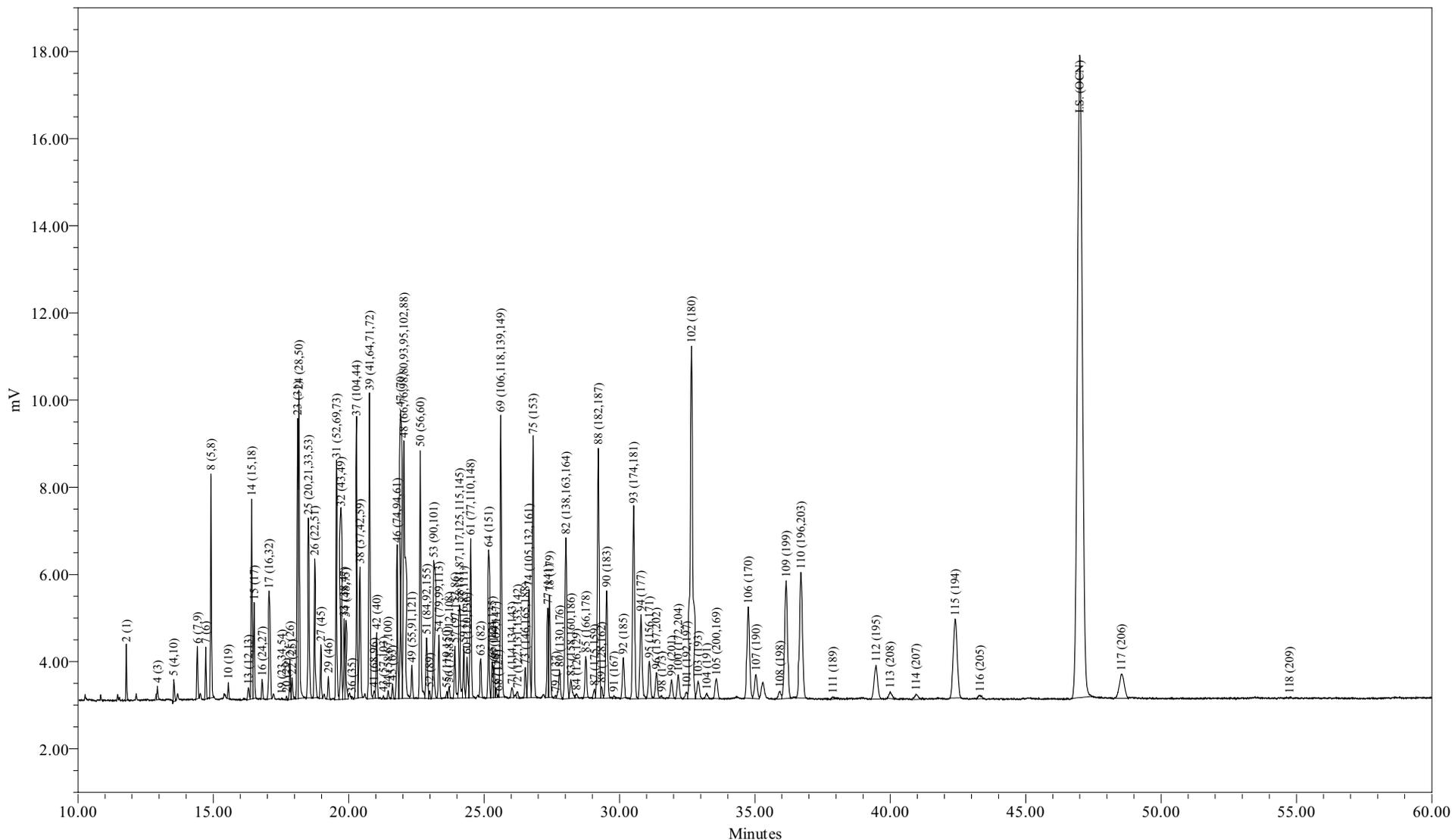
DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: CCCS0924A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 9/24/2009 12:23:19 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_082309  
LIMS File ID: GC16-800-5

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 12:23:19  
 Lab Sample ID: CCCS0924A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-800-5

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 126 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.22	15.25
Di	12.80	16.07
Tri	18.32	20.01
Tetra	21.89	21.16
Penta	8.28	7.10
Hexa	7.75	6.10
Hepta	13.11	9.35
Octa	7.01	4.59
Nona	0.61	0.37
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.9490	36.2	29.4
A1242	23+24/31+28	6.6979	30.5	24.8
A1254SED	61/100	1.6569	7.54	
A1254BIO	69+75+82/149+153+138	6.6874		24.8
A1260	102/180	4.4488	20.2	16.5
A1268	115/194	1.2285	5.59	4.55

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.12

Total Cl / biphenyl Residue = 3.70

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 12:23:19  
 Lab Sample ID: CCCS0924A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-800-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2365	7.95	42.1			
3	12.83	188.7		-	-			
4	12.94	188.7	763	4.89	25.9			
5	13.54	223.1	1436	2.27	10.2			
6	14.41	223.1	3520	0.737	3.31			
7	14.72	223.1	2802	1.20	5.39			
8	14.91	223.1	13130	10.8	48.2			
9	15.48	223.1		-	-			
10	15.55	257.5	854	0.226	0.877			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.30	223.1	974	0.328	1.47			
14	16.42	249.0	12556	3.17	12.7			
15	16.51	257.5	5901	3.06	11.9			
16	16.80	257.5	1203	0.207	0.804			
17	17.06	257.5	10779	3.22	12.5			
19	17.53	267.9	71	0.0171	0.0638			
20	17.70	257.5	213	0.0302	0.117			
21	17.83	257.5	2571	0.572	2.22			
22	17.91	257.5	1464	0.215	0.837			
23	18.11	257.5	16752	3.09	12.0			
24	18.16	257.5	21467	3.60	14.0			
25	18.52	259.5	14552	3.12	12.0			
26	18.75	258.7	9348	2.19	8.45			
27	18.97	292.0	3592	0.682	2.34			
28	19.12	257.5		-	-			
29	19.25	292.0	1490	0.307	1.05			
30	19.39	257.5		-	-			
31	19.55	292.0	16106	4.27	14.6			
32	19.72	292.0	13030	1.77	6.06			
33	19.83	292.0	5268	0.511	1.75			
34	19.90	292.0	5508	0.725	2.48			
35	20.04	292.0		-	-			
36	20.12	257.5	159	0.0543	0.211			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	19248	3.36	11.5			
38	20.42	272.4	10514	2.22	8.14			
39	20.77	292.0	21705	2.95	10.1			
41	20.94	326.4	617	0.133	0.409			
42	21.03	292.0	4544	0.730	2.50			
43	21.28	298.9	169	0.0267	0.0895			
44	21.46	298.9	587	0.0734	0.246			
45	21.61	292.0	1022	0.118	0.404			
46	21.79	292.0	10817	1.04	3.56			
47	21.92	292.0	21626	2.55	8.73			
48	22.04	293.5	29026	5.11	17.4			
49	22.33	324.7	2454	0.348	1.07			
50	22.64	292.0	19397	2.29	7.85			
51	22.88	326.4	5416	1.60	4.90			
52	22.99	326.4	534	0.0697	0.214			
53	23.14	326.4	10119	1.40	4.28			
54	23.33	326.4	4586	0.402	1.23			
55	23.63	326.4	427	0.0214	0.0657			
56	23.71	326.4	890	0.124	0.380			
57	23.92	326.4	4049	0.399	1.22			
58	24.10	326.4	7239	0.914	2.80			
59	24.25	326.4	3757	0.381	1.17			
60	24.37	360.9	3601	0.451	1.25			
61	24.51	326.4	12010	1.66	5.08			
62	24.79	360.9		-	-			
63	24.87	326.4	2880	0.291	0.892			
64	25.17	360.9	10238	1.27	3.51			
65	25.30	350.5	2876	0.213	0.607			
66	25.36	360.9	2273	0.433	1.20			
67	25.44	336.8	655	0.0839	0.249			
68	25.53	326.4	150	0.0187	0.0573			
69	25.62	337.5	24993	2.78	8.24			
70	25.74	360.9		-	-			
71	26.03	347.8	1068	0.102	0.295			
72	26.24	336.8	600	0.0280	0.0832			
73	26.53	360.9	2334	0.229	0.634			
74	26.66	347.8	10276	0.894	2.57			
75	26.81	360.9	22559	2.04	5.66			
76	26.93	360.9		-	-			
77	27.35	360.9	7671	1.10	3.06			
78	27.42	395.3	9033	1.05	2.66			
79	27.64	360.9	227	0.0257	0.0712			
80	27.79	360.9	3180	0.168	0.465			
82	28.02	360.9	18810	1.87	5.17			
83	28.21	360.9	2418	0.187	0.517			
84	28.41	360.9	432	0.00593	0.0164			
85	28.76	395.3	4168	0.736	1.86			
87	29.07	395.3	845	0.121	0.306			
88	29.22	395.3	27070	2.72	6.89			
89	29.33	360.9	979	0.0586	0.162			
90	29.53	395.3	11735	1.22	3.10			
91	29.79	360.9	244	0.0133	0.0369			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.14	394.3	4462	0.317	0.805			
93	30.52	394.3	22730	2.36	5.99			
94	30.79	394.3	10463	1.23	3.12			
95	31.10	382.2	4710	0.517	1.35			
96	31.37	429.8	3207	0.0501	0.117			
98	31.56	395.3	258	0.0188	0.0476			
99	31.93	429.8	2286	0.268	0.624			
100	32.17	395.3	3041	0.365	0.924			
101	32.48	429.8	870	0.104	0.243			
102	32.66	395.3	48906	4.45	11.3			
103	32.91	395.3	2636	0.290	0.735			
104	33.22	395.3	798	0.0845	0.214			
105	33.58	429.8	2840	0.302	0.702			
106	34.75	395.3	14181	0.852	2.16			
107	35.04	395.3	3884	0.278	0.702			
108	35.93	429.8	1222	0.0895	0.208			
109	36.16	429.8	20212	3.15	7.34			
110	36.70	429.8	22008	3.15	7.32			
111	37.88	395.3	429	0.0293	0.0741			
112	39.47	429.8	6978	0.379	0.883			
113	39.99	464.2	1185	0.178	0.383			
114	40.96	464.2	1139	0.0842	0.181			
115	42.39	429.8	18483	1.23	2.86			
116	43.31	429.8	716	0.0770	0.179			
117	48.53	464.2	7216	0.509	1.10			
118	54.74	498.6	42	0.00380	0.00763			

Total Concentration = 126 ng/mL

Total Nanomoles = 0.446

Average Molecular Weight = 281.5

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 189364.6

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 12:23:19  
 Lab Sample ID: CCCS0924A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-800-5

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	6.331	9.445
3	12.83	1:0	002		3	-	-
4	12.94	1:0	003	0.2753	4	3.891	5.806
5	13.54	2:2	004 010	0.2881	2-2; 26	1.804	2.276
6	14.41	2:1	007 009	0.3066	24; 25	0.587	0.741
7	14.72	2:1	006	0.3132	2-3	0.958	1.209
8	14.91	2:1	005 008	0.3172	23; 2-4	8.564	10.806
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	0.180	0.197
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.30	2:0	012 013	0.3468	34; 3-4	0.261	0.330
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	2.521	2.850
15	16.51	3:2	017	0.3513	24-2	2.441	2.669
16	16.80	3:2	024 027	0.3574	236; 26-3	0.165	0.180
17	17.06	3:2	016 032	0.3630	23-2; 26-4	2.564	2.803
19	17.53	3:1 4:4	023 034 054	0.3730	235; 35-2; 26-26	0.014	0.014
20	17.70	3:1	029	0.3766	245	0.024	0.026
21	17.83	3:1	026	0.3794	25-3	0.455	0.498
22	17.91	3:1	025	0.3811	24-3	0.172	0.188
23	18.11	3:1	031	0.3853	25-4	2.465	2.695
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	2.870	3.138
25	18.52	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.487	2.698
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	1.741	1.895
27	18.97	4:3	045	0.4036	236-2	0.543	0.524
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4096	23-26	0.245	0.236
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.401	3.279
32	19.72	4:2	043 049	0.4196	235-2; 24-25	1.410	1.360
33	19.83	4:2	038 047	0.4219	345; 24-24	0.407	0.392
34	19.90	4:2	048 075	0.4234	245-2; 246-4	0.577	0.557
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.12	3:0	035	0.4281	34-3	0.043	0.047
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	2.673	2.577
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.765	1.824

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.77	4:2	<b>041 064 071 072</b>	0.4419	234-2; 236-4; 26-34; 25-35	2.352	2.268
41	20.94	5:4	<b>068 096</b>	0.4455	24-35; 236-26	0.106	0.092
42	21.03	4:2	<b>040</b>	0.4474	23-23	0.581	0.560
43	21.28	4:1 5:3	<b>057 103</b>	0.4528	235-3; 246-25	0.021	0.020
44	21.46	4:1 5:3	<b>058 067 100</b>	0.4566	23-35; 245-3; 246-24	0.058	0.055
45	21.61	4:1	<b>063</b>	0.4598	235-4	0.094	0.091
46	21.79	4:1 5:3	<b>074 094 061</b>	0.4636	245-4; 235-26; 2345	0.827	0.798
47	21.92	4:1	<b>070</b>	0.4664	25-34	2.029	1.956
48	22.04	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.068	3.902
49	22.33	4:1 5:3	<b>055 091 121</b>	0.4751	234-3; 236-24; 246-35	0.277	0.241
50	22.64	4:1	<b>056 060</b>	0.4817	23-34; 234-4	1.827	1.761
51	22.88	5:3 6:4	<b>084 092 155</b>	0.4868	236-23; 235-25; 246-246	1.273	1.098
52	22.99	5:3	<b>089</b>	0.4891	234-26	0.056	0.048
53	23.14	5:2	<b>090 101</b>	0.4923	235-24; 245-25	1.112	0.959
54	23.33	5:2	<b>079 099 113</b>	0.4964	34-35; 245-24; 236-35	0.320	0.276
55	23.63	5:2 6:4	<b>119 150</b>	0.5028	246-34; 236-246	0.017	0.015
56	23.71	5:2	<b>078 083 112 108</b>	0.5045	345-3; 235-23; 2356-3; 2346-3	0.099	0.085
57	23.92	5:2 6:4	<b>098 152 086</b>	0.5089	245-23; 2356-26; 2345-2	0.318	0.274
58	24.10	5:2	<b>081 087 117 125 115 145</b>	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.728	0.628
59	24.25	5:2	<b>116 085 111</b>	0.5160	23456; 234-24; 235-35	0.304	0.262
60	24.37	6:4	<b>120 136</b>	0.5185	245-35; 236-236	0.359	0.280
61	24.51	5:2	<b>077 110 148</b>	0.5215	34-34; 236-34; 235-246	1.320	1.138
62	24.79	6:3	<b>154</b>		245-246	-	-
63	24.87	5:2	<b>082</b>	0.5291	234-23	0.232	0.200
64	25.17	6:3	<b>151</b>	0.5355	2356-25	1.008	0.786
65	25.30	5:1 6:3	<b>124 135</b>	0.5383	345-25; 235-236	0.170	0.136
66	25.36	6:3	<b>144</b>	0.5396	2346-25	0.345	0.269
67	25.44	5:1 6:3	<b>107 109 147</b>	0.5413	234-35; 235-34; 2356-24	0.067	0.056
68	25.53	5:1	<b>123</b>	0.5432	345-24	0.015	0.013
69	25.62	5:1 6:3	<b>106 118 139 149</b>	0.5451	2345-3; 245-34; 2346-24; 236-245	2.215	1.847
70	25.74	6:3	<b>140</b>		234-246	-	-
71	26.03	5:1 6:3	<b>114 134 143</b>	0.5538	2345-4; 2356-23; 2345-26	0.082	0.066
72	26.24	5:1 6:3	<b>122 131 133 142</b>	0.5583	345-23; 2346-23; 235-235; 23456-2	0.022	0.019
73	26.53	6:2	<b>146 165 188</b>	0.5645	235-245; 2356-35; 2356-246	0.182	0.142
74	26.66	5:1 6:3	<b>105 132 161</b>	0.5672	234-34; 234-236; 2346-35	0.712	0.577
75	26.81	6:2	<b>153</b>	0.5704	245-245	1.626	1.268
76	26.93	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	<b>141</b>	0.5819	2345-25	0.880	0.686
78	27.42	7:4	<b>179</b>	0.5834	2356-236	0.838	0.597
79	27.64	6:2	<b>137</b>	0.5881	2345-24	0.020	0.016
80	27.79	6:2 7:4	<b>130 176</b>	0.5913	234-235; 2346-236	0.134	0.104
82	28.02	6:2	<b>138 163 164</b>	0.5962	234-245; 2356-34; 236-345	1.486	1.159
83	28.21	6:2	<b>158 160 186</b>	0.6002	2346-34; 23456-3; 23456-26	0.149	0.116
84	28.41	6:2	<b>126 129</b>	0.6045	345-34; 2345-23	0.005	0.004
85	28.76	7:3	<b>166 178</b>	0.6119	23456-4; 2356-235	0.586	0.417
87	29.07	7:3	<b>175 159</b>	0.6185	2346-235; 2345-35	0.096	0.069
88	29.22	7:3	<b>182 187</b>	0.6217	2345-246; 2356-245	2.169	1.545
89	29.33	6:2	<b>128 162</b>	0.6240	234-234; 235-345	0.047	0.036
90	29.53	7:3	<b>183</b>	0.6283	2346-245	0.975	0.695
91	29.79	6:1	<b>167</b>	0.6338	245-345	0.011	0.008
92	30.14	7:3	<b>185</b>	0.6413	23456-25	0.253	0.180
93	30.52	7:3	<b>174 181</b>	0.6494	2345-236; 23456-24	1.883	1.344
94	30.79	7:3	<b>177</b>	0.6551	2356-234	0.981	0.700
95	31.10	6:1 7:3	<b>156 171</b>	0.6617	2345-34; 2346-234	0.411	0.303
96	31.37	8:4	<b>157 202</b>	0.6674	234-345; 2356-2356	0.040	0.026
98	31.56	7:3	<b>173</b>	0.6715	23456-23	0.015	0.011
99	31.93	8:4	<b>201</b>	0.6794	2346-2356	0.213	0.140
100	32.17	7:2	<b>172 204</b>	0.6845	2345-235; 23456-246	0.291	0.207
101	32.48	8:4	<b>192 197</b>	0.6911	23456-35; 2346-2346	0.083	0.054
102	32.66	7:2	<b>180</b>	0.6949	2345-245	3.543	2.523
103	32.91	7:2	<b>193</b>	0.7002	2356-345	0.231	0.165
104	33.22	7:2	<b>191</b>	0.7068	2346-345	0.067	0.048

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.58	8:4	<b>200</b> 169	0.7145	23456-236; 345-345	0.240	0.157
106	34.75	7:2	<b>170</b>	0.7394	2345-234	0.679	0.484
107	35.04	7:2	<b>190</b>	0.7455	23456-34	0.221	0.157
108	35.93	8:3	<b>198</b>	0.7645	23456-235	0.071	0.047
109	36.16	8:3	<b>199</b>	0.7694	2345-2356	2.511	1.645
110	36.70	8:3	<b>196</b> <b>203</b>	0.7809	2345-2346; 23456-245	2.507	1.642
111	37.88	7:1	<b>189</b>	0.8060	2345-345	0.023	0.017
112	39.47	8:3	<b>195</b>	0.8398	23456-234	0.302	0.198
113	39.99	9:4	<b>208</b>	0.8509	23456-2356	0.142	0.086
114	40.96	9:4	<b>207</b>	0.8715	23456-2346	0.067	0.041
115	42.39	8:2	<b>194</b>	0.9019	2345-2345	0.978	0.641
116	43.31	8:2	<b>205</b>	0.9215	23456-345	0.061	0.040
117	48.53	9:3	<b>206</b>	1.033	23456-2345	0.405	0.246
118	54.74	10:4	<b>209</b>	1.165	23456-23456	0.003	0.002

Concentration = 126 ng/mL

Total Nanomoles = 0.446

Average Molecular Weight = 281.5

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

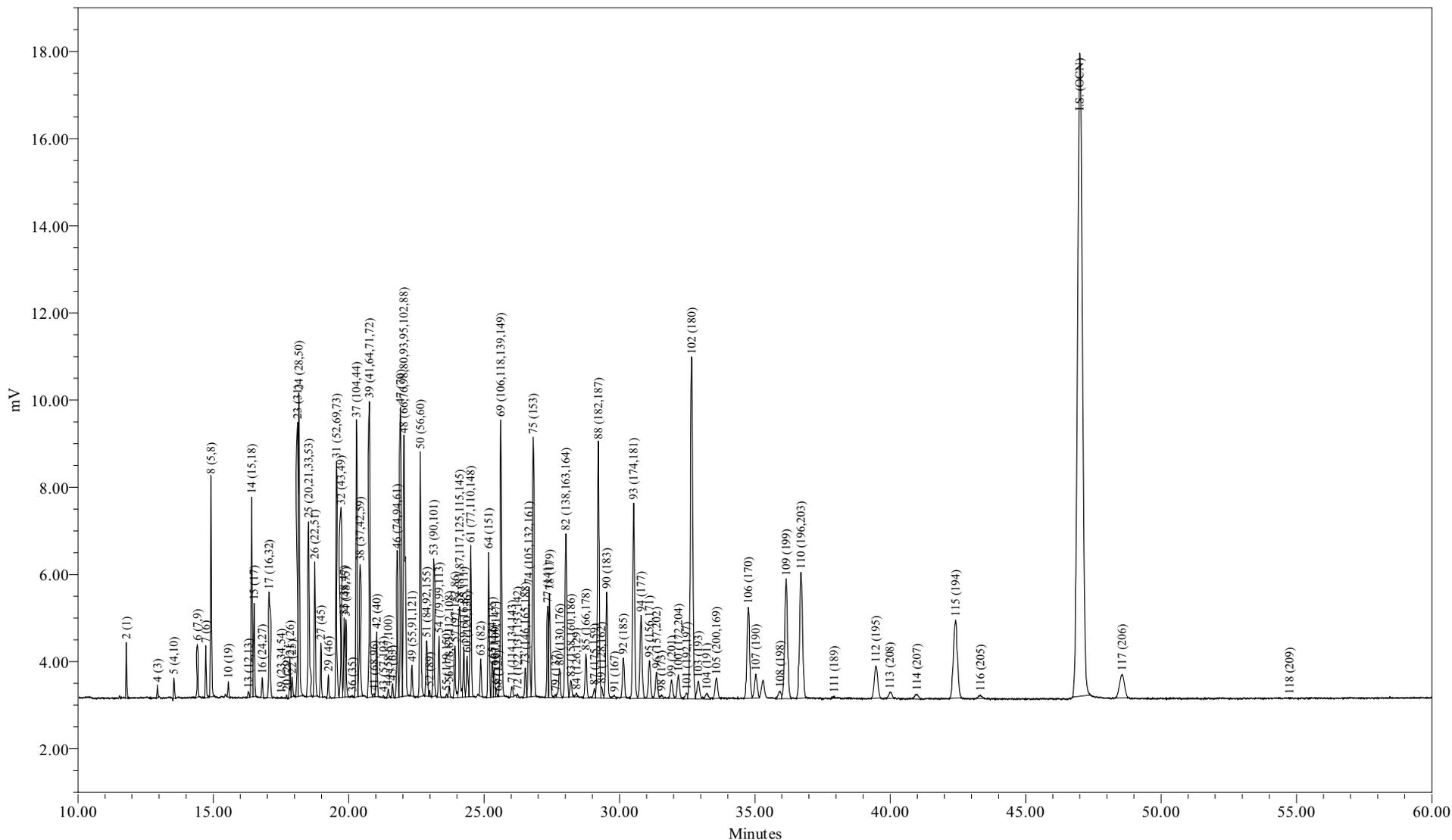
DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: CCCS0924B  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 9/24/2009 2:38:19 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_082309  
LIMS File ID: GC16-800-7

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 14:38:19  
 Lab Sample ID: CCCS0924B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-800-7

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 124 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	9.76	14.61
Di	12.83	16.17
Tri	18.36	20.13
Tetra	21.81	21.17
Penta	8.09	6.96
Hexa	7.82	6.17
Hepta	13.49	9.66
Octa	7.23	4.76
Nona	0.61	0.37
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Biota
A1221	2/001	8.1018	36.8	29.9
A1242	23+24/31+28	6.5626	29.8	24.2
A1254SED	61/100	1.6001	7.27	
A1254BIO	69+75+82/149+153+138	6.7018		24.7
A1260	102/180	4.4900	20.4	16.6
A1268	115/194	1.2473	5.67	4.60

Ortho Cl / biphenyl Residue = 1.59

Meta + Para Cl / biphenyl Residue = 2.13

Total Cl / biphenyl Residue = 3.73

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 14:38:19  
 Lab Sample ID: CCCS0924B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-800-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2379	8.10	42.9			
3	12.83	188.7		-	-			
4	12.94	188.7	624	4.04	21.4			
5	13.54	223.1	1286	2.05	9.21			
6	14.41	223.1	3569	0.757	3.39			
7	14.72	223.1	2921	1.27	5.70			
8	14.91	223.1	13203	11.0	49.1			
9	15.48	223.1		-	-			
10	15.55	257.5	910	0.244	0.948			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.30	223.1	435	0.150	0.673			
14	16.42	249.0	12334	3.15	12.6			
15	16.50	257.5	5856	3.08	12.0			
16	16.81	257.5	1256	0.219	0.851			
17	17.06	257.5	10781	3.26	12.7			
19	17.51	267.9	63	0.0155	0.0578			
20	17.71	257.5	177	0.0254	0.0986			
21	17.83	257.5	2496	0.563	2.18			
22	17.91	257.5	1286	0.192	0.744			
23	18.11	257.5	16587	3.10	12.1			
24	18.16	257.5	20344	3.46	13.4			
25	18.52	259.5	14294	3.11	12.0			
26	18.75	258.7	9217	2.18	8.44			
27	18.97	292.0	3532	0.680	2.33			
28	19.12	257.5		-	-			
29	19.25	292.0	1480	0.309	1.06			
30	19.39	257.5		-	-			
31	19.55	292.0	15847	4.26	14.6			
32	19.72	292.0	12722	1.75	6.00			
33	19.83	292.0	5138	0.505	1.73			
34	19.90	292.0	5230	0.697	2.39			
35	20.04	292.0		-	-			
36	20.14	257.5	55	0.0191	0.0742			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	19064	3.37	11.5			
38	20.42	272.4	10378	2.22	8.14			
39	20.77	292.0	21329	2.94	10.1			
41	20.94	326.4	255	0.0560	0.172			
42	21.03	292.0	4397	0.715	2.45			
43	21.28	298.9	119	0.0192	0.0642			
44	21.47	298.9	591	0.0749	0.251			
45	21.62	292.0	980	0.115	0.392			
46	21.79	292.0	10582	1.03	3.53			
47	21.92	292.0	20932	2.50	8.55			
48	22.04	293.5	28127	5.01	17.1			
49	22.34	324.7	2263	0.326	1.00			
50	22.65	292.0	18379	2.20	7.54			
51	22.88	326.4	5056	1.51	4.63			
52	22.99	326.4	371	0.0492	0.151			
53	23.14	326.4	9793	1.37	4.19			
54	23.34	326.4	4512	0.401	1.23			
55	23.61	326.4	209	0.0106	0.0326			
56	23.71	326.4	793	0.112	0.343			
57	23.92	326.4	4115	0.411	1.26			
58	24.10	326.4	7194	0.920	2.82			
59	24.25	326.4	3712	0.382	1.17			
60	24.37	360.9	3485	0.442	1.22			
61	24.50	326.4	11447	1.60	4.90			
62	24.79	360.9		-	-			
63	24.88	326.4	2740	0.280	0.859			
64	25.17	360.9	10263	1.29	3.56			
65	25.30	350.5	2634	0.197	0.563			
66	25.37	360.9	2142	0.413	1.14			
67	25.43	336.8	583	0.0758	0.225			
68	25.53	326.4	79	0.00997	0.0305			
69	25.62	337.5	24872	2.80	8.31			
70	25.74	360.9		-	-			
71	26.03	347.8	1031	0.100	0.288			
72	26.23	336.8	231	0.0110	0.0326			
73	26.52	360.9	2371	0.235	0.653			
74	26.66	347.8	10199	0.899	2.59			
75	26.81	360.9	22294	2.04	5.66			
76	26.93	360.9		-	-			
77	27.35	360.9	7849	1.14	3.17			
78	27.42	395.3	9207	1.09	2.75			
79	27.64	360.9	198	0.0227	0.0630			
80	27.79	360.9	2984	0.159	0.442			
82	28.02	360.9	18464	1.85	5.14			
83	28.20	360.9	1878	0.146	0.405			
84	28.41	360.9	382	0.00532	0.0147			
85	28.76	395.3	4442	0.794	2.01			
87	29.07	395.3	921	0.133	0.338			
88	29.22	395.3	27068	2.76	6.98			
89	29.33	360.9	1078	0.0652	0.181			
90	29.53	395.3	11540	1.22	3.09			
91	29.81	360.9	494	0.0269	0.0745			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.14	394.3	4388	0.316	0.802			
93	30.52	394.3	22795	2.40	6.09			
94	30.80	394.3	10235	1.22	3.09			
95	31.11	382.2	4806	0.534	1.40			
96	31.37	429.8	3361	0.0533	0.124			
98	31.55	395.3	413	0.0309	0.0783			
99	31.93	429.8	2438	0.290	0.674			
100	32.18	395.3	3341	0.407	1.03			
101	32.48	429.8	748	0.0906	0.211			
102	32.67	395.3	48719	4.49	11.4			
103	32.91	395.3	2914	0.325	0.823			
104	33.23	395.3	964	0.103	0.261			
105	33.58	429.8	3011	0.324	0.754			
106	34.76	395.3	14287	0.870	2.20			
107	35.04	395.3	3848	0.279	0.705			
108	35.93	429.8	1274	0.0946	0.220			
109	36.15	429.8	20540	3.25	7.55			
110	36.71	429.8	22156	3.21	7.47			
111	37.93	395.3	278	0.0191	0.0484			
112	39.47	429.8	6644	0.366	0.851			
113	39.98	464.2	1211	0.184	0.396			
114	40.99	464.2	1036	0.0777	0.167			
115	42.42	429.8	18520	1.25	2.90			
116	43.33	429.8	717	0.0782	0.182			
117	48.56	464.2	6961	0.497	1.07			
118	54.75	498.6	29	0.00268	0.00538			

Total Concentration = 124 ng/mL

Total Nanomoles = 0.440

Average Molecular Weight = 282.6

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 186927.3

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 14:38:19  
 Lab Sample ID: CCCS0924B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-800-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	6.510	9.750
3	12.83	1:0	002		3	-	-
4	12.94	1:0	003	0.2753	4	3.246	4.861
5	13.54	2:2	004 010	0.2881	2-2; 26	1.650	2.091
6	14.41	2:1	007 009	0.3066	24; 25	0.608	0.771
7	14.72	2:1	006	0.3132	2-3	1.022	1.294
8	14.91	2:1	005 008	0.3172	23; 2-4	8.801	11.148
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	0.196	0.215
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.30	2:0	012 013	0.3468	34; 3-4	0.121	0.153
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	2.531	2.872
15	16.50	3:2	017	0.3511	24-2	2.476	2.717
16	16.81	3:2	024 027	0.3577	236; 26-3	0.176	0.193
17	17.06	3:2	016 032	0.3630	23-2; 26-4	2.621	2.876
19	17.51	3:1 4:4	023 034 054	0.3726	235; 35-2; 26-26	0.012	0.013
20	17.71	3:1	029	0.3768	245	0.020	0.022
21	17.83	3:1	026	0.3794	25-3	0.452	0.496
22	17.91	3:1	025	0.3811	24-3	0.154	0.169
23	18.11	3:1	031	0.3853	25-4	2.494	2.737
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	2.779	3.050
25	18.52	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.497	2.719
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	1.754	1.917
27	18.97	4:3	045	0.4036	236-2	0.546	0.529
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4096	23-26	0.248	0.240
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.420	3.310
32	19.72	4:2	043 049	0.4196	235-2; 24-25	1.407	1.362
33	19.83	4:2	038 047	0.4219	345; 24-24	0.405	0.392
34	19.90	4:2	048 075	0.4234	245-2; 246-4	0.560	0.542
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.14	3:0	035	0.4285	34-3	0.015	0.017
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	2.705	2.618
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.781	1.847

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.77	4:2	<b>041 064 071 072</b>	0.4419	234-2; 236-4; 26-34; 25-35	2.362	2.286
41	20.94	5:4	<b>068 096</b>	0.4455	24-35; 236-26	0.045	0.039
42	21.03	4:2	<b>040</b>	0.4474	23-23	0.575	0.556
43	21.28	4:1 5:3	<b>057 103</b>	0.4528	235-3; 246-25	0.015	0.015
44	21.47	4:1 5:3	<b>058 067 100</b>	0.4568	23-35; 245-3; 246-24	0.060	0.057
45	21.62	4:1	<b>063</b>	0.4600	235-4	0.092	0.089
46	21.79	4:1 5:3	<b>074 094 061</b>	0.4636	245-4; 235-26; 2345	0.827	0.800
47	21.92	4:1	<b>070</b>	0.4664	25-34	2.007	1.943
48	22.04	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.028	3.878
49	22.34	4:1 5:3	<b>055 091 121</b>	0.4753	234-3; 236-24; 246-35	0.262	0.228
50	22.65	4:1	<b>056 060</b>	0.4819	23-34; 234-4	1.768	1.711
51	22.88	5:3 6:4	<b>084 092 155</b>	0.4868	236-23; 235-25; 246-246	1.215	1.052
52	22.99	5:3	<b>089</b>	0.4891	234-26	0.040	0.034
53	23.14	5:2	<b>090 101</b>	0.4923	235-24; 245-25	1.100	0.953
54	23.34	5:2	<b>079 099 113</b>	0.4966	34-35; 245-24; 236-35	0.322	0.279
55	23.61	5:2 6:4	<b>119 150</b>	0.5023	246-34; 236-246	0.009	0.007
56	23.71	5:2	<b>078 083 112 108</b>	0.5045	345-3; 235-23; 2356-3; 2346-3	0.090	0.078
57	23.92	5:2 6:4	<b>098 152 086</b>	0.5089	245-23; 2356-26; 2345-2	0.330	0.286
58	24.10	5:2	<b>081 087 117 125 115 145</b>	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.739	0.640
59	24.25	5:2	<b>116 085 111</b>	0.5160	23456; 234-24; 235-35	0.307	0.266
60	24.37	6:4	<b>120 136</b>	0.5185	245-35; 236-236	0.355	0.278
61	24.50	5:2	<b>077 110 148</b>	0.5213	34-34; 236-34; 235-246	1.286	1.113
62	24.79	6:3	<b>154</b>		245-246	-	-
63	24.88	5:2	<b>082</b>	0.5294	234-23	0.225	0.195
64	25.17	6:3	<b>151</b>	0.5355	2356-25	1.033	0.809
65	25.30	5:1 6:3	<b>124 135</b>	0.5383	345-25; 235-236	0.159	0.128
66	25.37	6:3	<b>144</b>	0.5398	2346-25	0.332	0.260
67	25.43	5:1 6:3	<b>107 109 147</b>	0.5411	234-35; 235-34; 2356-24	0.061	0.051
68	25.53	5:1	<b>123</b>	0.5432	345-24	0.008	0.007
69	25.62	5:1 6:3	<b>106 118 139 149</b>	0.5451	2345-3; 245-34; 2346-24; 236-245	2.252	1.886
70	25.74	6:3	<b>140</b>		234-246	-	-
71	26.03	5:1 6:3	<b>114 134 143</b>	0.5538	2345-4; 2356-23; 2345-26	0.080	0.065
72	26.23	5:1 6:3	<b>122 131 133 142</b>	0.5581	345-23; 2346-23; 235-235; 23456-2	0.009	0.007
73	26.52	6:2	<b>146 165 188</b>	0.5643	235-245; 2356-35; 2356-246	0.189	0.148
74	26.66	5:1 6:3	<b>105 132 161</b>	0.5672	234-34; 234-236; 2346-35	0.723	0.587
75	26.81	6:2	<b>153</b>	0.5704	245-245	1.642	1.286
76	26.93	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	<b>141</b>	0.5819	2345-25	0.920	0.720
78	27.42	7:4	<b>179</b>	0.5834	2356-236	0.873	0.624
79	27.64	6:2	<b>137</b>	0.5881	2345-24	0.018	0.014
80	27.79	6:2 7:4	<b>130 176</b>	0.5913	234-235; 2346-236	0.128	0.100
82	28.02	6:2	<b>138 163 164</b>	0.5962	234-245; 2356-34; 236-345	1.490	1.167
83	28.20	6:2	<b>158 160 186</b>	0.6000	2346-34; 23456-3; 23456-26	0.117	0.092
84	28.41	6:2	<b>126 129</b>	0.6045	345-34; 2345-23	0.004	0.003
85	28.76	7:3	<b>166 178</b>	0.6119	23456-4; 2356-235	0.638	0.456
87	29.07	7:3	<b>175 159</b>	0.6185	2346-235; 2345-35	0.107	0.077
88	29.22	7:3	<b>182 187</b>	0.6217	2345-246; 2356-245	2.217	1.585
89	29.33	6:2	<b>128 162</b>	0.6240	234-234; 235-345	0.052	0.041
90	29.53	7:3	<b>183</b>	0.6283	2346-245	0.980	0.701
91	29.81	6:1	<b>167</b>	0.6343	245-345	0.022	0.017
92	30.14	7:3	<b>185</b>	0.6413	23456-25	0.254	0.182
93	30.52	7:3	<b>174 181</b>	0.6494	2345-236; 23456-24	1.930	1.383
94	30.80	7:3	<b>177</b>	0.6553	2356-234	0.980	0.703
95	31.11	6:1 7:3	<b>156 171</b>	0.6619	2345-34; 2346-234	0.429	0.317
96	31.37	8:4	<b>157 202</b>	0.6674	234-345; 2356-2356	0.043	0.028
98	31.55	7:3	<b>173</b>	0.6713	23456-23	0.025	0.018
99	31.93	8:4	<b>201</b>	0.6794	2346-2356	0.233	0.153
100	32.18	7:2	<b>172 204</b>	0.6847	2345-235; 23456-246	0.327	0.234
101	32.48	8:4	<b>192 197</b>	0.6911	23456-35; 2346-2346	0.073	0.048
102	32.67	7:2	<b>180</b>	0.6951	2345-245	3.608	2.579
103	32.91	7:2	<b>193</b>	0.7002	2356-345	0.261	0.187
104	33.23	7:2	<b>191</b>	0.7070	2346-345	0.083	0.059

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.58	8:4	<b>200</b> 169	0.7145	23456-236; 345-345	0.260	0.171
106	34.76	7:2	<b>170</b>	0.7396	2345-234	0.699	0.500
107	35.04	7:2	<b>190</b>	0.7455	23456-34	0.224	0.160
108	35.93	8:3	<b>198</b>	0.7645	23456-235	0.076	0.050
109	36.15	8:3	<b>199</b>	0.7691	2345-2356	2.608	1.715
110	36.71	8:3	<b>196</b> <b>203</b>	0.7811	2345-2346; 23456-245	2.580	1.697
111	37.93	7:1	<b>189</b>	0.8070	2345-345	0.015	0.011
112	39.47	8:3	<b>195</b>	0.8398	23456-234	0.294	0.193
113	39.98	9:4	<b>208</b>	0.8506	23456-2356	0.148	0.090
114	40.99	9:4	<b>207</b>	0.8721	23456-2346	0.062	0.038
115	42.42	8:2	<b>194</b>	0.9026	2345-2345	1.002	0.659
116	43.33	8:2	<b>205</b>	0.9219	23456-345	0.063	0.041
117	48.56	9:3	<b>206</b>	1.033	23456-2345	0.399	0.243
118	54.75	10:4	<b>209</b>	1.165	23456-23456	0.002	0.001

Concentration = 124 ng/mL

Total Nanomoles = 0.440

Average Molecular Weight = 282.6

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Sample Name: CCCS0922D Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/23/2009 08:17:00 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 09/23/2009 23:04:44  
Sample Set Name: GC16\_092209c User Name: Keith Friedman  
Processing Method: CSGB\_LL1X\_082309 Current Time: 06:12:35  
Run Time: 60 Minutes Current Date: 09/25/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-798-19

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2177	8.413	8.413
2	4 (3)	12.94	834	6.146	6.146
3	5 (4,10)	13.54	1271	2.303	2.303
4	6 (7,9)	14.41	3331	0.801	0.801
5	7 (6)	14.72	2625	1.297	1.297
6	8 (5,8)	14.91	12310	11.586	11.586
7	10 (19)	15.55	784	0.239	0.239
8	13 (12,13)	16.29	682	0.265	0.265
9	14 (15,18)	16.42	11637	3.372	3.372
10	15 (17)	16.50	5503	3.284	3.284
11	16 (24,27)	16.80	1175	0.233	0.233
12	17 (16,32)	17.06	9800	3.364	3.364
13	19 (23,34,54)	17.52	86	0.024	0.024
14	20 (29)	17.71	233	0.038	0.038
15	21 (26)	17.83	2432	0.621	0.621
16	22 (25)	17.91	1233	0.209	0.209
17	23 (31)	18.11	15061	3.199	3.199
18	24 (28,50)	18.16	19170	3.699	3.699
19	25 (20,21,33,53)	18.52	13128	3.239	3.239
20	26 (22,51)	18.75	8661	2.328	2.328
21	27 (45)	18.97	3265	0.713	0.713
22	29 (46)	19.25	1264	0.299	0.299
23	31 (52,69,73)	19.55	14725	4.487	4.487
24	32 (43,49)	19.72	11799	1.843	1.843
25	33 (38,47)	19.83	4710	0.525	0.525
26	34 (48,75)	19.89	4730	0.715	0.715
27	36 (35)	20.14	58	0.023	0.023
28	37 (104,44)	20.29	17542	3.516	3.516
29	38 (37,42,59)	20.42	9362	2.268	2.268
30	39 (41,64,71,72)	20.77	19509	3.051	3.051
31	41 (68,96)	20.94	196	0.049	0.049
32	42 (40)	21.03	3967	0.732	0.732
33	43 (57,103)	21.26	189	0.034	0.034

34	44 (58,67,100)	21.46	628	0.090	0.090
35	45 (63)	21.62	827	0.110	0.110
36	46 (74,94,61)	21.79	9735	1.074	1.074
37	47 (70)	21.92	19367	2.623	2.623
38	48 (66,76,98,80,93,95,	22.04	25802	5.219	5.219
39	49 (55,91,121)	22.34	2212	0.361	0.361
40	50 (56,60)	22.64	17129	2.328	2.328
41	51 (84,92,155)	22.88	4588	1.557	1.557
42	52 (89)	22.98	355	0.053	0.053
43	53 (90,101)	23.14	8956	1.420	1.420
44	54 (79,99,113)	23.33	4116	0.415	0.415
45	55 (119,150)	23.63	352	0.020	0.020
46	56 (78,83,112,108)	23.70	750	0.120	0.120
47	57 (97,152,86)	23.92	3665	0.415	0.415
48	58 (81,87,117,125,115	24.10	6346	0.921	0.921
49	59 (116,85,111)	24.25	3286	0.383	0.383
50	60 (120,136)	24.37	3036	0.437	0.437
51	61 (77,110,148)	24.50	10384	1.646	1.646
52	63 (82)	24.87	2577	0.299	0.299
53	64 (151)	25.17	9479	1.347	1.347
54	65 (124,135)	25.30	2504	0.213	0.213
55	66 (144)	25.37	2226	0.487	0.487
56	67 (107,109,147)	25.43	482	0.071	0.071
57	68 (123)	25.53	117	0.017	0.017
58	69 (106,118,139,149)	25.61	22649	2.897	2.897
59	71 (114,134,143)	26.03	1160	0.128	0.128
60	72 (122,131,133,142)	26.21	422	0.023	0.023
61	73 (146,165,188)	26.52	2225	0.251	0.251
62	74 (105,132,161)	26.65	9181	0.918	0.918
63	75 (153)	26.81	20431	2.125	2.125
64	77 (141)	27.35	6987	1.156	1.156
65	78 (179)	27.42	8196	1.097	1.097
66	79 (137)	27.64	191	0.025	0.025
67	80 (130,176)	27.79	2630	0.159	0.159
68	82 (138,163,164)	28.02	16851	1.921	1.921
69	83 (158,160,186)	28.20	2076	0.184	0.184
70	84 (126,129)	28.41	317	0.005	0.005
71	85 (166,178)	28.76	3932	0.798	0.798
72	87 (175,159)	29.06	591	0.097	0.097
73	88 (182,187)	29.21	24322	2.813	2.813
74	89 (128,162)	29.34	775	0.053	0.053
75	90 (183)	29.53	10133	1.215	1.215
76	91 (167)	29.80	216	0.014	0.014
77	92 (185)	30.14	3979	0.325	0.325
78	93 (174,181)	30.52	20015	2.392	2.392
79	94 (177)	30.80	8772	1.186	1.186
80	95 (156,171)	31.10	4014	0.506	0.506
81	96 (157,202)	31.37	2683	0.048	0.048
82	98 (173)	31.53	202	0.017	0.017
83	99 (201)	31.91	1942	0.262	0.262
84	100 (172,204)	32.17	2803	0.387	0.387

85	101 (192,197)	32.48	512	0.070	0.070
86	102 (180)	32.66	43569	4.556	4.556
87	103 (193)	32.90	2076	0.263	0.263
88	104 (191)	33.23	494	0.060	0.060
89	105 (200,169)	33.57	2396	0.292	0.292
90	106 (170)	34.75	12489	0.863	0.863
91	107 (190)	35.03	2834	0.233	0.233
92	108 (198)	35.92	944	0.079	0.079
93	109 (199)	36.15	17937	3.216	3.216
94	110 (196,203)	36.69	19605	3.224	3.224
95	111 (189)	37.92	368	0.029	0.029
96	112 (195)	39.47	5790	0.362	0.362
97	113 (208)	39.99	1326	0.229	0.229
98	114 (207)	40.99	857	0.073	0.073
99	115 (194)	42.39	16499	1.261	1.261
100	116 (205)	43.32	629	0.078	0.078
101	117 (206)	48.56	6116	0.496	0.496
102	118 (209)	54.74	49	0.005	0.005
103	Sum			130.932	130.932



Sample Name: CCCS0923A Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/23/2009 21:46:16 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 09/23/2009 23:03:38  
Sample Set Name: GC16\_092309a User Name: Kari Lantiegne  
Processing Method: CSGB\_LL1X\_082309 Current Time: 06:12:35  
Run Time: 60 Minutes Current Date: 09/25/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-799-9

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2274	7.883	7.883
2	4 (3)	12.94	773	5.104	5.104
3	5 (4,10)	13.54	1409	2.291	2.291
4	6 (7,9)	14.41	3586	0.774	0.774
5	7 (6)	14.72	2829	1.253	1.253
6	8 (5,8)	14.91	13140	11.097	11.097
7	10 (19)	15.56	903	0.247	0.247
8	13 (12,13)	16.29	501	0.175	0.175
9	14 (15,18)	16.42	12299	3.197	3.197
10	15 (17)	16.50	5801	3.107	3.107
11	16 (24,27)	16.80	1209	0.215	0.215
12	17 (16,32)	17.06	10560	3.252	3.252
13	19 (23,34,54)	17.54	121	0.030	0.030
14	20 (29)	17.70	129	0.019	0.019
15	21 (26)	17.83	2428	0.557	0.557
16	22 (25)	17.91	1324	0.201	0.201
17	23 (31)	18.11	16657	3.174	3.174
18	24 (28,50)	18.16	20183	3.493	3.493
19	25 (20,21,33,53)	18.52	14111	3.123	3.123
20	26 (22,51)	18.75	9185	2.215	2.215
21	27 (45)	18.97	3306	0.648	0.648
22	29 (46)	19.25	1292	0.274	0.274
23	31 (52,69,73)	19.55	15722	4.299	4.299
24	32 (43,49)	19.72	12578	1.763	1.763
25	33 (38,47)	19.83	5097	0.510	0.510
26	34 (48,75)	19.90	5082	0.689	0.689
27	36 (35)	20.11	55	0.019	0.019
28	37 (104,44)	20.29	18797	3.380	3.380
29	38 (37,42,59)	20.42	10202	2.218	2.218
30	39 (41,64,71,72)	20.77	21065	2.956	2.956
31	41 (68,96)	20.93	192	0.043	0.043
32	42 (40)	21.03	4301	0.712	0.712
33	43 (57,103)	21.28	127	0.021	0.021

34	44 (58,67,100)	21.46	567	0.073	0.073
35	45 (63)	21.62	969	0.115	0.115
36	46 (74,94,61)	21.79	10319	1.022	1.022
37	47 (70)	21.92	20488	2.489	2.489
38	48 (66,76,98,80,93,95,	22.04	27447	4.980	4.980
39	49 (55,91,121)	22.33	2167	0.318	0.318
40	50 (56,60)	22.64	18135	2.211	2.211
41	51 (84,92,155)	22.88	4987	1.518	1.518
42	52 (89)	22.99	458	0.062	0.062
43	53 (90,101)	23.14	9905	1.410	1.410
44	54 (79,99,113)	23.34	4357	0.394	0.394
45	55 (119,150)	23.62	246	0.013	0.013
46	56 (78,83,112,108)	23.71	822	0.118	0.118
47	57 (97,152,86)	23.92	3770	0.383	0.383
48	58 (81,87,117,125,115	24.10	6697	0.872	0.872
49	59 (116,85,111)	24.25	3628	0.380	0.380
50	60 (120,136)	24.37	3242	0.418	0.418
51	61 (77,110,148)	24.50	11261	1.602	1.602
52	63 (82)	24.87	2816	0.293	0.293
53	64 (151)	25.17	10086	1.286	1.286
54	65 (124,135)	25.31	2694	0.206	0.206
55	66 (144)	25.37	2088	0.410	0.410
56	67 (107,109,147)	25.44	483	0.064	0.064
57	68 (123)	25.54	126	0.016	0.016
58	69 (106,118,139,149)	25.62	24508	2.812	2.812
59	71 (114,134,143)	26.03	948	0.094	0.094
60	72 (122,131,133,142)	26.24	63	0.003	0.003
61	73 (146,165,188)	26.53	2220	0.224	0.224
62	74 (105,132,161)	26.66	9929	0.891	0.891
63	75 (153)	26.81	21852	2.039	2.039
64	77 (141)	27.35	7594	1.127	1.127
65	78 (179)	27.42	8718	1.047	1.047
66	79 (137)	27.66	97	0.011	0.011
67	80 (130,176)	27.79	2747	0.149	0.149
68	82 (138,163,164)	28.02	17886	1.829	1.829
69	83 (158,160,186)	28.21	1449	0.114	0.114
70	84 (126,129)	28.41	238	0.003	0.003
71	85 (166,178)	28.76	4226	0.769	0.769
72	87 (175,159)	29.07	804	0.119	0.119
73	88 (182,187)	29.21	26456	2.745	2.745
74	89 (128,162)	29.34	844	0.052	0.052
75	90 (183)	29.53	10961	1.180	1.180
76	91 (167)	29.81	358	0.020	0.020
77	92 (185)	30.15	4401	0.323	0.323
78	93 (174,181)	30.52	21794	2.337	2.337
79	94 (177)	30.79	9484	1.151	1.151
80	95 (156,171)	31.10	4307	0.487	0.487
81	96 (157,202)	31.37	3216	0.052	0.052
82	98 (173)	31.54	272	0.020	0.020
83	99 (201)	31.92	2316	0.280	0.280
84	100 (172,204)	32.17	3013	0.373	0.373

85	101 (192,197)	32.47	633	0.078	0.078
86	102 (180)	32.66	47503	4.456	4.456
87	103 (193)	32.92	2453	0.279	0.279
88	104 (191)	33.23	391	0.043	0.043
89	105 (200,169)	33.58	2652	0.290	0.290
90	106 (170)	34.75	13961	0.865	0.865
91	107 (190)	35.04	3773	0.278	0.278
92	108 (198)	35.92	1061	0.080	0.080
93	109 (199)	36.15	19745	3.176	3.176
94	110 (196,203)	36.70	21205	3.128	3.128
95	111 (189)	37.93	282	0.020	0.020
96	112 (195)	39.47	6566	0.368	0.368
97	113 (208)	39.98	1290	0.200	0.200
98	114 (207)	40.97	680	0.052	0.052
99	115 (194)	42.41	18502	1.269	1.269
100	116 (205)	43.28	752	0.083	0.083
101	117 (206)	48.56	6907	0.502	0.502
102	118 (209)	54.75	31	0.003	0.003
103	Sum			125.016	125.016



Sample Name: CCCS0923B Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/24/2009 01:08:47 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 09/24/2009 06:34:15  
Sample Set Name: GC16\_092309a User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_082309 Current Time: 06:12:36  
Run Time: 60 Minutes Current Date: 09/25/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-799-12

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2324	7.892	7.892
2	4 (3)	12.93	639	4.123	4.123
3	5 (4,10)	13.54	1526	2.431	2.431
4	6 (7,9)	14.41	3628	0.768	0.768
5	7 (6)	14.72	2757	1.195	1.195
6	8 (5,8)	14.91	13089	10.828	10.828
7	10 (19)	15.55	870	0.233	0.233
8	13 (12,13)	16.30	394	0.136	0.136
9	14 (15,18)	16.42	12436	3.167	3.167
10	15 (17)	16.51	5844	3.066	3.066
11	16 (24,27)	16.81	1247	0.217	0.217
12	17 (16,32)	17.06	10670	3.218	3.218
13	19 (23,34,54)	17.50	96	0.023	0.023
14	20 (29)	17.70	238	0.034	0.034
15	21 (26)	17.83	2508	0.564	0.564
16	22 (25)	17.91	1398	0.208	0.208
17	23 (31)	18.11	16139	3.011	3.011
18	24 (28,50)	18.16	20939	3.550	3.550
19	25 (20,21,33,53)	18.52	14200	3.078	3.078
20	26 (22,51)	18.75	9186	2.170	2.170
21	27 (45)	18.97	3443	0.661	0.661
22	29 (46)	19.25	1386	0.288	0.288
23	31 (52,69,73)	19.55	15928	4.266	4.266
24	32 (43,49)	19.72	12850	1.764	1.764
25	33 (38,47)	19.83	5275	0.517	0.517
26	34 (48,75)	19.89	5484	0.729	0.729
27	36 (35)	20.14	116	0.040	0.040
28	37 (104,44)	20.29	18904	3.329	3.329
29	38 (37,42,59)	20.42	10339	2.202	2.202
30	39 (41,64,71,72)	20.77	21176	2.910	2.910
31	41 (68,96)	20.93	284	0.062	0.062
32	42 (40)	21.03	4496	0.729	0.729
33	43 (57,103)	21.29	314	0.050	0.050

34	44 (58,67,100)	21.45	690	0.087	0.087
35	45 (63)	21.61	1006	0.117	0.117
36	46 (74,94,61)	21.79	10508	1.019	1.019
37	47 (70)	21.92	20789	2.474	2.474
38	48 (66,76,98,80,93,95,	22.04	28279	5.026	5.026
39	49 (55,91,121)	22.34	2566	0.368	0.368
40	50 (56,60)	22.64	18611	2.222	2.222
41	51 (84,92,155)	22.88	5374	1.602	1.602
42	52 (89)	22.99	543	0.072	0.072
43	53 (90,101)	23.14	9970	1.390	1.390
44	54 (79,99,113)	23.34	4542	0.403	0.403
45	55 (119,150)	23.61	308	0.016	0.016
46	56 (78,83,112,108)	23.71	839	0.118	0.118
47	57 (97,152,86)	23.92	4026	0.401	0.401
48	58 (81,87,117,125,115	24.10	7068	0.901	0.901
49	59 (116,85,111)	24.25	3720	0.381	0.381
50	60 (120,136)	24.37	3430	0.434	0.434
51	61 (77,110,148)	24.50	11440	1.595	1.595
52	63 (82)	24.88	2759	0.281	0.281
53	64 (151)	25.17	10144	1.267	1.267
54	65 (124,135)	25.31	2669	0.199	0.199
55	66 (144)	25.37	2139	0.411	0.411
56	67 (107,109,147)	25.43	556	0.072	0.072
57	68 (123)	25.53	119	0.015	0.015
58	69 (106,118,139,149)	25.62	24995	2.809	2.809
59	71 (114,134,143)	26.02	1185	0.115	0.115
60	72 (122,131,133,142)	26.22	347	0.016	0.016
61	73 (146,165,188)	26.53	2329	0.231	0.231
62	74 (105,132,161)	26.66	10181	0.895	0.895
63	75 (153)	26.81	22459	2.053	2.053
64	77 (141)	27.36	7915	1.151	1.151
65	78 (179)	27.42	9156	1.078	1.078
66	79 (137)	27.64	253	0.029	0.029
67	80 (130,176)	27.79	3083	0.164	0.164
68	82 (138,163,164)	28.02	18593	1.863	1.863
69	83 (158,160,186)	28.20	2028	0.158	0.158
70	84 (126,129)	28.40	403	0.006	0.006
71	85 (166,178)	28.76	4235	0.755	0.755
72	87 (175,159)	29.07	707	0.103	0.103
73	88 (182,187)	29.22	26841	2.728	2.728
74	89 (128,162)	29.34	884	0.053	0.053
75	90 (183)	29.53	11076	1.168	1.168
76	91 (167)	29.81	197	0.011	0.011
77	92 (185)	30.15	4655	0.335	0.335
78	93 (174,181)	30.52	22592	2.373	2.373
79	94 (177)	30.80	10120	1.203	1.203
80	95 (156,171)	31.10	4815	0.533	0.533
81	96 (157,202)	31.36	3260	0.052	0.052
82	98 (173)	31.56	341	0.025	0.025
83	99 (201)	31.92	2528	0.300	0.300
84	100 (172,204)	32.18	3319	0.403	0.403

85	101 (192,197)	32.46	613	0.074	0.074
86	102 (180)	32.66	48504	4.457	4.457
87	103 (193)	32.90	2473	0.275	0.275
88	104 (191)	33.22	708	0.076	0.076
89	105 (200,169)	33.58	2906	0.312	0.312
90	106 (170)	34.75	14363	0.872	0.872
91	107 (190)	35.04	3925	0.283	0.283
92	108 (198)	35.92	1088	0.080	0.080
93	109 (199)	36.16	20234	3.188	3.188
94	110 (196,203)	36.71	21864	3.160	3.160
95	111 (189)	37.87	265	0.018	0.018
96	112 (195)	39.47	6952	0.382	0.382
97	113 (208)	40.02	1229	0.186	0.186
98	114 (207)	40.98	965	0.072	0.072
99	115 (194)	42.40	18252	1.225	1.225
100	116 (205)	43.32	812	0.088	0.088
101	117 (206)	48.57	6970	0.496	0.496
102	118 (209)	54.74	24	0.002	0.002
103	Sum			124.189	124.189



Sample Name: CCCS0924A Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/24/2009 12:23:19 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 09/24/2009 13:27:40  
Sample Set Name: GC16\_092409C User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_082309 Current Time: 06:12:36  
Run Time: 60 Minutes Current Date: 09/25/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-800-5

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2365	7.949	7.949
2	4 (3)	12.94	763	4.886	4.886
3	5 (4,10)	13.54	1436	2.265	2.265
4	6 (7,9)	14.41	3520	0.737	0.737
5	7 (6)	14.72	2802	1.203	1.203
6	8 (5,8)	14.91	13130	10.752	10.752
7	10 (19)	15.55	854	0.226	0.226
8	13 (12,13)	16.30	974	0.328	0.328
9	14 (15,18)	16.42	12556	3.165	3.165
10	15 (17)	16.51	5901	3.065	3.065
11	16 (24,27)	16.80	1203	0.207	0.207
12	17 (16,32)	17.06	10779	3.219	3.219
13	19 (23,34,54)	17.53	71	0.017	0.017
14	20 (29)	17.70	213	0.030	0.030
15	21 (26)	17.83	2571	0.572	0.572
16	22 (25)	17.91	1464	0.215	0.215
17	23 (31)	18.11	16752	3.095	3.095
18	24 (28,50)	18.16	21467	3.603	3.603
19	25 (20,21,33,53)	18.52	14552	3.123	3.123
20	26 (22,51)	18.75	9348	2.186	2.186
21	27 (45)	18.97	3592	0.682	0.682
22	29 (46)	19.25	1490	0.307	0.307
23	31 (52,69,73)	19.55	16106	4.270	4.270
24	32 (43,49)	19.72	13030	1.771	1.771
25	33 (38,47)	19.83	5268	0.511	0.511
26	34 (48,75)	19.90	5508	0.725	0.725
27	36 (35)	20.12	159	0.054	0.054
28	37 (104,44)	20.29	19248	3.356	3.356
29	38 (37,42,59)	20.42	10514	2.216	2.216
30	39 (41,64,71,72)	20.77	21705	2.953	2.953
31	41 (68,96)	20.94	617	0.133	0.133
32	42 (40)	21.03	4544	0.730	0.730
33	43 (57,103)	21.28	169	0.027	0.027

34	44 (58,67,100)	21.46	587	0.073	0.073
35	45 (63)	21.61	1022	0.118	0.118
36	46 (74,94,61)	21.79	10817	1.039	1.039
37	47 (70)	21.92	21626	2.548	2.548
38	48 (66,76,98,80,93,95,	22.04	29026	5.107	5.107
39	49 (55,91,121)	22.33	2454	0.348	0.348
40	50 (56,60)	22.64	19397	2.293	2.293
41	51 (84,92,155)	22.88	5416	1.599	1.599
42	52 (89)	22.99	534	0.070	0.070
43	53 (90,101)	23.14	10119	1.397	1.397
44	54 (79,99,113)	23.33	4586	0.402	0.402
45	55 (119,150)	23.63	427	0.021	0.021
46	56 (78,83,112,108)	23.71	890	0.124	0.124
47	57 (97,152,86)	23.92	4049	0.399	0.399
48	58 (81,87,117,125,115	24.10	7239	0.914	0.914
49	59 (116,85,111)	24.25	3757	0.381	0.381
50	60 (120,136)	24.37	3601	0.451	0.451
51	61 (77,110,148)	24.51	12010	1.657	1.657
52	63 (82)	24.87	2880	0.291	0.291
53	64 (151)	25.17	10238	1.266	1.266
54	65 (124,135)	25.30	2876	0.213	0.213
55	66 (144)	25.36	2273	0.433	0.433
56	67 (107,109,147)	25.44	655	0.084	0.084
57	68 (123)	25.53	150	0.019	0.019
58	69 (106,118,139,149)	25.62	24993	2.781	2.781
59	71 (114,134,143)	26.03	1068	0.102	0.102
60	72 (122,131,133,142)	26.24	600	0.028	0.028
61	73 (146,165,188)	26.53	2334	0.229	0.229
62	74 (105,132,161)	26.66	10276	0.894	0.894
63	75 (153)	26.81	22559	2.041	2.041
64	77 (141)	27.35	7671	1.104	1.104
65	78 (179)	27.42	9033	1.052	1.052
66	79 (137)	27.64	227	0.026	0.026
67	80 (130,176)	27.79	3180	0.168	0.168
68	82 (138,163,164)	28.02	18810	1.865	1.865
69	83 (158,160,186)	28.21	2418	0.187	0.187
70	84 (126,129)	28.41	432	0.006	0.006
71	85 (166,178)	28.76	4168	0.736	0.736
72	87 (175,159)	29.07	845	0.121	0.121
73	88 (182,187)	29.22	27070	2.724	2.724
74	89 (128,162)	29.33	979	0.059	0.059
75	90 (183)	29.53	11735	1.225	1.225
76	91 (167)	29.79	244	0.013	0.013
77	92 (185)	30.14	4462	0.317	0.317
78	93 (174,181)	30.52	22730	2.364	2.364
79	94 (177)	30.79	10463	1.231	1.231
80	95 (156,171)	31.10	4710	0.517	0.517
81	96 (157,202)	31.37	3207	0.050	0.050
82	98 (173)	31.56	258	0.019	0.019
83	99 (201)	31.93	2286	0.268	0.268
84	100 (172,204)	32.17	3041	0.365	0.365

85	101 (192,197)	32.48	870	0.104	0.104
86	102 (180)	32.66	48906	4.449	4.449
87	103 (193)	32.91	2636	0.290	0.290
88	104 (191)	33.22	798	0.084	0.084
89	105 (200,169)	33.58	2840	0.302	0.302
90	106 (170)	34.75	14181	0.852	0.852
91	107 (190)	35.04	3884	0.278	0.278
92	108 (198)	35.93	1222	0.089	0.089
93	109 (199)	36.16	20212	3.153	3.153
94	110 (196,203)	36.70	22008	3.148	3.148
95	111 (189)	37.88	429	0.029	0.029
96	112 (195)	39.47	6978	0.379	0.379
97	113 (208)	39.99	1185	0.178	0.178
98	114 (207)	40.96	1139	0.084	0.084
99	115 (194)	42.39	18483	1.229	1.229
100	116 (205)	43.31	716	0.077	0.077
101	117 (206)	48.53	7216	0.509	0.509
102	118 (209)	54.74	42	0.004	0.004
103	Sum			125.556	125.556



Sample Name: CCCS0924B Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/24/2009 14:38:19 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 09/24/2009 15:46:34  
Sample Set Name: GC16\_092409C User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_082309 Current Time: 06:12:37  
Run Time: 60 Minutes Current Date: 09/25/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-800-7

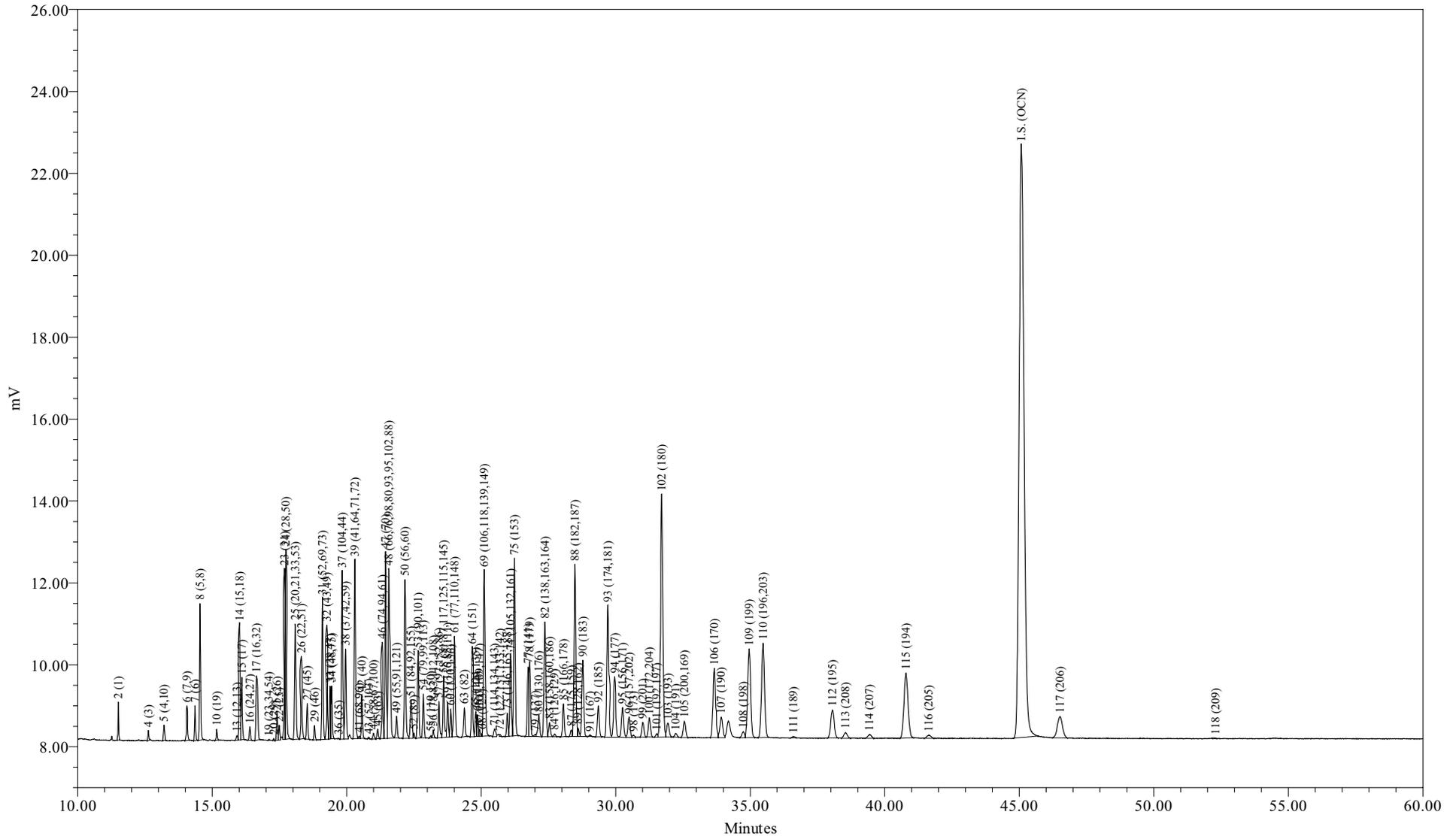
Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2379	8.102	8.102
2	4 (3)	12.94	624	4.039	4.039
3	5 (4,10)	13.54	1286	2.054	2.054
4	6 (7,9)	14.41	3569	0.757	0.757
5	7 (6)	14.72	2921	1.272	1.272
6	8 (5,8)	14.91	13203	10.953	10.953
7	10 (19)	15.55	910	0.244	0.244
8	13 (12,13)	16.30	435	0.150	0.150
9	14 (15,18)	16.42	12334	3.150	3.150
10	15 (17)	16.50	5856	3.081	3.081
11	16 (24,27)	16.81	1256	0.219	0.219
12	17 (16,32)	17.06	10781	3.261	3.261
13	19 (23,34,54)	17.51	63	0.015	0.015
14	20 (29)	17.71	177	0.025	0.025
15	21 (26)	17.83	2496	0.563	0.563
16	22 (25)	17.91	1286	0.192	0.192
17	23 (31)	18.11	16587	3.104	3.104
18	24 (28,50)	18.16	20344	3.459	3.459
19	25 (20,21,33,53)	18.52	14294	3.107	3.107
20	26 (22,51)	18.75	9217	2.184	2.184
21	27 (45)	18.97	3532	0.680	0.680
22	29 (46)	19.25	1480	0.309	0.309
23	31 (52,69,73)	19.55	15847	4.256	4.256
24	32 (43,49)	19.72	12722	1.751	1.751
25	33 (38,47)	19.83	5138	0.505	0.505
26	34 (48,75)	19.90	5230	0.697	0.697
27	36 (35)	20.14	55	0.019	0.019
28	37 (104,44)	20.29	19064	3.367	3.367
29	38 (37,42,59)	20.42	10378	2.216	2.216
30	39 (41,64,71,72)	20.77	21329	2.940	2.940
31	41 (68,96)	20.94	255	0.056	0.056
32	42 (40)	21.03	4397	0.715	0.715
33	43 (57,103)	21.28	119	0.019	0.019

34	44 (58,67,100)	21.47	591	0.075	0.075
35	45 (63)	21.62	980	0.115	0.115
36	46 (74,94,61)	21.79	10582	1.029	1.029
37	47 (70)	21.92	20932	2.498	2.498
38	48 (66,76,98,80,93,95,	22.04	28127	5.013	5.013
39	49 (55,91,121)	22.34	2263	0.326	0.326
40	50 (56,60)	22.65	18379	2.201	2.201
41	51 (84,92,155)	22.88	5056	1.512	1.512
42	52 (89)	22.99	371	0.049	0.049
43	53 (90,101)	23.14	9793	1.369	1.369
44	54 (79,99,113)	23.34	4512	0.401	0.401
45	55 (119,150)	23.61	209	0.011	0.011
46	56 (78,83,112,108)	23.71	793	0.112	0.112
47	57 (97,152,86)	23.92	4115	0.411	0.411
48	58 (81,87,117,125,115	24.10	7194	0.920	0.920
49	59 (116,85,111)	24.25	3712	0.382	0.382
50	60 (120,136)	24.37	3485	0.442	0.442
51	61 (77,110,148)	24.50	11447	1.600	1.600
52	63 (82)	24.88	2740	0.280	0.280
53	64 (151)	25.17	10263	1.285	1.285
54	65 (124,135)	25.30	2634	0.197	0.197
55	66 (144)	25.37	2142	0.413	0.413
56	67 (107,109,147)	25.43	583	0.076	0.076
57	68 (123)	25.53	79	0.010	0.010
58	69 (106,118,139,149)	25.62	24872	2.803	2.803
59	71 (114,134,143)	26.03	1031	0.100	0.100
60	72 (122,131,133,142)	26.23	231	0.011	0.011
61	73 (146,165,188)	26.52	2371	0.235	0.235
62	74 (105,132,161)	26.66	10199	0.899	0.899
63	75 (153)	26.81	22294	2.044	2.044
64	77 (141)	27.35	7849	1.145	1.145
65	78 (179)	27.42	9207	1.086	1.086
66	79 (137)	27.64	198	0.023	0.023
67	80 (130,176)	27.79	2984	0.159	0.159
68	82 (138,163,164)	28.02	18464	1.855	1.855
69	83 (158,160,186)	28.20	1878	0.146	0.146
70	84 (126,129)	28.41	382	0.005	0.005
71	85 (166,178)	28.76	4442	0.794	0.794
72	87 (175,159)	29.07	921	0.133	0.133
73	88 (182,187)	29.22	27068	2.759	2.759
74	89 (128,162)	29.33	1078	0.065	0.065
75	90 (183)	29.53	11540	1.220	1.220
76	91 (167)	29.81	494	0.027	0.027
77	92 (185)	30.14	4388	0.316	0.316
78	93 (174,181)	30.52	22795	2.402	2.402
79	94 (177)	30.80	10235	1.220	1.220
80	95 (156,171)	31.11	4806	0.534	0.534
81	96 (157,202)	31.37	3361	0.053	0.053
82	98 (173)	31.55	413	0.031	0.031
83	99 (201)	31.93	2438	0.290	0.290
84	100 (172,204)	32.18	3341	0.407	0.407

85	101 (192,197)	32.48	748	0.091	0.091
86	102 (180)	32.67	48719	4.490	4.490
87	103 (193)	32.91	2914	0.325	0.325
88	104 (191)	33.23	964	0.103	0.103
89	105 (200,169)	33.58	3011	0.324	0.324
90	106 (170)	34.76	14287	0.870	0.870
91	107 (190)	35.04	3848	0.279	0.279
92	108 (198)	35.93	1274	0.095	0.095
93	109 (199)	36.15	20540	3.246	3.246
94	110 (196,203)	36.71	22156	3.211	3.211
95	111 (189)	37.93	278	0.019	0.019
96	112 (195)	39.47	6644	0.366	0.366
97	113 (208)	39.98	1211	0.184	0.184
98	114 (207)	40.99	1036	0.078	0.078
99	115 (194)	42.42	18520	1.247	1.247
100	116 (205)	43.33	717	0.078	0.078
101	117 (206)	48.56	6961	0.497	0.497
102	118 (209)	54.75	29	0.003	0.003
103	Sum			124.458	124.458

# Standards Raw Data (GC-24)



Sample Name: CCCS0923A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 9/24/2009 5:52:46 AM EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-176-7

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 05:52:46  
 Lab Sample ID: CCCS0923A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-176-7

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 116 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.56	15.83
Di	12.18	15.36
Tri	17.70	19.42
Tetra	21.31	20.69
Penta	8.43	7.26
Hexa	8.19	6.47
Hepta	13.57	9.72
Octa	7.36	4.84
Nona	0.69	0.42
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.5166	37.5	30.2
A1242	23+24/31+28	5.7713	28.8	23.2
A1254SED	61/100	1.4101	7.03	
A1254BIO	69+75+82/149+153+138	6.2442		25.1
A1260	102/180	4.1022	20.5	16.5
A1268	115/194	1.2477	6.22	5.01

Ortho Cl / biphenyl Residue = 1.59

Meta + Para Cl / biphenyl Residue = 2.14

Total Cl / biphenyl Residue = 3.73

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 05:52:46  
 Lab Sample ID: CCCS0923A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-176-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.51	188.7	1699	7.52	39.8			
3	12.52	188.7		-	-			
4	12.62	188.7	536	4.74	25.1			
5	13.21	223.1	1107	2.08	9.31			
6	14.06	223.1	2709	0.722	3.24			
7	14.36	223.1	2139	1.21	5.43			
8	14.55	223.1	8924	9.25	41.5			
9	15.11	223.1		-	-			
10	15.17	257.5	694	0.244	0.948			
11	15.64	257.5		-	-			
12	15.72	223.1		-	-			
13	15.92	223.1	388	0.162	0.724			
14	16.02	249.0	7898	2.85	11.4			
15	16.10	257.5	4766	2.65	10.3			
16	16.40	257.5	987	0.208	0.809			
17	16.65	257.5	7478	2.90	11.2			
19	17.11	267.9	32	0.0102	0.0382			
20	17.29	257.5	129	0.0301	0.117			
21	17.41	257.5	1880	0.577	2.24			
22	17.50	257.5	1086	0.236	0.918			
23	17.69	257.5	10921	2.85	11.1			
24	17.74	257.5	14280	2.92	11.4			
25	18.09	259.5	10041	2.84	10.9			
26	18.32	258.7	6601	1.94	7.48			
27	18.53	292.0	2589	0.660	2.26			
28	18.69	257.5		-	-			
29	18.81	292.0	1039	0.304	1.04			
30	18.96	257.5		-	-			
31	19.10	292.0	10686	3.81	13.1			
32	19.27	292.0	8823	1.59	5.43			
33	19.38	292.0	3860	0.482	1.65			
34	19.44	292.0	4114	0.694	2.38			
35	19.59	292.0		-	-			
36	19.70	257.5	23	0.00978	0.0380			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.83	292.0	12904	2.98	10.2			
38	19.96	272.4	7783	2.15	7.88			
39	20.30	292.0	14623	2.60	8.92			
41	20.46	326.4	200	0.0590	0.181			
42	20.56	292.0	3342	0.692	2.37			
43	20.82	298.9	135	0.0284	0.0952			
44	20.99	298.9	522	0.0837	0.280			
45	21.15	292.0	757	0.122	0.419			
46	21.32	292.0	7864	0.957	3.28			
47	21.45	292.0	14872	2.25	7.71			
48	21.57	293.5	20107	4.50	15.3			
49	21.85	324.7	1874	0.347	1.07			
50	22.17	292.0	13512	2.01	6.88			
51	22.39	326.4	4110	1.54	4.73			
52	22.50	326.4	331	0.0604	0.185			
53	22.66	326.4	7396	1.30	3.99			
54	22.85	326.4	3561	0.404	1.24			
55	23.13	326.4	153	0.0124	0.0380			
56	23.22	326.4	614	0.122	0.372			
57	23.43	326.4	3158	0.424	1.30			
58	23.60	326.4	5493	0.886	2.71			
59	23.76	326.4	2897	0.370	1.13			
60	23.87	360.9	2243	0.499	1.38			
61	24.01	326.4	8858	1.41	4.32			
62	24.29	360.9		-	-			
63	24.37	326.4	2685	0.349	1.07			
64	24.67	360.9	7467	1.20	3.32			
65	24.80	350.5	2089	0.205	0.584			
66	24.86	360.9	1753	0.419	1.16			
67	24.94	336.8	498	0.0795	0.236			
68	25.03	326.4	104	0.0159	0.0488			
69	25.11	337.5	17977	2.58	7.64			
70	25.24	360.9		-	-			
71	25.50	347.8	979	0.145	0.416			
72	25.70	336.8	173	0.0161	0.0479			
73	25.97	360.9	1985	0.265	0.735			
74	26.09	347.8	7853	0.869	2.50			
75	26.24	360.9	16302	1.92	5.31			
76	26.37	360.9		-	-			
77	26.74	360.9	5844	1.13	3.12			
78	26.80	395.3	7109	1.07	2.72			
79	27.01	360.9	247	0.0392	0.109			
80	27.14	360.9	2494	0.178	0.494			
82	27.37	360.9	13970	1.75	4.85			
83	27.54	360.9	1581	0.174	0.483			
84	27.73	360.9	305	0.0143	0.0397			
85	28.06	395.3	3493	0.811	2.05			
87	28.35	395.3	663	0.141	0.356			
88	28.48	395.3	19553	2.52	6.37			
89	28.60	360.9	829	0.0641	0.178			
90	28.78	395.3	8821	1.16	2.93			
91	29.03	360.9	152	0.0223	0.0617			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.35	394.3	3772	0.335	0.850			
93	29.71	394.3	16871	2.20	5.57			
94	29.96	394.3	8209	1.18	3.00			
95	30.25	382.2	4006	0.537	1.41			
96	30.49	429.8	2834	0.0522	0.121			
98	30.66	395.3	305	0.0309	0.0782			
99	31.01	429.8	1969	0.276	0.642			
100	31.25	395.3	2522	0.368	0.931			
101	31.52	429.8	415	0.0659	0.153			
102	31.71	395.3	36712	4.10	10.4			
103	31.94	395.3	2186	0.275	0.696			
104	32.23	395.3	495	0.0671	0.170			
105	32.55	429.8	2545	0.308	0.716			
106	33.66	395.3	11936	0.842	2.13			
107	33.92	395.3	3626	0.289	0.732			
108	34.74	429.8	996	0.0832	0.194			
109	34.96	429.8	16497	3.03	7.06			
110	35.48	429.8	18045	3.02	7.03			
111	36.60	395.3	227	0.0197	0.0498			
112	38.06	429.8	6064	0.366	0.851			
113	38.54	464.2	1232	0.196	0.422			
114	39.42	464.2	863	0.0722	0.155			
115	40.79	429.8	16583	1.25	2.90			
116	41.64	429.8	805	0.0805	0.187			
117	46.52	464.2	6877	0.533	1.15			
118	52.29	498.6	49	0.00402	0.00805			

Total Concentration = 116 ng/mL

Total Nanomoles = 0.410

Average Molecular Weight = 282.7

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.08 minutes

Internal Standard Peak Area = 186338.4

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 05:52:46  
 Lab Sample ID: CCCS0923A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-176-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2553	2	6.481	9.710
3	12.52	1:0	002		3	-	-
4	12.62	1:0	003	0.2799	4	4.084	6.120
5	13.21	2:2	004 010	0.2930	2-2; 26	1.791	2.270
6	14.06	2:1	007 009	0.3119	24; 25	0.623	0.789
7	14.36	2:1	006	0.3185	2-3	1.044	1.323
8	14.55	2:1	005 008	0.3228	23; 2-4	7.974	10.106
9	15.11	2:0	014		35	-	-
10	15.17	3:3	019	0.3365	26-2	0.210	0.231
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013	0.3531	34; 3-4	0.139	0.177
14	16.02	2:0 3:2	015 018	0.3554	4-4; 25-2	2.454	2.787
15	16.10	3:2	017	0.3571	24-2	2.281	2.504
16	16.40	3:2	024 027	0.3638	236; 26-3	0.180	0.197
17	16.65	3:2	016 032	0.3693	23-2; 26-4	2.497	2.741
19	17.11	3:1 4:4	023 034 054	0.3795	235; 35-2; 26-26	0.009	0.009
20	17.29	3:1	029	0.3835	245	0.026	0.028
21	17.41	3:1	026	0.3862	25-3	0.497	0.546
22	17.50	3:1	025	0.3882	24-3	0.204	0.224
23	17.69	3:1	031	0.3924	25-4	2.456	2.696
24	17.74	3:1 4:3	028 050	0.3935	24-4; 246-2	2.520	2.767
25	18.09	3:1 4:3	020 021 033 053	0.4013	23-3; 234; 34-2; 25-26	2.445	2.664
26	18.32	3:1 4:3	022 051	0.4064	23-4; 24-26	1.668	1.823
27	18.53	4:3	045	0.4110	236-2	0.569	0.551
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4173	23-26	0.262	0.253
30	18.96	3:0	039		35-4	-	-
31	19.10	4:2	052 069 073	0.4237	25-25; 246-3; 26-35	3.286	3.182
32	19.27	4:2	043 049	0.4275	235-2; 24-25	1.368	1.324
33	19.38	4:2	038 047	0.4299	345; 24-24	0.416	0.403
34	19.44	4:2	048 075	0.4312	245-2; 246-4	0.598	0.579
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.70	3:0	035	0.4370	34-3	0.008	0.009
37	19.83	5:4 4:2	104 044	0.4399	246-26; 23-25	2.567	2.486
38	19.96	3:0 4:2	037 042 059	0.4428	34-4; 23-24; 236-3	1.851	1.921

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.30	4:2	<b>041 064 071 072</b>	0.4503	234-2; 236-4; 26-34; 25-35	2.246	2.174
41	20.46	5:4	<b>068 096</b>	0.4539	24-35; 236-26	0.051	0.044
42	20.56	4:2	<b>040</b>	0.4561	23-23	0.597	0.578
43	20.82	4:1 5:3	<b>057 103</b>	0.4618	235-3; 246-25	0.025	0.023
44	20.99	4:1 5:3	<b>058 067 100</b>	0.4656	23-35; 245-3; 246-24	0.072	0.068
45	21.15	4:1	<b>063</b>	0.4692	235-4	0.106	0.102
46	21.32	4:1 5:3	<b>074 094 061</b>	0.4729	245-4; 235-26; 2345	0.825	0.799
47	21.45	4:1	<b>070</b>	0.4758	25-34	1.942	1.881
48	21.57	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4785	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.882	3.739
49	21.85	4:1 5:3	<b>055 091 121</b>	0.4847	234-3; 236-24; 246-35	0.300	0.261
50	22.17	4:1	<b>056 060</b>	0.4918	23-34; 234-4	1.733	1.678
51	22.39	5:3 6:4	<b>084 092 155</b>	0.4967	236-23; 235-25; 246-246	1.331	1.153
52	22.50	5:3	<b>089</b>	0.4991	234-26	0.052	0.045
53	22.66	5:2	<b>090 101</b>	0.5027	235-24; 245-25	1.124	0.973
54	22.85	5:2	<b>079 099 113</b>	0.5069	34-35; 245-24; 236-35	0.349	0.302
55	23.13	5:2 6:4	<b>119 150</b>	0.5131	246-34; 236-246	0.011	0.009
56	23.22	5:2	<b>078 083 112 108</b>	0.5151	345-3; 235-23; 2356-3; 2346-3	0.105	0.091
57	23.43	5:2 6:4	<b>097 152 086</b>	0.5197	245-23; 2356-26; 2345-2	0.366	0.317
58	23.60	5:2	<b>081 087 117 125 115 145</b>	0.5235	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.764	0.661
59	23.76	5:2	<b>116 085 111</b>	0.5271	23456; 234-24; 235-35	0.319	0.276
60	23.87	6:4	<b>120 136</b>	0.5295	245-35; 236-236	0.431	0.337
61	24.01	5:2	<b>077 110 148</b>	0.5326	34-34; 236-34; 235-246	1.216	1.053
62	24.29	6:3	<b>154</b>		245-246	-	-
63	24.37	5:2	<b>082</b>	0.5406	234-23	0.301	0.261
64	24.67	6:3	<b>151</b>	0.5472	2356-25	1.035	0.810
65	24.80	5:1 6:3	<b>124 135</b>	0.5501	345-25; 235-236	0.176	0.142
66	24.86	6:3	<b>144</b>	0.5515	2346-25	0.362	0.283
67	24.94	5:1 6:3	<b>107 109 147</b>	0.5532	234-35; 235-34; 2356-24	0.069	0.058
68	25.03	5:1	<b>123</b>	0.5552	345-24	0.014	0.012
69	25.11	5:1 6:3	<b>106 118 139 149</b>	0.5570	2345-3; 245-34; 2346-24; 236-245	2.224	1.863
70	25.24	6:3	<b>140</b>		234-246	-	-
71	25.50	5:1 6:3	<b>114 134 143</b>	0.5657	2345-4; 2356-23; 2345-26	0.125	0.101
72	25.70	5:1 6:3	<b>122 131 133 142</b>	0.5701	345-23; 2346-23; 235-235; 23456-2	0.014	0.012
73	25.97	6:2	<b>146 165 188</b>	0.5761	235-245; 2356-35; 2356-246	0.229	0.179
74	26.09	5:1 6:3	<b>105 132 161</b>	0.5787	234-34; 234-236; 2346-35	0.749	0.609
75	26.24	6:2	<b>153</b>	0.5821	245-245	1.651	1.294
76	26.37	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	26.74	6:2	<b>141</b>	0.5932	2345-25	0.972	0.762
78	26.80	7:4	<b>179</b>	0.5945	2356-236	0.926	0.662
79	27.01	6:2	<b>137</b>	0.5992	2345-24	0.034	0.027
80	27.14	6:2 7:4	<b>130 176</b>	0.6020	234-235; 2346-236	0.154	0.120
82	27.37	6:2	<b>138 163 164</b>	0.6071	234-245; 2356-34; 236-345	1.508	1.182
83	27.54	6:2	<b>158 160 186</b>	0.6109	2346-34; 23456-3; 23456-26	0.150	0.118
84	27.73	6:2	<b>126 129</b>	0.6151	345-34; 2345-23	0.012	0.010
85	28.06	7:3	<b>166 178</b>	0.6224	23456-4; 2356-235	0.699	0.500
87	28.35	7:3	<b>175 159</b>	0.6289	2346-235; 2345-35	0.121	0.087
88	28.48	7:3	<b>182 187</b>	0.6318	2345-246; 2356-245	2.171	1.553
89	28.60	6:2	<b>128 162</b>	0.6344	234-234; 235-345	0.055	0.043
90	28.78	7:3	<b>183</b>	0.6384	2346-245	0.997	0.713
91	29.03	6:1	<b>167</b>	0.6440	245-345	0.019	0.015
92	29.35	7:3	<b>185</b>	0.6511	23456-25	0.289	0.207
93	29.71	7:3	<b>174 181</b>	0.6591	2345-236; 23456-24	1.895	1.359
94	29.96	7:3	<b>177</b>	0.6646	2356-234	1.018	0.730
95	30.25	6:1 7:3	<b>156 171</b>	0.6710	2345-34; 2346-234	0.463	0.343
96	30.49	8:4	<b>157 202</b>	0.6764	234-345; 2356-2356	0.045	0.030
98	30.66	7:3	<b>173</b>	0.6801	23456-23	0.027	0.019
99	31.01	8:4	<b>201</b>	0.6879	2346-2356	0.238	0.157
100	31.25	7:2	<b>172 204</b>	0.6932	2345-235; 23456-246	0.317	0.227
101	31.52	8:4	<b>192 197</b>	0.6992	23456-35; 2346-2346	0.057	0.037
102	31.71	7:2	<b>180</b>	0.7034	2345-245	3.537	2.530
103	31.94	7:2	<b>193</b>	0.7085	2356-345	0.237	0.170
104	32.23	7:2	<b>191</b>	0.7150	2346-345	0.058	0.041

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	32.55	8:4	<b>200</b> 169	0.7220	23456-236; 345-345	0.265	0.175
106	33.66	7:2	<b>170</b>	0.7467	2345-234	0.726	0.519
107	33.92	7:2	<b>190</b>	0.7524	23456-34	0.249	0.178
108	34.74	8:3	<b>198</b>	0.7706	23456-235	0.072	0.047
109	34.96	8:3	<b>199</b>	0.7755	2345-2356	2.615	1.720
110	35.48	8:3	<b>196</b> <b>203</b>	0.7870	2345-2346; 23456-245	2.604	1.713
111	36.60	7:1	<b>189</b>	0.8119	2345-345	0.017	0.012
112	38.06	8:3	<b>195</b>	0.8443	23456-234	0.315	0.208
113	38.54	9:4	<b>208</b>	0.8549	23456-2356	0.169	0.103
114	39.42	9:4	<b>207</b>	0.8744	23456-2346	0.062	0.038
115	40.79	8:2	<b>194</b>	0.9048	2345-2345	1.076	0.708
116	41.64	8:2	<b>205</b>	0.9237	23456-345	0.069	0.046
117	46.52	9:3	<b>206</b>	1.032	23456-2345	0.460	0.280
118	52.29	10:4	<b>209</b>	1.160	23456-23456	0.003	0.002

Concentration = 116 ng/mL

Total Nanomoles = 0.410

Average Molecular Weight = 282.7

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

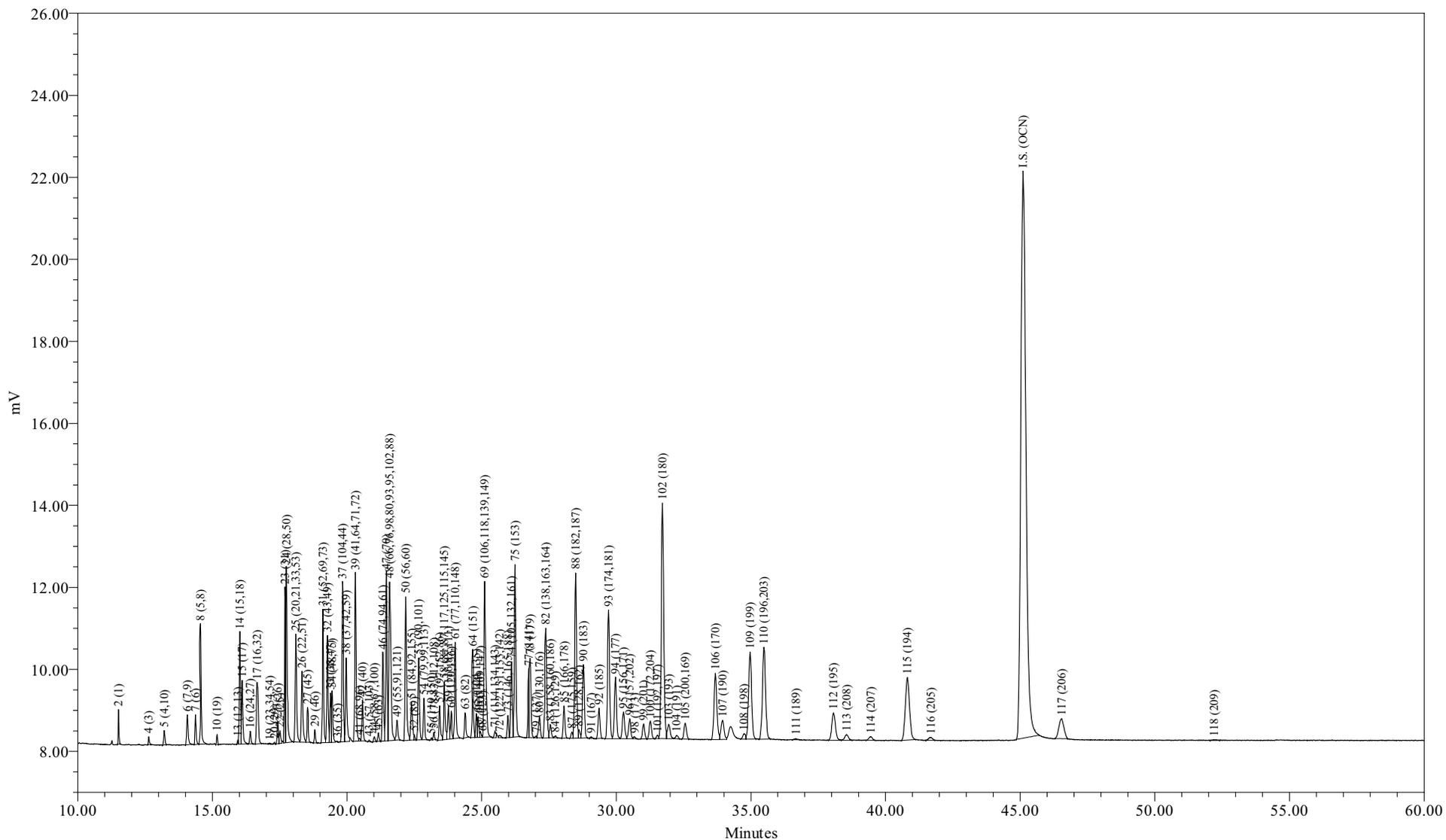
DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: CCCS0923B  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 9/24/2009 12:12:33 PM EDT

Sample Amount (L) : 1.0000  
 Dilution: 1  
 Processing Method: CSGB LL1X\_090509  
 LIMS File ID: GC24-176-16

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 12:12:33  
 Lab Sample ID: CCCS0923B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-176-16

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 117 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.04	15.09
Di	12.19	15.41
Tri	17.88	19.67
Tetra	21.43	20.88
Penta	8.48	7.33
Hexa	7.93	6.28
Hepta	13.95	10.02
Octa	7.41	4.89
Nona	0.66	0.40
Deca	0.02	0.01

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.2902	36.5	29.2
A1242	23+24/31+28	5.7919	29.0	23.2
A1254SED	61/100	1.4305	7.17	
A1254BIO	69+75+82/149+153+138	6.4313		25.8
A1260	102/180	4.1823	21.0	16.8
A1268	115/194	1.2603	6.32	5.05

Ortho Cl / biphenyl Residue = 1.61

Meta + Para Cl / biphenyl Residue = 2.15

Total Cl / biphenyl Residue = 3.76

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 12:12:33  
 Lab Sample ID: CCCS0923B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-176-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.51	188.7	1615	7.29	38.6			
3	12.52	188.7		-	-			
4	12.64	188.7	495	4.48	23.7			
5	13.21	223.1	1087	2.08	9.34			
6	14.07	223.1	2663	0.725	3.25			
7	14.37	223.1	2049	1.18	5.31			
8	14.56	223.1	8946	9.47	42.4			
9	15.11	223.1		-	-			
10	15.17	257.5	626	0.225	0.874			
11	15.64	257.5		-	-			
12	15.72	223.1		-	-			
13	15.95	223.1	265	0.112	0.504			
14	16.02	249.0	7743	2.85	11.4			
15	16.11	257.5	5206	2.95	11.5			
16	16.41	257.5	944	0.204	0.791			
17	16.66	257.5	7478	2.96	11.5			
19	17.13	267.9	72	0.0235	0.0876			
20	17.31	257.5	119	0.0282	0.110			
21	17.43	257.5	1728	0.541	2.10			
22	17.51	257.5	1110	0.247	0.957			
23	17.70	257.5	9889	2.63	10.2			
24	17.75	257.5	15114	3.16	12.3			
25	18.10	259.5	9846	2.84	10.9			
26	18.33	258.7	6629	1.98	7.67			
27	18.54	292.0	2616	0.681	2.33			
28	18.69	257.5		-	-			
29	18.81	292.0	1010	0.301	1.03			
30	18.96	257.5		-	-			
31	19.11	292.0	10711	3.90	13.4			
32	19.28	292.0	8869	1.63	5.57			
33	19.39	292.0	3723	0.475	1.63			
34	19.45	292.0	4349	0.749	2.56			
35	19.59	292.0		-	-			
36	19.65	257.5	30	0.0129	0.0500			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.84	292.0	12768	3.01	10.3			
38	19.97	272.4	7703	2.17	7.96			
39	20.31	292.0	14577	2.65	9.08			
41	20.46	326.4	244	0.0737	0.226			
42	20.57	292.0	3320	0.702	2.40			
43	20.83	298.9	120	0.0257	0.0860			
44	21.01	298.9	436	0.0713	0.239			
45	21.17	292.0	673	0.111	0.380			
46	21.33	292.0	7593	0.943	3.23			
47	21.46	292.0	14649	2.27	7.76			
48	21.58	293.5	20209	4.62	15.7			
49	21.86	324.7	1936	0.366	1.13			
50	22.18	292.0	13333	2.02	6.93			
51	22.40	326.4	4226	1.62	4.97			
52	22.50	326.4	319	0.0594	0.182			
53	22.66	326.4	7300	1.31	4.02			
54	22.86	326.4	3545	0.411	1.26			
55	23.14	326.4	161	0.0132	0.0405			
56	23.23	326.4	589	0.119	0.365			
57	23.44	326.4	3205	0.439	1.35			
58	23.61	326.4	5385	0.886	2.72			
59	23.77	326.4	3014	0.392	1.20			
60	23.87	360.9	2323	0.528	1.46			
61	24.02	326.4	8803	1.43	4.38			
62	24.29	360.9		-	-			
63	24.39	326.4	2287	0.303	0.927			
64	24.67	360.9	7370	1.21	3.35			
65	24.81	350.5	1982	0.198	0.565			
66	24.87	360.9	1741	0.425	1.18			
67	24.95	336.8	467	0.0761	0.226			
68	25.04	326.4	44	0.00687	0.0211			
69	25.11	337.5	18095	2.65	7.86			
70	25.24	360.9		-	-			
71	25.49	347.8	644	0.0970	0.279			
72	25.67	336.8	347	0.0335	0.0994			
73	25.98	360.9	1888	0.257	0.713			
74	26.11	347.8	7434	0.839	2.41			
75	26.24	360.9	16697	2.00	5.55			
76	26.37	360.9		-	-			
77	26.76	360.9	4061	0.797	2.21			
78	26.80	395.3	8718	1.35	3.42			
79	27.03	360.9	173	0.0274	0.0760			
80	27.15	360.9	2479	0.181	0.501			
82	27.38	360.9	13885	1.78	4.92			
83	27.55	360.9	1621	0.182	0.505			
84	27.73	360.9	249	0.0119	0.0330			
85	28.06	395.3	3440	0.815	2.06			
87	28.35	395.3	646	0.140	0.354			
88	28.49	395.3	19514	2.57	6.49			
89	28.61	360.9	835	0.0660	0.183			
90	28.78	395.3	8858	1.19	3.00			
91	29.07	360.9	194	0.0287	0.0796			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample (Picomoles/mL)	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.36	394.3	3727	0.338	0.858			
93	29.71	394.3	16864	2.24	5.69			
94	29.97	394.3	8274	1.22	3.08			
95	30.27	382.2	3843	0.526	1.38			
96	30.50	429.8	2803	0.0527	0.123			
98	30.68	395.3	256	0.0265	0.0671			
99	31.02	429.8	1981	0.284	0.660			
100	31.26	395.3	2572	0.383	0.968			
101	31.53	429.8	376	0.0609	0.142			
102	31.72	395.3	36650	4.18	10.6			
103	31.95	395.3	2520	0.324	0.819			
104	32.24	395.3	505	0.0697	0.176			
105	32.56	429.8	2438	0.301	0.700			
106	33.68	395.3	12020	0.866	2.19			
107	33.95	395.3	3650	0.297	0.752			
108	34.74	429.8	931	0.0793	0.184			
109	34.97	429.8	16459	3.09	7.19			
110	35.49	429.8	18100	3.09	7.20			
111	36.67	395.3	216	0.0191	0.0483			
112	38.07	429.8	6265	0.386	0.898			
113	38.56	464.2	1302	0.211	0.455			
114	39.45	464.2	805	0.0687	0.148			
115	40.81	429.8	16409	1.26	2.93			
116	41.68	429.8	738	0.0752	0.175			
117	46.54	464.2	6278	0.497	1.07			
118	52.20	498.6	216	0.0187	0.0376			

Total Concentration = 117 ng/mL

Total Nanomoles = 0.413

Average Molecular Weight = 283.6

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 182548.8

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/24/2009 12:12:33  
 Lab Sample ID: CCCS0923B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-176-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	0.2552	2	6.222	9.353
3	12.52	1:0	002		3	-	-
4	12.64	1:0	003	0.2802	4	3.820	5.741
5	13.21	2:2	004 010	0.2928	2-2; 26	1.778	2.261
6	14.07	2:1	007 009	0.3119	24; 25	0.619	0.786
7	14.37	2:1	006	0.3186	2-3	1.010	1.285
8	14.56	2:1	005 008	0.3228	23; 2-4	8.081	10.274
9	15.11	2:0	014		35	-	-
10	15.17	3:3	019	0.3363	26-2	0.192	0.212
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.95	2:0	012 013	0.3536	34; 3-4	0.096	0.122
14	16.02	2:0 3:2	015 018	0.3551	4-4; 25-2	2.431	2.769
15	16.11	3:2	017	0.3571	24-2	2.520	2.775
16	16.41	3:2	024 027	0.3638	236; 26-3	0.174	0.191
17	16.66	3:2	016 032	0.3693	23-2; 26-4	2.523	2.779
19	17.13	3:1 4:4	023 034 054	0.3797	235; 35-2; 26-26	0.020	0.021
20	17.31	3:1	029	0.3837	245	0.024	0.027
21	17.43	3:1	026	0.3864	25-3	0.462	0.509
22	17.51	3:1	025	0.3882	24-3	0.210	0.232
23	17.70	3:1	031	0.3924	25-4	2.243	2.471
24	17.75	3:1 4:3	028 050	0.3935	24-4; 246-2	2.700	2.974
25	18.10	3:1 4:3	020 021 033 053	0.4012	23-3; 234; 34-2; 25-26	2.423	2.648
26	18.33	3:1 4:3	022 051	0.4063	23-4; 24-26	1.693	1.857
27	18.54	4:3	045	0.4110	236-2	0.582	0.565
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046	0.4170	23-26	0.257	0.250
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	3.329	3.234
32	19.28	4:2	043 049	0.4274	235-2; 24-25	1.389	1.349
33	19.39	4:2	038 047	0.4298	345; 24-24	0.405	0.394
34	19.45	4:2	048 075	0.4312	245-2; 246-4	0.639	0.621
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.65	3:0	035	0.4356	34-3	0.011	0.012
37	19.84	5:4 4:2	104 044	0.4398	246-26; 23-25	2.567	2.494
38	19.97	3:0 4:2	037 042 059	0.4427	34-4; 23-24; 236-3	1.851	1.927

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.31	4:2	<b>041 064 071 072</b>	0.4502	234-2; 236-4; 26-34; 25-35	2.263	2.198
41	20.46	5:4	<b>068 096</b>	0.4536	24-35; 236-26	0.063	0.055
42	20.57	4:2	<b>040</b>	0.4560	23-23	0.599	0.582
43	20.83	4:1 5:3	<b>057 103</b>	0.4618	235-3; 246-25	0.022	0.021
44	21.01	4:1 5:3	<b>058 067 100</b>	0.4658	23-35; 245-3; 246-24	0.061	0.058
45	21.17	4:1	<b>063</b>	0.4693	235-4	0.095	0.092
46	21.33	4:1 5:3	<b>074 094 061</b>	0.4728	245-4; 235-26; 2345	0.805	0.782
47	21.46	4:1	<b>070</b>	0.4757	25-34	1.933	1.878
48	21.58	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4784	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.944	3.812
49	21.86	4:1 5:3	<b>055 091 121</b>	0.4846	234-3; 236-24; 246-35	0.312	0.273
50	22.18	4:1	<b>056 060</b>	0.4917	23-34; 234-4	1.728	1.678
51	22.40	5:3 6:4	<b>084 092 155</b>	0.4966	236-23; 235-25; 246-246	1.384	1.203
52	22.50	5:3	<b>089</b>	0.4988	234-26	0.051	0.044
53	22.66	5:2	<b>090 101</b>	0.5023	235-24; 245-25	1.121	0.974
54	22.86	5:2	<b>079 099 113</b>	0.5068	34-35; 245-24; 236-35	0.351	0.305
55	23.14	5:2 6:4	<b>119 150</b>	0.5130	246-34; 236-246	0.011	0.010
56	23.23	5:2	<b>078 083 112 108</b>	0.5150	345-3; 235-23; 2356-3; 2346-3	0.102	0.088
57	23.44	5:2 6:4	<b>097 152 086</b>	0.5196	245-23; 2356-26; 2345-2	0.375	0.326
58	23.61	5:2	<b>081 087 117 125 115 145</b>	0.5234	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.756	0.657
59	23.77	5:2	<b>116 085 111</b>	0.5269	23456; 234-24; 235-35	0.335	0.291
60	23.87	6:4	<b>120 136</b>	0.5292	245-35; 236-236	0.451	0.354
61	24.02	5:2	<b>077 110 148</b>	0.5325	34-34; 236-34; 235-246	1.221	1.061
62	24.29	6:3	<b>154</b>		245-246	-	-
63	24.39	5:2	<b>082</b>	0.5407	234-23	0.258	0.224
64	24.67	6:3	<b>151</b>	0.5469	2356-25	1.032	0.811
65	24.81	5:1 6:3	<b>124 135</b>	0.5500	345-25; 235-236	0.169	0.137
66	24.87	6:3	<b>144</b>	0.5513	2346-25	0.363	0.285
67	24.95	5:1 6:3	<b>107 109 147</b>	0.5531	234-35; 235-34; 2356-24	0.065	0.055
68	25.04	5:1	<b>123</b>	0.5551	345-24	0.006	0.005
69	25.11	5:1 6:3	<b>106 118 139 149</b>	0.5566	2345-3; 245-34; 2346-24; 236-245	2.264	1.902
70	25.24	6:3	<b>140</b>		234-246	-	-
71	25.49	5:1 6:3	<b>114 134 143</b>	0.5651	2345-4; 2356-23; 2345-26	0.083	0.068
72	25.67	5:1 6:3	<b>122 131 133 142</b>	0.5691	345-23; 2346-23; 235-235; 23456-2	0.029	0.024
73	25.98	6:2	<b>146 165 188</b>	0.5759	235-245; 2356-35; 2356-246	0.220	0.173
74	26.11	5:1 6:3	<b>105 132 161</b>	0.5788	234-34; 234-236; 2346-35	0.716	0.584
75	26.24	6:2	<b>153</b>	0.5817	245-245	1.710	1.344
76	26.37	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	<b>141</b>	0.5932	2345-25	0.680	0.534
78	26.80	7:4	<b>179</b>	0.5941	2356-236	1.153	0.827
79	27.03	6:2	<b>137</b>	0.5992	2345-24	0.023	0.018
80	27.15	6:2 7:4	<b>130 176</b>	0.6019	234-235; 2346-236	0.154	0.121
82	27.38	6:2	<b>138 163 164</b>	0.6070	234-245; 2356-34; 236-345	1.515	1.191
83	27.55	6:2	<b>158 160 186</b>	0.6107	2346-34; 23456-3; 23456-26	0.156	0.122
84	27.73	6:2	<b>126 129</b>	0.6147	345-34; 2345-23	0.010	0.008
85	28.06	7:3	<b>166 178</b>	0.6220	23456-4; 2356-235	0.696	0.499
87	28.35	7:3	<b>175 159</b>	0.6285	2346-235; 2345-35	0.119	0.086
88	28.49	7:3	<b>182 187</b>	0.6316	2345-246; 2356-245	2.190	1.572
89	28.61	6:2	<b>128 162</b>	0.6342	234-234; 235-345	0.056	0.044
90	28.78	7:3	<b>183</b>	0.6380	2346-245	1.012	0.726
91	29.07	6:1	<b>167</b>	0.6444	245-345	0.025	0.019
92	29.36	7:3	<b>185</b>	0.6509	23456-25	0.289	0.208
93	29.71	7:3	<b>174 181</b>	0.6586	2345-236; 23456-24	1.915	1.377
94	29.97	7:3	<b>177</b>	0.6644	2356-234	1.038	0.747
95	30.27	6:1 7:3	<b>156 171</b>	0.6710	2345-34; 2346-234	0.449	0.333
96	30.50	8:4	<b>157 202</b>	0.6761	234-345; 2356-2356	0.045	0.030
98	30.68	7:3	<b>173</b>	0.6801	23456-23	0.023	0.016
99	31.02	8:4	<b>201</b>	0.6877	2346-2356	0.242	0.160
100	31.26	7:2	<b>172 204</b>	0.6930	2345-235; 23456-246	0.327	0.234
101	31.53	8:4	<b>192 197</b>	0.6990	23456-35; 2346-2346	0.052	0.034
102	31.72	7:2	<b>180</b>	0.7032	2345-245	3.570	2.561
103	31.95	7:2	<b>193</b>	0.7083	2356-345	0.276	0.198
104	32.24	7:2	<b>191</b>	0.7147	2346-345	0.060	0.043

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	32.56	8:4	<b>200</b> 169	0.7218	23456-236; 345-345	0.257	0.170
106	33.68	7:2	<b>170</b>	0.7466	2345-234	0.739	0.530
107	33.95	7:2	<b>190</b>	0.7526	23456-34	0.254	0.182
108	34.74	8:3	<b>198</b>	0.7701	23456-235	0.068	0.045
109	34.97	8:3	<b>199</b>	0.7752	2345-2356	2.637	1.740
110	35.49	8:3	<b>196</b> <b>203</b>	0.7867	2345-2346; 23456-245	2.641	1.743
111	36.67	7:1	<b>189</b>	0.8129	2345-345	0.016	0.012
112	38.07	8:3	<b>195</b>	0.8439	23456-234	0.329	0.217
113	38.56	9:4	<b>208</b>	0.8548	23456-2356	0.180	0.110
114	39.45	9:4	<b>207</b>	0.8745	23456-2346	0.059	0.036
115	40.81	8:2	<b>194</b>	0.9047	2345-2345	1.076	0.710
116	41.68	8:2	<b>205</b>	0.9240	23456-345	0.064	0.042
117	46.54	9:3	<b>206</b>	1.032	23456-2345	0.424	0.259
118	52.20	10:4	<b>209</b>	1.157	23456-23456	0.016	0.009

Concentration = 117 ng/mL

Total Nanomoles = 0.413

Average Molecular Weight = 283.6

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169



Sample Name: CCCS0923A Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/24/2009 05:52:46 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 09/24/2009 07:38:04  
Sample Set Name: GC24\_092309c User Name: Janelle Gonyea  
Processing Method: CSGB\_LL1X\_090509 Current Time: 08:58:47  
Run Time: 60 Minutes Current Date: 11/01/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-176-7

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.51	1699	7.517	7.517
2	4 (3)	12.62	536	4.737	4.737
3	5 (4,10)	13.21	1107	2.077	2.077
4	6 (7,9)	14.06	2709	0.722	0.722
5	7 (6)	14.36	2139	1.210	1.210
6	8 (5,8)	14.55	8924	9.249	9.249
7	10 (19)	15.17	694	0.244	0.244
8	13 (12,13)	15.92	388	0.162	0.162
9	14 (15,18)	16.02	7898	2.846	2.846
10	15 (17)	16.10	4766	2.645	2.645
11	16 (24,27)	16.40	987	0.208	0.208
12	17 (16,32)	16.65	7478	2.896	2.896
13	19 (23,34,54)	17.11	32	0.010	0.010
14	20 (29)	17.29	129	0.030	0.030
15	21 (26)	17.41	1880	0.577	0.577
16	22 (25)	17.50	1086	0.236	0.236
17	23 (31)	17.69	10921	2.848	2.848
18	24 (28,50)	17.74	14280	2.923	2.923
19	25 (20,21,33,53)	18.09	10041	2.836	2.836
20	26 (22,51)	18.32	6601	1.935	1.935
21	27 (45)	18.53	2589	0.660	0.660
22	29 (46)	18.81	1039	0.304	0.304
23	31 (52,69,73)	19.10	10686	3.812	3.812
24	32 (43,49)	19.27	8823	1.586	1.586
25	33 (38,47)	19.38	3860	0.482	0.482
26	34 (48,75)	19.44	4114	0.694	0.694
27	36 (35)	19.70	23	0.010	0.010
28	37 (104,44)	19.83	12904	2.977	2.977
29	38 (37,42,59)	19.96	7783	2.147	2.147
30	39 (41,64,71,72)	20.30	14623	2.605	2.605
31	41 (68,96)	20.46	200	0.059	0.059
32	42 (40)	20.56	3342	0.692	0.692
33	43 (57,103)	20.82	135	0.028	0.028

34	44 (58,67,100)	20.99	522	0.084	0.084
35	45 (63)	21.15	757	0.122	0.122
36	46 (74,94,61)	21.32	7864	0.957	0.957
37	47 (70)	21.45	14872	2.253	2.253
38	48 (66,76,98,80,93,95,	21.57	20107	4.502	4.502
39	49 (55,91,121)	21.85	1874	0.347	0.347
40	50 (56,60)	22.17	13512	2.010	2.010
41	51 (84,92,155)	22.39	4110	1.544	1.544
42	52 (89)	22.50	331	0.060	0.060
43	53 (90,101)	22.66	7396	1.303	1.303
44	54 (79,99,113)	22.85	3561	0.404	0.404
45	55 (119,150)	23.13	153	0.012	0.012
46	56 (78,83,112,108)	23.22	614	0.122	0.122
47	57 (97,152,86)	23.43	3158	0.424	0.424
48	58 (81,87,117,125,115	23.60	5493	0.886	0.886
49	59 (116,85,111)	23.76	2897	0.370	0.370
50	60 (120,136)	23.87	2243	0.499	0.499
51	61 (77,110,148)	24.01	8858	1.410	1.410
52	63 (82)	24.37	2685	0.349	0.349
53	64 (151)	24.67	7467	1.200	1.200
54	65 (124,135)	24.80	2089	0.205	0.205
55	66 (144)	24.86	1753	0.419	0.419
56	67 (107,109,147)	24.94	498	0.079	0.079
57	68 (123)	25.03	104	0.016	0.016
58	69 (106,118,139,149)	25.11	17977	2.580	2.580
59	71 (114,134,143)	25.50	979	0.145	0.145
60	72 (122,131,133,142)	25.70	173	0.016	0.016
61	73 (146,165,188)	25.97	1985	0.265	0.265
62	74 (105,132,161)	26.09	7853	0.869	0.869
63	75 (153)	26.24	16302	1.915	1.915
64	77 (141)	26.74	5844	1.127	1.127
65	78 (179)	26.80	7109	1.074	1.074
66	79 (137)	27.01	247	0.039	0.039
67	80 (130,176)	27.14	2494	0.178	0.178
68	82 (138,163,164)	27.37	13970	1.749	1.749
69	83 (158,160,186)	27.54	1581	0.174	0.174
70	84 (126,129)	27.73	305	0.014	0.014
71	85 (166,178)	28.06	3493	0.811	0.811
72	87 (175,159)	28.35	663	0.141	0.141
73	88 (182,187)	28.48	19553	2.518	2.518
74	89 (128,162)	28.60	829	0.064	0.064
75	90 (183)	28.78	8821	1.156	1.156
76	91 (167)	29.03	152	0.022	0.022
77	92 (185)	29.35	3772	0.335	0.335
78	93 (174,181)	29.71	16871	2.197	2.197
79	94 (177)	29.96	8209	1.181	1.181
80	95 (156,171)	30.25	4006	0.537	0.537
81	96 (157,202)	30.49	2834	0.052	0.052
82	98 (173)	30.66	305	0.031	0.031
83	99 (201)	31.01	1969	0.276	0.276
84	100 (172,204)	31.25	2522	0.368	0.368

85	101 (192,197)	31.52	415	0.066	0.066
86	102 (180)	31.71	36712	4.102	4.102
87	103 (193)	31.94	2186	0.275	0.275
88	104 (191)	32.23	495	0.067	0.067
89	105 (200,169)	32.55	2545	0.308	0.308
90	106 (170)	33.66	11936	0.842	0.842
91	107 (190)	33.92	3626	0.289	0.289
92	108 (198)	34.74	996	0.083	0.083
93	109 (199)	34.96	16497	3.033	3.033
94	110 (196,203)	35.48	18045	3.020	3.020
95	111 (189)	36.60	227	0.020	0.020
96	112 (195)	38.06	6064	0.366	0.366
97	113 (208)	38.54	1232	0.196	0.196
98	114 (207)	39.42	863	0.072	0.072
99	115 (194)	40.79	16583	1.248	1.248
100	116 (205)	41.64	805	0.080	0.080
101	117 (206)	46.52	6877	0.533	0.533
102	118 (209)	52.29	49	0.004	0.004
103	Sum			115.984	115.984



Sample Name: CCCS0923B Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 09/24/2009 12:12:33 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 09/24/2009 13:34:27  
Sample Set Name: GC24\_092309c User Name: Janelle Gonyea  
Processing Method: CSGB\_LL1X\_090509 Current Time: 08:58:49  
Run Time: 60 Minutes Current Date: 11/01/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-176-16

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.51	1615	7.290	7.290
2	4 (3)	12.64	495	4.475	4.475
3	5 (4,10)	13.21	1087	2.083	2.083
4	6 (7,9)	14.07	2663	0.725	0.725
5	7 (6)	14.37	2049	1.184	1.184
6	8 (5,8)	14.56	8946	9.468	9.468
7	10 (19)	15.17	626	0.225	0.225
8	13 (12,13)	15.95	265	0.112	0.112
9	14 (15,18)	16.02	7743	2.849	2.849
10	15 (17)	16.11	5206	2.952	2.952
11	16 (24,27)	16.41	944	0.204	0.204
12	17 (16,32)	16.66	7478	2.956	2.956
13	19 (23,34,54)	17.13	72	0.023	0.023
14	20 (29)	17.31	119	0.028	0.028
15	21 (26)	17.43	1728	0.541	0.541
16	22 (25)	17.51	1110	0.247	0.247
17	23 (31)	17.70	9889	2.628	2.628
18	24 (28,50)	17.75	15114	3.163	3.163
19	25 (20,21,33,53)	18.10	9846	2.839	2.839
20	26 (22,51)	18.33	6629	1.984	1.984
21	27 (45)	18.54	2616	0.681	0.681
22	29 (46)	18.81	1010	0.301	0.301
23	31 (52,69,73)	19.11	10711	3.901	3.901
24	32 (43,49)	19.28	8869	1.628	1.628
25	33 (38,47)	19.39	3723	0.475	0.475
26	34 (48,75)	19.45	4349	0.749	0.749
27	36 (35)	19.65	30	0.013	0.013
28	37 (104,44)	19.84	12768	3.008	3.008
29	38 (37,42,59)	19.97	7703	2.169	2.169
30	39 (41,64,71,72)	20.31	14577	2.651	2.651
31	41 (68,96)	20.46	244	0.074	0.074
32	42 (40)	20.57	3320	0.702	0.702
33	43 (57,103)	20.83	120	0.026	0.026

34	44 (58,67,100)	21.01	436	0.071	0.071
35	45 (63)	21.17	673	0.111	0.111
36	46 (74,94,61)	21.33	7593	0.943	0.943
37	47 (70)	21.46	14649	2.265	2.265
38	48 (66,76,98,80,93,95,	21.58	20209	4.621	4.621
39	49 (55,91,121)	21.86	1936	0.366	0.366
40	50 (56,60)	22.18	13333	2.024	2.024
41	51 (84,92,155)	22.40	4226	1.622	1.622
42	52 (89)	22.50	319	0.059	0.059
43	53 (90,101)	22.66	7300	1.313	1.313
44	54 (79,99,113)	22.86	3545	0.411	0.411
45	55 (119,150)	23.14	161	0.013	0.013
46	56 (78,83,112,108)	23.23	589	0.119	0.119
47	57 (97,152,86)	23.44	3205	0.439	0.439
48	58 (81,87,117,125,115	23.61	5385	0.886	0.886
49	59 (116,85,111)	23.77	3014	0.392	0.392
50	60 (120,136)	23.87	2323	0.528	0.528
51	61 (77,110,148)	24.02	8803	1.430	1.430
52	63 (82)	24.39	2287	0.303	0.303
53	64 (151)	24.67	7370	1.209	1.209
54	65 (124,135)	24.81	1982	0.198	0.198
55	66 (144)	24.87	1741	0.425	0.425
56	67 (107,109,147)	24.95	467	0.076	0.076
57	68 (123)	25.04	44	0.007	0.007
58	69 (106,118,139,149)	25.11	18095	2.652	2.652
59	71 (114,134,143)	25.49	644	0.097	0.097
60	72 (122,131,133,142)	25.67	347	0.033	0.033
61	73 (146,165,188)	25.98	1888	0.257	0.257
62	74 (105,132,161)	26.11	7434	0.839	0.839
63	75 (153)	26.24	16697	2.004	2.004
64	77 (141)	26.76	4061	0.797	0.797
65	78 (179)	26.80	8718	1.351	1.351
66	79 (137)	27.03	173	0.027	0.027
67	80 (130,176)	27.15	2479	0.181	0.181
68	82 (138,163,164)	27.38	13885	1.775	1.775
69	83 (158,160,186)	27.55	1621	0.182	0.182
70	84 (126,129)	27.73	249	0.012	0.012
71	85 (166,178)	28.06	3440	0.815	0.815
72	87 (175,159)	28.35	646	0.140	0.140
73	88 (182,187)	28.49	19514	2.566	2.566
74	89 (128,162)	28.61	835	0.066	0.066
75	90 (183)	28.78	8858	1.186	1.186
76	91 (167)	29.07	194	0.029	0.029
77	92 (185)	29.36	3727	0.338	0.338
78	93 (174,181)	29.71	16864	2.243	2.243
79	94 (177)	29.97	8274	1.216	1.216
80	95 (156,171)	30.27	3843	0.526	0.526
81	96 (157,202)	30.50	2803	0.053	0.053
82	98 (173)	30.68	256	0.027	0.027
83	99 (201)	31.02	1981	0.284	0.284
84	100 (172,204)	31.26	2572	0.383	0.383

85	101 (192,197)	31.53	376	0.061	0.061
86	102 (180)	31.72	36650	4.182	4.182
87	103 (193)	31.95	2520	0.324	0.324
88	104 (191)	32.24	505	0.070	0.070
89	105 (200,169)	32.56	2438	0.301	0.301
90	106 (170)	33.68	12020	0.866	0.866
91	107 (190)	33.95	3650	0.297	0.297
92	108 (198)	34.74	931	0.079	0.079
93	109 (199)	34.97	16459	3.090	3.090
94	110 (196,203)	35.49	18100	3.094	3.094
95	111 (189)	36.67	216	0.019	0.019
96	112 (195)	38.07	6265	0.386	0.386
97	113 (208)	38.56	1302	0.211	0.211
98	114 (207)	39.45	805	0.069	0.069
99	115 (194)	40.81	16409	1.260	1.260
100	116 (205)	41.68	738	0.075	0.075
101	117 (206)	46.54	6278	0.497	0.497
102	118 (209)	52.20	216	0.019	0.019
103	Sum			117.165	117.165

# QC Sample Raw Data

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09090294
ELAP ID No:	11078	LRF ID:	CEBLK-74
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-74(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM17250B
% Moisture:	100	Lab File ID:	GC16-799-1
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	09/23/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	09/23/2009 12:46
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 187559

Percent Recovery (50 - 150 %):

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

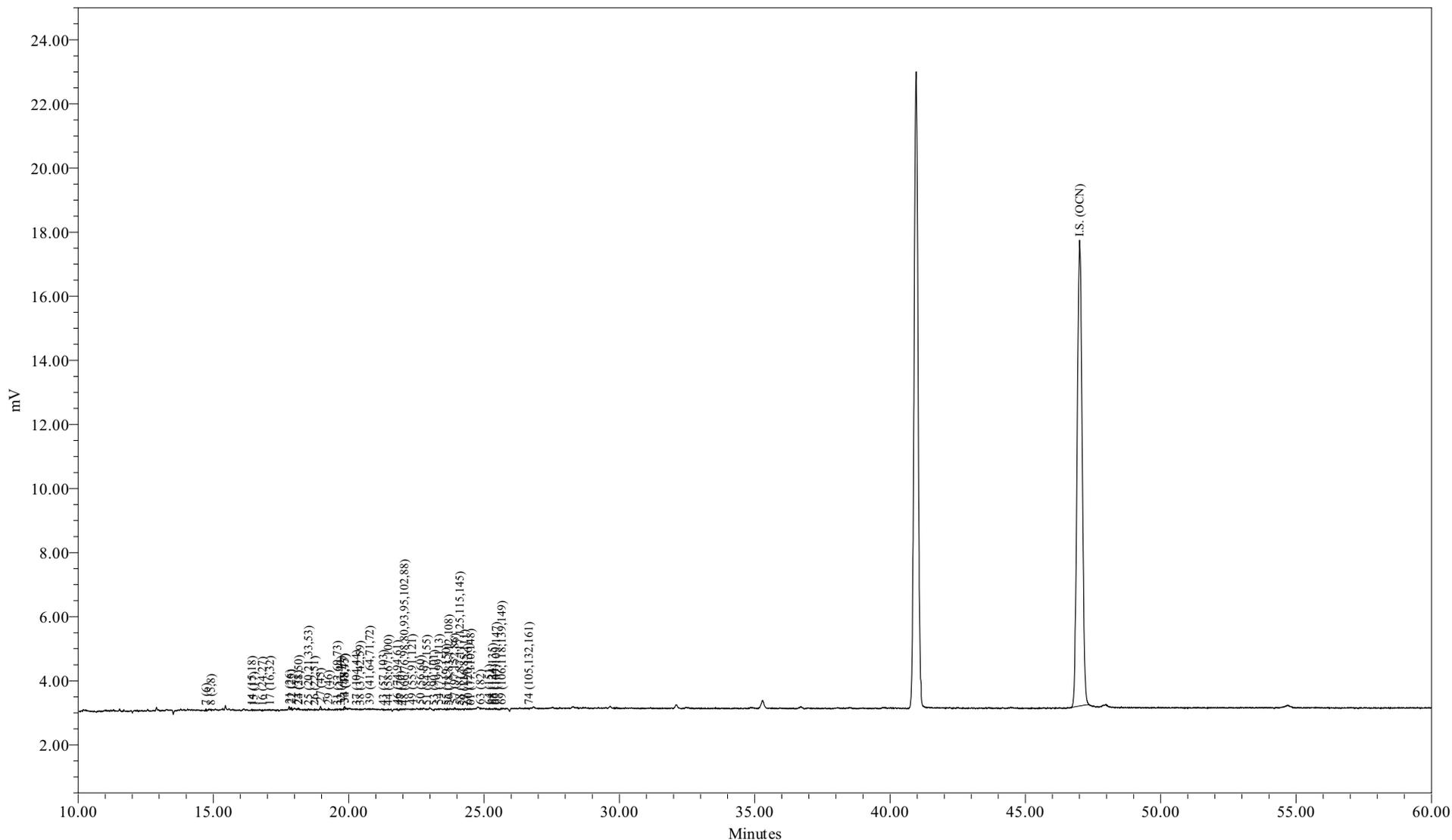
Visual Aroclor ID: No Aroclor Pattern Detected



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM17250B  
Sample ID: METHOD BLANK  
Date Acquired: 9/23/2009 12:46:26 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB LL1X 082309  
LIMS File ID: GC16-799-1

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/23/2009 12:46:26  
 Lab Sample ID: AM17250B  
 LRF ID: CEBLK-74  
 Lab File ID: GC16-799-1

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <9.10 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	0.00	0.00
Tri	46.66	50.29
Tetra	43.52	41.36
Penta	9.82	8.35
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001		0	
A1242	23+24/31+28		0	
A1254SED	61/100	0.0517	100	
A1254BIO	69+75+82/149+153+138			
A1260	102/180		0	
A1268	115/194		0	

Ortho Cl / biphenyl Residue = 1.99

Meta + Para Cl / biphenyl Residue = 1.59

Total Cl / biphenyl Residue = 3.58

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/23/2009 12:46:26  
 Lab Sample ID: AM17250B  
 LRF ID: CEBLK-74  
 Lab File ID: GC16-799-1

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7				0.529	2.19	U
3	12.83	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.55	223.1				0.134	0.621	U
6	14.41	223.1				0.0721	0.219	U
7	14.72	223.1	120			0.158	0.347	U
8	14.92	223.1	48			0.542	2.56	U
9	15.48	223.1				0.294	25.0	U
10	15.56	257.5				0.0604	0.102	U
11	16.03	257.5				0.198	25.0	U
12	16.09	223.1				0.306	25.0	U
13	16.29	223.1				0.0559	0.0975	U
14	16.42	249.0	44			0.128	0.676	U
15	16.49	257.5	23			0.143	0.676	U
16	16.81	257.5	48	0.0424	0.165	0.0374	0.0475	J
17	17.09	257.5	36			0.166	0.713	U
19	17.53	267.9				0.128	25.0	U
20	17.71	257.5				0.0108	0.0194	U
21	17.81	257.5	97	0.129	0.502	0.0606	0.132	J
22	17.89	257.5	133	0.0932	0.362	0.0426	0.0585	
23	18.13	257.5	86			0.487	0.753	U
24	18.15	257.5	60			0.211	0.964	U
25	18.51	259.5	121			0.105	0.726	U
26	18.74	258.7	59			0.120	0.530	U
27	18.96	292.0	252	0.247	0.846	0.0367	0.163	
28	19.12	257.5				0.375	25.0	U
29	19.25	292.0	54			0.127	0.127	U
30	19.39	257.5				0.120	25.0	U
31	19.58	292.0	81			0.204	0.872	U
32	19.71	292.0	32			0.0978	0.420	U
33	19.84	292.0	205			0.0656	0.183	U
34	19.86	292.0	137			0.0579	0.183	U
35	20.04	292.0				0.205	25.0	U
36	20.13	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.28	292.0	43			0.160	0.786	U
38	20.42	272.4	40			0.115	0.475	U
39	20.77	292.0	32			0.121	0.749	U
41	20.93	326.4				0.115	25.0	U
42	21.03	292.0				0.0968	0.172	U
43	21.27	298.9	37			0.152	25.0	U
44	21.46	298.9	15			0.0225	0.0402	U
45	21.62	292.0				0.0299	0.0384	U
46	21.79	292.0	20			0.0821	0.347	U
47	21.91	292.0	58			0.164	0.621	U
48	22.06	293.5	34			0.243	1.32	U
49	22.35	324.7	27			0.0376	0.0932	U
50	22.66	292.0	42			0.359	0.640	U
51	22.88	326.4	12			0.0888	0.329	U
52	22.98	326.4				0.0384	0.0384	U
53	23.15	326.4	23			0.0691	0.329	U
54	23.33	326.4	16			0.101	0.135	U
55	23.61	326.4	31	0.00749	0.0230	0.00644	0.0102	J
56	23.69	326.4	12			0.0647	0.0647	U
57	23.91	326.4	64	0.0482	0.148	0.0435	0.102	J
58	24.10	326.4	49			0.0841	0.212	U
59	24.26	326.4	22			0.0484	0.128	U
60	24.40	360.9	16			0.0772	0.137	U
61	24.50	326.4	20			0.0668	0.389	U
62	24.79	360.9				0.113	25.0	U
63	24.87	326.4	16			0.0201	0.0804	U
64	25.18	360.9	23			0.0518	0.311	U
65	25.31	350.5	10			0.0149	0.0530	U
66	25.39	360.9	24			0.0541	0.110	U
67	25.45	336.8	16			0.0348	0.0475	U
68	25.53	326.4				0.125	25.0	U
69	25.65	337.5	56			0.0938	0.731	U
70	25.74	360.9				0.0829	25.0	U
71	26.04	347.8				0.0348	0.0369	U
72	26.23	336.8				0.00638	0.0106	U
73	26.52	360.9				0.0320	0.0713	U
74	26.66	347.8	19			0.0721	0.248	U
75	26.82	360.9				0.109	0.538	U
76	26.93	360.9				0.107	25.0	U
77	27.35	360.9				0.0637	0.311	U
78	27.42	395.3				0.0470	0.267	U
79	27.65	360.9				0.0501	0.0501	U
80	27.80	360.9				0.0151	0.0475	U
82	28.02	360.9				0.108	0.493	U
83	28.21	360.9				0.0450	0.0457	U
84	28.42	360.9				0.00310	0.00473	U
85	28.77	395.3				0.0677	0.201	U
87	29.08	395.3				0.0156	0.0731	U
88	29.22	395.3				0.102	0.658	U
89	29.35	360.9				0.0199	0.0366	U
90	29.53	395.3				0.0679	0.311	U
91	29.83	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.0225	0.0859	U
93	30.53	394.3				0.102	0.585	U
94	30.81	394.3				0.0936	0.311	U
95	31.11	382.2				0.0871	0.144	U
96	31.38	429.8				0.00942	0.0121	U
98	31.55	395.3				0.0133	0.0139	U
99	31.92	429.8				0.0863	0.0863	U
100	32.18	395.3				0.127	0.127	U
101	32.48	429.8				0.217	0.217	U
102	32.67	395.3				0.150	1.11	U
103	32.92	395.3				0.0640	0.0768	U
104	33.23	395.3				0.0374	0.0438	U
105	33.58	429.8				0.0460	0.0786	U
106	34.76	395.3				0.0538	0.234	U
107	35.04	395.3				0.0213	0.0768	U
108	35.92	429.8				0.0324	0.0438	U
109	36.16	429.8				0.116	0.768	U
110	36.71	429.8				0.184	0.786	U
111	37.90	395.3				0.0231	0.0231	U
112	39.49	429.8				0.0368	0.101	U
113	40.01	464.2				0.0438	0.0903	U
114	40.97	464.2				0.0154	0.0340	U
115	42.42	429.8				0.0969	0.329	U
116	43.32	429.8				0.0838	0.0838	U
117	48.57	464.2				0.0384	0.124	U
118	54.73	498.6				0.0126	0.0126	U

Total Concentration = <9.10 ng/L 9.10 32.2 U

Total Nanomoles = 0.002

Average Molecular Weight = 277.5

Number of Calibrated Peaks Found = 45

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 187558.9

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/23/2009 12:46:26  
 Lab Sample ID: AM17250B  
 LRF ID: CEBLK-74  
 Lab File ID: GC16-799-1

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	2		-	-
3	12.83	1:0	002	3		-	-
4	12.93	1:0	003	4		-	-
5	13.55	2:2	004 010	2-2; 26		-	-
6	14.41	2:1	007 009	24; 25		-	-
7	14.72	2:1	006	2-3		-	-
8	14.92	2:1	005 008	23; 2-4		-	-
9	15.48	2:0	014	35		-	-
10	15.56	3:3	019	26-2		-	-
11	16.03	3:2	030	246		-	-
12	16.09	2:0	011	3-3		-	-
13	16.29	2:0	012 013	34; 3-4		-	-
14	16.42	2:0 3:2	015 018	4-4; 25-2		-	-
15	16.49	3:2	017	24-2		-	-
16	16.81	3:2	024 027	0.3577 236; 26-3		7.474	8.055
17	17.09	3:2	016 032	23-2; 26-4		-	-
19	17.53	3:1 4:4	023 034 054	235; 35-2; 26-26		-	-
20	17.71	3:1	029	245		-	-
21	17.81	3:1	026	0.3789 25-3		22.762	24.532
22	17.89	3:1	025	0.3806 24-3		16.421	17.698
23	18.13	3:1	031	25-4		-	-
24	18.15	3:1 4:3	028 050	24-4; 246-2		-	-
25	18.51	3:1 4:3	020 021 033 053	23-3; 234; 34-2; 25-26		-	-
26	18.74	3:1 4:3	022 051	23-4; 24-26		-	-
27	18.96	4:3	045	0.4034 236-2		43.521	41.363
28	19.12	3:0	036	35-3		-	-
29	19.25	4:3	046	23-26		-	-
30	19.39	3:0	039	35-4		-	-
31	19.58	4:2	052 069 073	25-25; 246-3; 26-35		-	-
32	19.71	4:2	043 049	235-2; 24-25		-	-
33	19.84	4:2	038 047	345; 24-24		-	-
34	19.86	4:2	048 075	245-2; 246-4		-	-
35	20.04	4:2	062 065	2346; 2356		-	-
36	20.13	3:0	035	34-3		-	-
37	20.28	5:4 4:2	104 044	246-26; 23-25		-	-
38	20.42	3:0 4:2	037 042 059	34-4; 23-24; 236-3		-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.77	4:2	<b>041 064 071 072</b>		234-2; 236-4; 26-34; 25-35	-	-
41	20.93	5:4	<b>068 096</b>		24-35; 236-26	-	-
42	21.03	4:2	<b>040</b>		23-23	-	-
43	21.27	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.46	4:1 5:3	<b>058 067 100</b>		23-35; 245-3; 246-24	-	-
45	21.62	4:1	<b>063</b>		235-4	-	-
46	21.79	4:1 5:3	<b>074 094 061</b>		245-4; 235-26; 2345	-	-
47	21.91	4:1	<b>070</b>		25-34	-	-
48	22.06	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.35	4:1 5:3	<b>055 091 121</b>		234-3; 236-24; 246-35	-	-
50	22.66	4:1	<b>056 060</b>		23-34; 234-4	-	-
51	22.88	5:3 6:4	<b>084 092 155</b>		236-23; 235-25; 246-246	-	-
52	22.98	5:3	<b>089</b>		234-26	-	-
53	23.15	5:2	<b>090 101</b>		235-24; 245-25	-	-
54	23.33	5:2	<b>079 099 113</b>		34-35; 245-24; 236-35	-	-
55	23.61	5:2 6:4	<b>119 150</b>	0.5023	246-34; 236-246	1.320	1.123
56	23.69	5:2	<b>078 083 112 108</b>		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.91	5:2 6:4	<b>097 152 086</b>	0.5087	245-23; 2356-26; 2345-2	8.501	7.228
58	24.10	5:2	<b>081 087 117 125 115 145</b>		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.26	5:2	<b>116 085 111</b>		23456; 234-24; 235-35	-	-
60	24.40	6:4	<b>120 136</b>		245-35; 236-236	-	-
61	24.50	5:2	<b>077 110 148</b>		34-34; 236-34; 235-246	-	-
62	24.79	6:3	<b>154</b>		245-246	-	-
63	24.87	5:2	<b>082</b>		234-23	-	-
64	25.18	6:3	<b>151</b>		2356-25	-	-
65	25.31	5:1 6:3	<b>124 135</b>		345-25; 235-236	-	-
66	25.39	6:3	<b>144</b>		2346-25	-	-
67	25.45	5:1 6:3	<b>107 109 147</b>		234-35; 235-34; 2356-24	-	-
68	25.53	5:1	<b>123</b>		345-24	-	-
69	25.65	5:1 6:3	<b>106 118 139 149</b>		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.74	6:3	<b>140</b>		234-246	-	-
71	26.04	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.66	5:1 6:3	<b>105 132 161</b>		234-34; 234-236; 2346-35	-	-
75	26.82	6:2	<b>153</b>		245-245	-	-
76	26.93	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	<b>141</b>		2345-25	-	-
78	27.42	7:4	<b>179</b>		2356-236	-	-
79	27.65	6:2	<b>137</b>		2345-24	-	-
80	27.80	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	28.02	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.77	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	29.08	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.22	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.35	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.53	7:3	<b>183</b>		2346-245	-	-
91	29.83	6:1	<b>167</b>		245-345	-	-
92	30.15	7:3	<b>185</b>		23456-25	-	-
93	30.53	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.81	7:3	<b>177</b>		2356-234	-	-
95	31.11	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.38	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.55	7:3	<b>173</b>		23456-23	-	-
99	31.92	8:4	<b>201</b>		2346-2356	-	-
100	32.18	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.48	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.67	7:2	<b>180</b>		2345-245	-	-
103	32.92	7:2	<b>193</b>		2356-345	-	-
104	33.23	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.58	8:4	<b>200</b> 169		23456-236; 345-345	-	-
106	34.76	7:2	<b>170</b>		2345-234	-	-
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196</b> 203		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = <9.10 ng/L

Total Nanomoles = 0.002

Average Molecular Weight = 277.5

Number of Calibrated Peaks Found = 45

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

DB-1 Peak	Resolved Congener (IUPAC #)
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> ,102,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> ,110,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

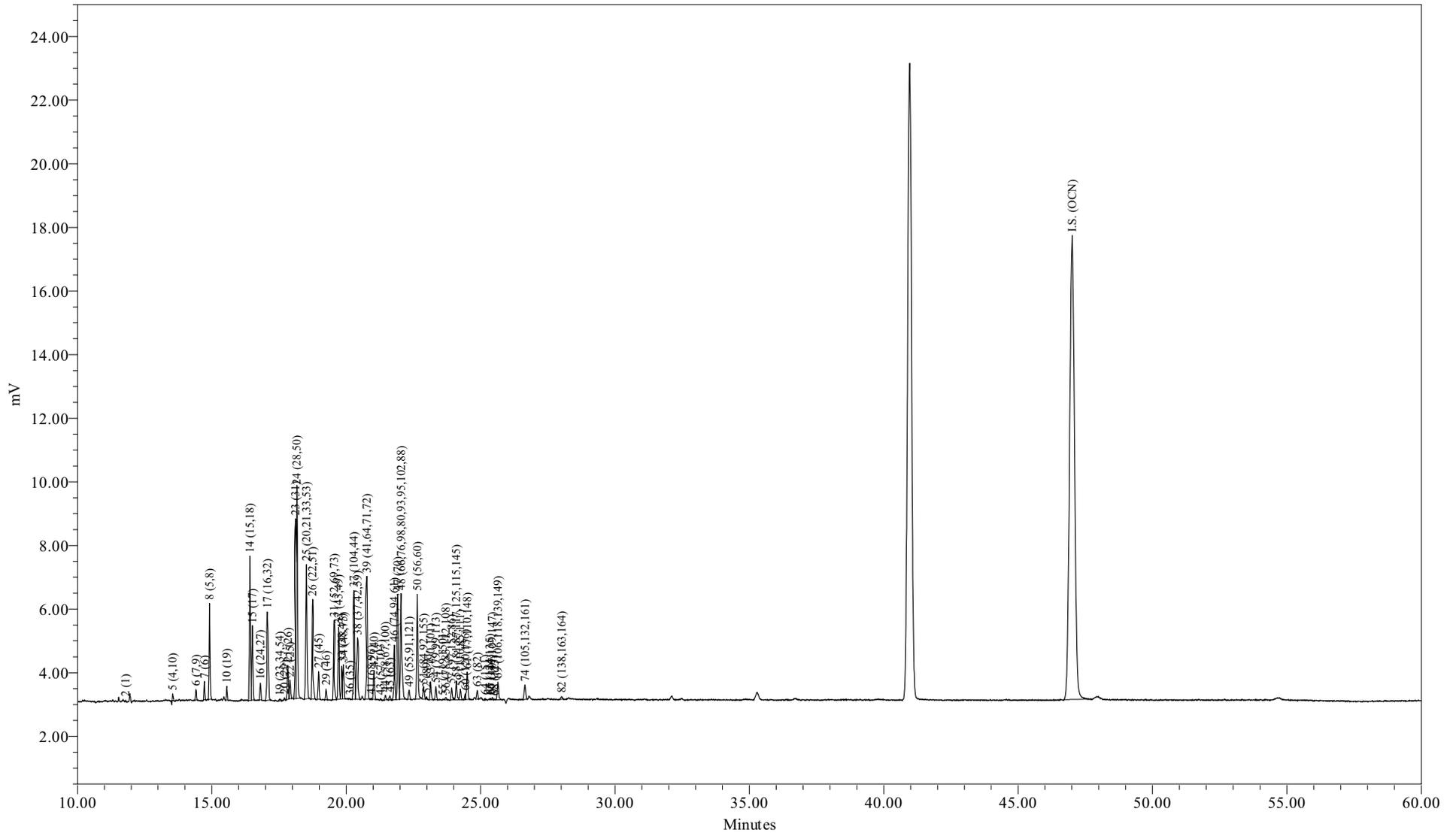
Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09090294
ELAP ID No:	11078	LRF ID:	LCS-74
Matrix:	ORGANIC FREE WATER	Client ID:	LCS-74(LAB CONTROL SPIKE)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM17250L
% Moisture:	100	Lab File ID:	GC16-799-2
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	09/23/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	09/23/2009 13:53
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 186361

Percent Recovery (50 - 150 %):

SAMPLE TOTAL PCB CONCENTRATION: 239 ng/L

Visual Aroclor ID: PCB Added to Sample



Sample Name: AM17250L  
Sample ID: LAB CONTROL SPIKE  
Date Acquired: 9/23/2009 1:53:53 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB LL1X 082309  
LIMS File ID: GC16-799-2

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/23/2009 13:53:53  
 Lab Sample ID: AM17250L  
 LRF ID: LCS-74  
 Lab File ID: GC16-799-2

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 239 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	17.23	20.12
Tri	47.61	48.62
Tetra	29.72	26.90
Penta	4.92	3.97
Hexa	0.53	0.40
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	0.3285	0.995	1.02
A1242	23+24/31+28	30.5937	92.7	95.2
A1254SED	61/100	2.0878	6.32	
A1254BIO	69+75+82/149+153+138	1.2203		3.80
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.44

Meta + Para Cl / biphenyl Residue = 1.72

Total Cl / biphenyl Residue = 3.16

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/23/2009 13:53:53  
 Lab Sample ID: AM17250L  
 LRF ID: LCS-74  
 Lab File ID: GC16-799-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.78	188.7	38			0.529	2.19	U
3	12.83	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.54	223.1	466	3.73	16.7	0.134	0.621	
6	14.41	223.1	942	1.04	4.64	0.0721	0.219	
7	14.72	223.1	1248	2.65	11.9	0.158	0.347	
8	14.91	223.1	7220	30.0	135	0.542	2.56	
9	15.48	223.1				0.294	25.0	U
10	15.56	257.5	1048	1.41	5.49	0.0604	0.102	
11	16.03	257.5				0.198	25.0	U
12	16.09	223.1				0.306	25.0	U
13	16.29	223.1				0.0559	0.0975	U
14	16.42	249.0	11901	15.2	61.2	0.128	0.676	
15	16.51	257.5	6309	16.6	64.6	0.143	0.676	
16	16.80	257.5	1423	1.24	4.83	0.0374	0.0475	B
17	17.06	257.5	11626	17.6	68.5	0.166	0.713	
19	17.53	267.9	229	0.281	1.05	0.128	25.0	J
20	17.70	257.5	191	0.137	0.534	0.0108	0.0194	
21	17.83	257.5	3093	3.49	13.6	0.0606	0.132	B
22	17.91	257.5	1670	1.25	4.85	0.0426	0.0585	B
23	18.11	257.5	14640	13.7	53.3	0.487	0.753	
24	18.16	257.5	19788	16.9	65.5	0.211	0.964	
25	18.52	259.5	14109	15.4	59.3	0.105	0.726	
26	18.75	258.7	9302	11.1	42.7	0.120	0.530	
27	18.97	292.0	2448	2.36	8.10	0.0367	0.163	B
28	19.12	257.5				0.375	25.0	U
29	19.25	292.0	924	0.962	3.30	0.127	0.127	
30	19.39	257.5				0.120	25.0	U
31	19.55	292.0	7201	9.69	33.2	0.204	0.872	
32	19.72	292.0	6772	4.68	16.0	0.0978	0.420	
33	19.83	292.0	2860	1.37	4.69	0.0656	0.183	
34	19.90	292.0	3257	2.16	7.41	0.0579	0.183	
35	20.04	292.0				0.205	25.0	U
36	20.13	257.5	58			0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0	9869	8.70	29.8	0.160	0.786	
38	20.42	272.4	7598	8.13	29.9	0.115	0.475	
39	20.77	292.0	11922	8.21	28.1	0.121	0.749	
41	20.93	326.4	65			0.115	25.0	U
42	21.03	292.0	2614	2.15	7.35	0.0968	0.172	
43	21.27	298.9	130			0.152	25.0	U
44	21.46	298.9	527	0.335	1.12	0.0225	0.0402	
45	21.62	292.0	389	0.226	0.774	0.0299	0.0384	
46	21.79	292.0	5331	2.61	8.93	0.0821	0.347	
47	21.92	292.0	10248	6.11	20.9	0.164	0.621	
48	22.04	293.5	12302	10.9	37.1	0.243	1.32	
49	22.34	324.7	950	0.694	2.14	0.0376	0.0932	
50	22.64	292.0	10603	6.34	21.7	0.359	0.640	
51	22.88	326.4	1378	2.08	6.38	0.0888	0.329	
52	22.99	326.4	177	0.119	0.363	0.0384	0.0384	
53	23.14	326.4	1741	1.25	3.83	0.0691	0.329	
54	23.33	326.4	1279	0.579	1.77	0.101	0.135	
55	23.60	326.4	96	0.0243	0.0744	0.00644	0.0102	B
56	23.70	326.4	270	0.196	0.599	0.0647	0.0647	
57	23.92	326.4	1299	0.661	2.03	0.0435	0.102	B
58	24.10	326.4	2079	1.33	4.07	0.0841	0.212	
59	24.25	326.4	1147	0.605	1.85	0.0484	0.128	
60	24.43	360.9	446	0.295	0.817	0.0772	0.137	
61	24.50	326.4	2938	2.09	6.40	0.0668	0.389	
62	24.79	360.9				0.113	25.0	U
63	24.88	326.4	852	0.424	1.30	0.0201	0.0804	
64	25.16	360.9	78			0.0518	0.311	U
65	25.34	350.5	111	0.0299	0.0852	0.0149	0.0530	J
66	25.38	360.9	53	0.0554	0.154	0.0541	0.110	J
67	25.43	336.8	240	0.160	0.475	0.0348	0.0475	
68	25.52	326.4	58			0.125	25.0	U
69	25.64	337.5	2116	1.14	3.37	0.0938	0.731	
70	25.74	360.9				0.0829	25.0	U
71	26.04	347.8				0.0348	0.0369	U
72	26.23	336.8				0.00638	0.0106	U
73	26.52	360.9				0.0320	0.0713	U
74	26.65	347.8	1766	0.773	2.22	0.0721	0.248	
75	26.82	360.9				0.109	0.538	U
76	26.93	360.9				0.107	25.0	U
77	27.35	360.9				0.0637	0.311	U
78	27.42	395.3				0.0470	0.267	U
79	27.65	360.9				0.0501	0.0501	U
80	27.80	360.9				0.0151	0.0475	U
82	28.02	360.9	334			0.108	0.493	U
83	28.21	360.9				0.0450	0.0457	U
84	28.42	360.9				0.00310	0.00473	U
85	28.77	395.3				0.0677	0.201	U
87	29.08	395.3				0.0156	0.0731	U
88	29.22	395.3				0.102	0.658	U
89	29.35	360.9				0.0199	0.0366	U
90	29.53	395.3				0.0679	0.311	U
91	29.83	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.0225	0.0859	U
93	30.53	394.3				0.102	0.585	U
94	30.81	394.3				0.0936	0.311	U
95	31.11	382.2				0.0871	0.144	U
96	31.38	429.8				0.00942	0.0121	U
98	31.55	395.3				0.0133	0.0139	U
99	31.92	429.8				0.0863	0.0863	U
100	32.18	395.3				0.127	0.127	U
101	32.48	429.8				0.217	0.217	U
102	32.67	395.3				0.150	1.11	U
103	32.92	395.3				0.0640	0.0768	U
104	33.23	395.3				0.0374	0.0438	U
105	33.58	429.8				0.0460	0.0786	U
106	34.76	395.3				0.0538	0.234	U
107	35.04	395.3				0.0213	0.0768	U
108	35.92	429.8				0.0324	0.0438	U
109	36.16	429.8				0.116	0.768	U
110	36.71	429.8				0.184	0.786	U
111	37.90	395.3				0.0231	0.0231	U
112	39.49	429.8				0.0368	0.101	U
113	40.01	464.2				0.0438	0.0903	U
114	40.97	464.2				0.0154	0.0340	U
115	42.42	429.8				0.0969	0.329	U
116	43.32	429.8				0.0838	0.0838	U
117	48.57	464.2				0.0384	0.124	U
118	54.73	498.6				0.0126	0.0126	U

Total Concentration = 239 ng/L

9.10

32.2

Total Nanomoles = 0.910

Average Molecular Weight = 263.0

Number of Calibrated Peaks Found = 58

Internal Standard Retention Time = 47.01 minutes

Internal Standard Peak Area = 186361.3

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC090923-BNEA-01  
 Date Acquired: 09/23/2009 13:53:53  
 Lab Sample ID: AM17250L  
 LRF ID: LCS-74  
 Lab File ID: GC16-799-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.78	1:1	001	2		-	-
3	12.83	1:0	002	3		-	-
4	12.93	1:0	003	4		-	-
5	13.54	2:2	004 010	0.2880	2-2; 26	1.560	1.839
6	14.41	2:1	007 009	0.3065	24; 25	0.433	0.511
7	14.72	2:1	006	0.3131	2-3	1.108	1.306
8	14.91	2:1	005 008	0.3172	23; 2-4	12.549	14.794
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019	0.3310	26-2	0.590	0.603
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013		34; 3-4	-	-
14	16.42	2:0 3:2	015 018	0.3493	4-4; 25-2	6.370	6.729
15	16.51	3:2	017	0.3512	24-2	6.957	7.106
16	16.80	3:2	024 027	0.3574	236; 26-3	0.520	0.531
17	17.06	3:2	016 032	0.3629	23-2; 26-4	7.375	7.533
19	17.53	3:1 4:4	023 034 054	0.3729	235; 35-2; 26-26	0.118	0.116
20	17.70	3:1	029	0.3765	245	0.057	0.059
21	17.83	3:1	026	0.3793	25-3	1.459	1.490
22	17.91	3:1	025	0.3810	24-3	0.522	0.534
23	18.11	3:1	031	0.3852	25-4	5.736	5.859
24	18.16	3:1 4:3	028 050	0.3863	24-4; 246-2	7.051	7.202
25	18.52	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	6.429	6.516
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	4.620	4.697
27	18.97	4:3	045	0.4035	236-2	0.988	0.890
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4095	23-26	0.402	0.362
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4159	25-25; 246-3; 26-35	4.052	3.650
32	19.72	4:2	043 049	0.4195	235-2; 24-25	1.955	1.761
33	19.83	4:2	038 047	0.4218	345; 24-24	0.573	0.516
34	19.90	4:2	048 075	0.4233	245-2; 246-4	0.904	0.814
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044	0.4316	246-26; 23-25	3.637	3.276
38	20.42	3:0 4:2	037 042 059	0.4344	34-4; 23-24; 236-3	3.400	3.282

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
39	20.77	4:2	<b>041 064 071 072</b>	0.4418	234-2; 236-4; 26-34; 25-35	3.430	3.090
41	20.93	5:4	<b>068 096</b>		24-35; 236-26	-	-
42	21.03	4:2	<b>040</b>	0.4474	23-23	0.897	0.808
43	21.27	4:1 5:3	<b>057 103</b>		235-3; 246-25	-	-
44	21.46	4:1 5:3	<b>058 067 100</b>	0.4565	23-35; 245-3; 246-24	0.140	0.123
45	21.62	4:1	<b>063</b>	0.4599	235-4	0.094	0.085
46	21.79	4:1 5:3	<b>074 094 061</b>	0.4635	245-4; 235-26; 2345	1.089	0.981
47	21.92	4:1	<b>070</b>	0.4663	25-34	2.553	2.299
48	22.04	4:1 5:3	<b>066 076 098 080 093 095 102 088</b>	0.4688	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.556	4.083
49	22.34	4:1 5:3	<b>055 091 121</b>	0.4752	234-3; 236-24; 246-35	0.290	0.235
50	22.64	4:1	<b>056 060</b>	0.4816	23-34; 234-4	2.649	2.386
51	22.88	5:3 6:4	<b>084 092 155</b>	0.4867	236-23; 235-25; 246-246	0.871	0.702
52	22.99	5:3	<b>089</b>	0.4890	234-26	0.050	0.040
53	23.14	5:2	<b>090 101</b>	0.4922	235-24; 245-25	0.523	0.421
54	23.33	5:2	<b>079 099 113</b>	0.4963	34-35; 245-24; 236-35	0.242	0.195
55	23.60	5:2 6:4	<b>119 150</b>	0.5020	246-34; 236-246	0.010	0.008
56	23.70	5:2	<b>078 083 112 108</b>	0.5041	345-3; 235-23; 2356-3; 2346-3	0.082	0.066
57	23.92	5:2 6:4	<b>097 152 086</b>	0.5088	245-23; 2356-26; 2345-2	0.276	0.223
58	24.10	5:2	<b>081 087 117 125 115 145</b>	0.5127	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.555	0.447
59	24.25	5:2	<b>116 085 111</b>	0.5158	23456; 234-24; 235-35	0.253	0.204
60	24.43	6:4	<b>120 136</b>	0.5197	245-35; 236-236	0.123	0.090
61	24.50	5:2	<b>077 110 148</b>	0.5212	34-34; 236-34; 235-246	0.873	0.703
62	24.79	6:3	<b>154</b>		245-246	-	-
63	24.88	5:2	<b>082</b>	0.5292	234-23	0.177	0.143
64	25.16	6:3	<b>151</b>		2356-25	-	-
65	25.34	5:1 6:3	<b>124 135</b>	0.5390	345-25; 235-236	0.012	0.009
66	25.38	6:3	<b>144</b>	0.5399	2346-25	0.023	0.017
67	25.43	5:1 6:3	<b>107 109 147</b>	0.5409	234-35; 235-34; 2356-24	0.067	0.052
68	25.52	5:1	<b>123</b>		345-24	-	-
69	25.64	5:1 6:3	<b>106 118 139 149</b>	0.5454	2345-3; 245-34; 2346-24; 236-245	0.475	0.370
70	25.74	6:3	<b>140</b>		234-246	-	-
71	26.04	5:1 6:3	<b>114 134 143</b>		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	<b>122 131 133 142</b>		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	<b>146 165 188</b>		235-245; 2356-35; 2356-246	-	-
74	26.65	5:1 6:3	<b>105 132 161</b>	0.5669	234-34; 234-236; 2346-35	0.323	0.244
75	26.82	6:2	<b>153</b>		245-245	-	-
76	26.93	6:2	<b>127 168 184</b>		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	<b>141</b>		2345-25	-	-
78	27.42	7:4	<b>179</b>		2356-236	-	-
79	27.65	6:2	<b>137</b>		2345-24	-	-
80	27.80	6:2 7:4	<b>130 176</b>		234-235; 2346-236	-	-
82	28.02	6:2	<b>138 163 164</b>		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	<b>158 160 186</b>		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	<b>126 129</b>		345-34; 2345-23	-	-
85	28.77	7:3	<b>166 178</b>		23456-4; 2356-235	-	-
87	29.08	7:3	<b>175 159</b>		2346-235; 2345-35	-	-
88	29.22	7:3	<b>182 187</b>		2345-246; 2356-245	-	-
89	29.35	6:2	<b>128 162</b>		234-234; 235-345	-	-
90	29.53	7:3	<b>183</b>		2346-245	-	-
91	29.83	6:1	<b>167</b>		245-345	-	-
92	30.15	7:3	<b>185</b>		23456-25	-	-
93	30.53	7:3	<b>174 181</b>		2345-236; 23456-24	-	-
94	30.81	7:3	<b>177</b>		2356-234	-	-
95	31.11	6:1 7:3	<b>156 171</b>		2345-34; 2346-234	-	-
96	31.38	8:4	<b>157 202</b>		234-345; 2356-2356	-	-
98	31.55	7:3	<b>173</b>		23456-23	-	-
99	31.92	8:4	<b>201</b>		2346-2356	-	-
100	32.18	7:2	<b>172 204</b>		2345-235; 23456-246	-	-
101	32.48	8:4	<b>192 197</b>		23456-35; 2346-2346	-	-
102	32.67	7:2	<b>180</b>		2345-245	-	-
103	32.92	7:2	<b>193</b>		2356-345	-	-
104	33.23	7:2	<b>191</b>		2346-345	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
105	33.58	8:4	<b>200</b> <i>169</i>		23456-236; 345-345	-	-
106	34.76	7:2	<b>170</b>		2345-234	-	-
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196</b> <b>203</b>		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 239 ng/L

Total Nanomoles = 0.910

Average Molecular Weight = 263.0

Number of Calibrated Peaks Found = 58

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

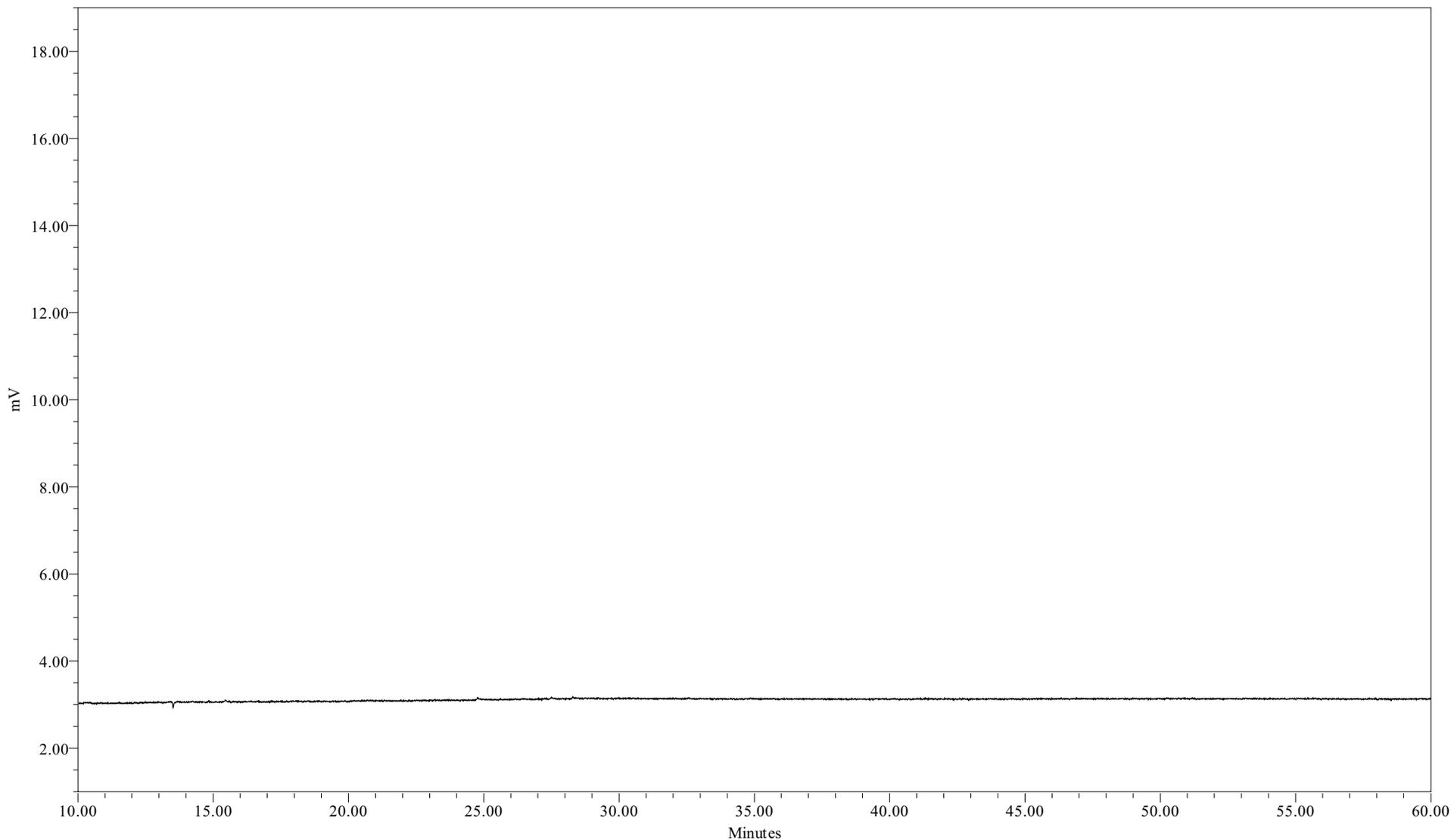
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	<i>104</i>
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	<i>80,88,93</i>
56 (78, <b>83</b> ,112,108)	<i>108</i>
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	<i>162</i>
105( <b>200</b> ,169)	<i>169</i>



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: 090922B02  
Sample ID: HEXANE BLANK  
Date Acquired: 9/22/2009 9:30:57 AM EDT

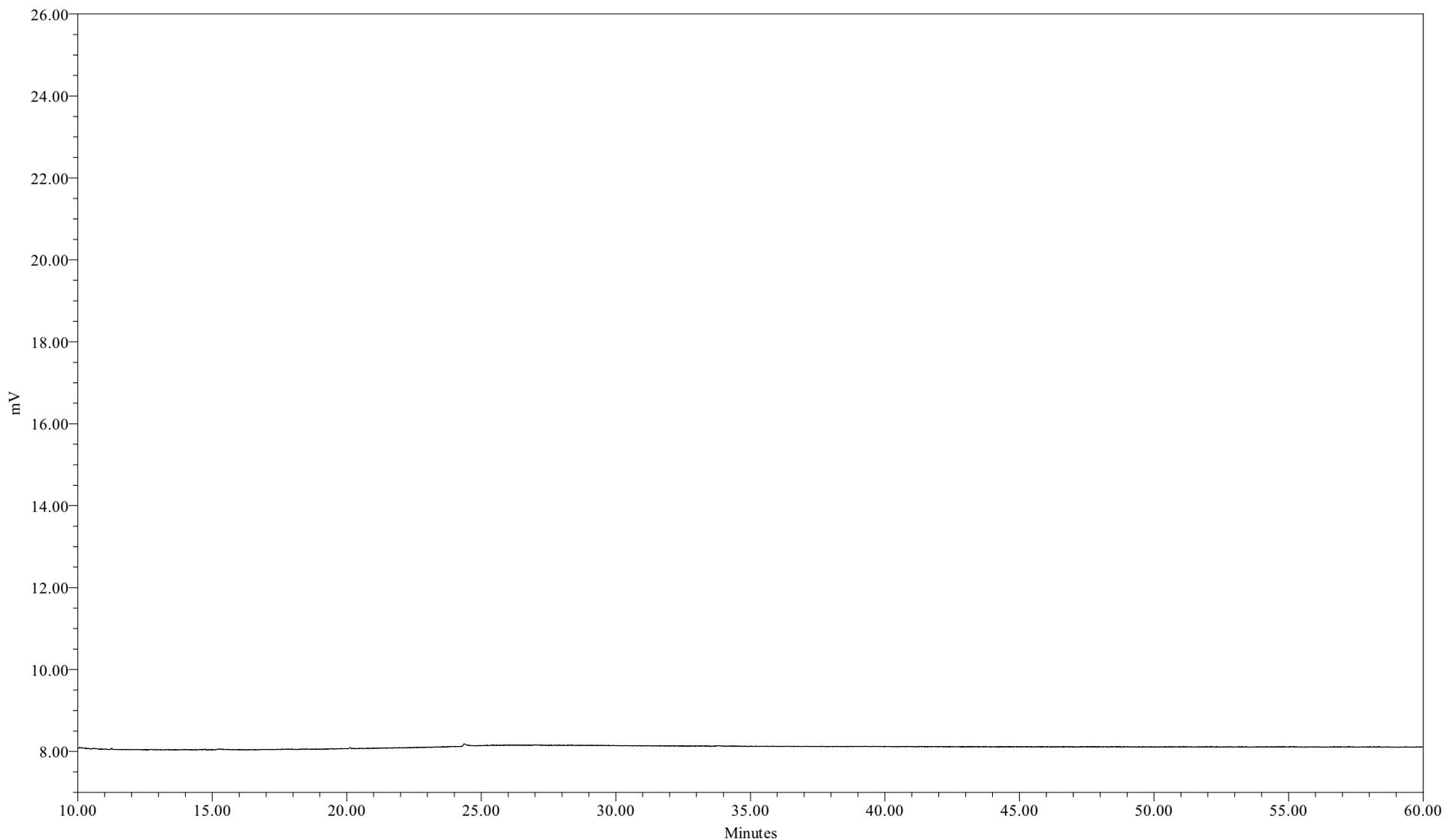
Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-798-2



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: 090922B04  
Sample ID: HEXANE BLANK  
Date Acquired: 9/22/2009 10:11:40 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-175-5

# MDL Studies

## Pooled Modified Green Bay Method MDL 1 Liter

Compiled May 2009

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL	
Water Column	PCBs (1 liter)	Total PCB (sum of congeners)	1336-36-3	Modified Green Bay Mass Balance Method (NEA 207_03)	ng/L	9.10	32.2	
		DB-1 Peak:	02	2051-60-7	NEA 207_03	ng/L	0.529	2.19
		03	2051-61-8	NEA 207_03	ng/L	6.63	1000	
		04	2051-62-9	NEA 207_03	ng/L	0.355	1.28	
		05	13029-08-8 33146-45-1	NEA 207_03	ng/L	0.134	0.621	
		06	33284-50-3 34883-39-1	NEA 207_03	ng/L	0.0721	0.219	
		07	25569-80-6	NEA 207_03	ng/L	0.158	0.347	
		08	16605-91-7 34883-43-7	NEA 207_03	ng/L	0.542	2.56	
		09	34883-41-5	NEA 207_03	ng/L	0.294	25.0	
		10	38444-73-4	NEA 207_03	ng/L	0.0604	0.102	
		11	35693-92-6	NEA 207_03	ng/L	0.198	25.0	
		12	2050-67-1	NEA 207_03	ng/L	0.306	25.0	
		13	2974-92-7 2974-90-5	NEA 207_03	ng/L	0.0559	0.0975	
		14	2050-68-2 37680-65-2	NEA 207_03	ng/L	0.128	0.676	
		15	37680-66-3	NEA 207_03	ng/L	0.143	0.676	
		16	55702-45-9 38444-76-7	NEA 207_03	ng/L	0.0374	0.047	
		17	38444-78-9 38444-77-8	NEA 207_03	ng/L	0.166	0.713	
		19	55720-44-0 37680-68-5 15968-05-5	NEA 207_03	ng/L	0.128	25.0	
		20	15862-07-4	NEA 207_03	ng/L	0.0108	0.0194	
		21	38444-81-4	NEA 207_03	ng/L	0.0606	0.132	
		22	55712-37-3	NEA 207_03	ng/L	0.0426	0.0585	
		23	16606-02-3	NEA 207_03	ng/L	0.487	0.753	
		24	7012-37-5 62796-65-0	NEA 207_03	ng/L	0.211	0.964	
		25	38444-84-7 55702-46-0 38444-86-9 41464-41-9	NEA 207_03	ng/L	0.105	0.726	
		26	38444-85-8 68194-04-7	NEA 207_03	ng/L	0.120	0.530	
		27	70362-45-7	NEA 207_03	ng/L	0.0367	0.163	
		28	38444-87-0	NEA 207_03	ng/L	0.375	25.0	
		29	41464-47-5	NEA 207_03	ng/L	0.127	0.127	
		30	38444-88-1	NEA 207_03	ng/L	0.120	25.0	
		31	35693-99-3 60233-24-1 74338-23-1	NEA 207_03	ng/L	0.204	0.872	
		32	70362-46-8 41464-40-8	NEA 207_03	ng/L	0.0978	0.420	
		33	53555-66-1 2437-79-8	NEA 207_03	ng/L	0.0656	0.183	
		34	70362-47-9 32598-12-2	NEA 207_03	ng/L	0.0579	0.183	
		35	54230-22-7 33284-54-7	NEA 207_03	ng/L	0.205	25.0	
		36	37680-69-6	NEA 207_03	ng/L	0.144	25.0	
		37	56558-16-8 41464-39-5	NEA 207_03	ng/L	0.160	0.786	
		38	38444-90-5 36559-22-5 74472-33-6	NEA 207_03	ng/L	0.115	0.475	
		39	52663-59-9 52663-58-8 41464-46-4 41464-42-0	NEA 207_03	ng/L	0.121	0.749	
		41	73575-52-7 73575-54-9	NEA 207_03	ng/L	0.115	25.0	
		42	38444-93-8	NEA 207_03	ng/L	0.0968	0.172	
		43	70424-67-8 60145-21-3	NEA 207_03	ng/L	0.152	25.0	
		44	41464-49-7 73575-53-8 39485-83-1	NEA 207_03	ng/L	0.0225	0.0402	

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		45	74472-34-7	NEA 207_03	ng/L	0.0299	0.0384
		46	32690-93-0 73575-55-0 33284-53-6	NEA 207_03	ng/L	0.0821	0.347
		47	32598-11-1	NEA 207_03	ng/L	0.164	0.621
		48	32598-10-0 70362-48-0 60233-25-2 33284-52-5 73575-56-1 38379-99-6 68194-06-9 55215-17-3	NEA 207_03	ng/L	0.243	1.32
		49	74338-24-2 68194-05-8 56558-18-0	NEA 207_03	ng/L	0.0376	0.093
		50	41464-43-1 33025-41-1	NEA 207_03	ng/L	0.359	0.640
		51	52663-60-2 52663-61-3 33979-03-2	NEA 207_03	ng/L	0.0888	0.329
		52	73575-57-2	NEA 207_03	ng/L	0.0384	0.0384
		53	68194-07-0 37680-73-2	NEA 207_03	ng/L	0.0691	0.329
		54	41464-48-6 38380-01-7 68194-10-5	NEA 207_03	ng/L	0.101	0.135
		55	56558-17-9 68194-08-1	NEA 207_03	ng/L	0.00644	0.0102
		56	70362-49-1 60145-20-2 74472-36-9 70362-41-3	NEA 207_03	ng/L	0.0647	0.0647
		57	41464-51-1 68194-09-2 55312-69-1	NEA 207_03	ng/L	0.0435	0.102
		58	70362-50-4 38380-02-8 68194-11-06 74472-39-2 39635-32-0 74472-38-1 74472-40-5	NEA 207_03	ng/L	0.0841	0.212
		59	18259-05-7 65510-45-4	NEA 207_03	ng/L	0.0484	0.128
		60	68194-12-7 38411-22-2	NEA 207_03	ng/L	0.0772	0.137
		61	32598-13-3 38380-03-9 74472-41-6	NEA 207_03	ng/L	0.0668	0.389
		62	60145-22-4	NEA 207_03	ng/L	0.113	25.0
		63	52663-62-4	NEA 207_03	ng/L	0.0201	0.0804
		64	52663-63-5	NEA 207_03	ng/L	0.0518	0.311
		65	70424-70-3 52744-13-5	NEA 207_03	ng/L	0.0149	0.0530
		66	68194-14-9	NEA 207_03	ng/L	0.0541	0.110
		67	70424-68-9 74472-35-8 68194-13-8	NEA 207_03	ng/L	0.0348	0.0475
		68	65510-44-3	NEA 207_03	ng/L	0.125	25.0
		69	70424-69-0 31508-00-6 56030-56-9 38380-04-0	NEA 207_03	ng/L	0.0938	0.731
		70	59291-64-4	NEA 207_03	ng/L	0.0829	25.0
		71	74472-37-0 52704-70-8 68194-15-0	NEA 207_03	ng/L	0.0348	0.0369
		72	76842-07-4 61798-70-7 35694-04-3 41411-61-4	NEA 207_03	ng/L	0.00638	0.0106
		73	51908-16-8 74472-46-1 74487-85-7	NEA 207_03	ng/L	0.0320	0.0713
		74	32598-14-4 38380-05-1 74472-43-8	NEA 207_03	ng/L	0.0721	0.248

Matrix	Category	Analyte Name	CAS	Analytical Method	Units	Laboratory MDL	Laboratory RL
			number(s)				
		75	35065-27-1	NEA 207_03	ng/L	0.109	0.538
		76	39635-33-1 59291-65-5 74472-48-3	NEA 207_03	ng/L	0.107	25.0
		77	52712-04-6	NEA 207_03	ng/L	0.064	0.311
		78	52663-64-6	NEA 207_03	ng/L	0.0470	0.267
		79	35694-06-5	NEA 207_03	ng/L	0.0501	0.0501
		80	52663-66-8 52663-65-7	NEA 207_03	ng/L	0.0151	0.0475
		82	35065-28-2 74472-44-9 74472-45-0	NEA 207_03	ng/L	0.108	0.493
		83	74472-42-7 41411-62-5 74472-49-4	NEA 207_03	ng/L	0.0450	0.0457
		84	57465-28-8 55215-18-4	NEA 207_03	ng/L	0.00310	0.00473
		85	41411-63-6 52663-67-9	NEA 207_03	ng/L	0.0677	0.201
		87	40186-70-7 39635-35-3	NEA 207_03	ng/L	0.0156	0.0731
		88	60145-23-5 52663-68-0	NEA 207_03	ng/L	0.102	0.658
		89	38380-07-3 39635-34-2	NEA 207_03	ng/L	0.0199	0.0366
		90	52663-69-1	NEA 207_03	ng/L	0.0679	0.311
		91	52663-72-6	NEA 207_03	ng/L	0.0348	0.0348
		92	52712-05-7	NEA 207_03	ng/L	0.0225	0.0859
		93	38411-25-5 74472-47-2	NEA 207_03	ng/L	0.102	0.585
		94	52663-70-4	NEA 207_03	ng/L	0.0936	0.311
		95	38380-08-4 52663-71-5	NEA 207_03	ng/L	0.0871	0.144
		96	69782-90-7 2136-99-4	NEA 207_03	ng/L	0.00942	0.0121
		98	68194-16-1	NEA 207_03	ng/L	0.0133	0.0139
		99	40186-71-8	NEA 207_03	ng/L	0.0863	0.0863
		100	52663-74-8 74472-52-9	NEA 207_03	ng/L	0.127	0.127
		101	74472-51-8 33091-17-7	NEA 207_03	ng/L	0.217	0.217
		102	35065-29-3	NEA 207_03	ng/L	0.150	1.11
		103	69782-91-8	NEA 207_03	ng/L	0.0640	0.0768
		104	74472-50-7	NEA 207_03	ng/L	0.0374	0.0438
		105	52663-73-7 32774-16-6	NEA 207_03	ng/L	0.0460	0.0786
		106	35065-30-6	NEA 207_03	ng/L	0.0538	0.234
		107	41411-64-7	NEA 207_03	ng/L	0.0213	0.0768
		108	68194-17-2	NEA 207_03	ng/L	0.0324	0.0438
		109	52663-75-9	NEA 207_03	ng/L	0.116	0.768
		110	42740-50-1 52663-76-0	NEA 207_03	ng/L	0.184	0.786
		111	39635-31-9	NEA 207_03	ng/L	0.0231	0.0231
		112	52663-78-2	NEA 207_03	ng/L	0.0368	0.101
		113	52663-77-1	NEA 207_03	ng/L	0.0438	0.0902
		114 (surrogate)	52663-79-3	NEA 207_03	ng/L	0.0154	0.0340
		115	35694-08-7	NEA 207_03	ng/L	0.0969	0.329
		116	74472-53-0	NEA 207_03	ng/L	0.0838	0.084
		117	40186-72-9	NEA 207_03	ng/L	0.0384	0.124
		118	2051-24-3	NEA 207_03	ng/L	0.0126	0.0126

Note:

\*\* - Peak 114 corresponds to IUPAC 207, which is the surrogate.

PCB SAMPLE DATA SUMMARY PACKAGE FOR:

ANCHOR QUANTITATIVE ENVIRONMENTAL ANALYSIS, LLC  
305 WEST GRAND AVENUE  
MONTVALE, NEW JERSEY 07645

TOTAL PCB: GREEN BAY METHOD (NE207\_03.DOC)

DATE: October 22, 2009-E

LRF: 09100263

PROVIDED BY : NORTHEAST ANALYTICAL, INC.  
2190 TECHNOLOGY DRIVE  
SCHENECTADY, NEW YORK 12308  
518-346-4592



**TABLE OF CONTENTS**

<u>SECTION</u>	<u>PAGE</u>
CASE NARRATIVE .....	4
SAMPLE CHAIN OF CUSTODY .....	7
INTERNAL SAMPLE TRACKING RECORD .....	9
SURROGATE RECOVERY SUMMARY .....	12
LABORATORY CONTROL SPIKE SUMMARY .....	29
METHOD BLANK SUMMARY .....	31
SAMPLE ANALYSIS DATA .....	33
SAMPLE GC INJECTION LOG (GC-16) .....	136
SAMPLE GC INJECTION LOG (GC-24) .....	140
STANDARDS SUMMARY TABLES (GC-16) .....	146
STANDARDS SUMMARY TABLES (GC-24) .....	193
CALIBRATION COMPONENT SUMMARY TABLES (GC-16) .....	242
CALIBRATION COMPONENT SUMMARY TABLES (GC-24) .....	246
STANDARDS RAW DATA (GC-16) .....	250
STANDARDS RAW DATA (GC-24) .....	273
QC SAMPLE RAW DATA .....	307
MDL STUDIES .....	328

# Case Narrative

November 06, 2009

## CASE NARRATIVE

This data package (NEA SDG ID: 09100263) consists of 6 water samples received on 10/22/2009. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AM19658	WFF-LOC5-091021-BT001	10/21/2009 12:21
AM19659	WFF-SCHU-091021-BT003	10/21/2009 12:55
AM19660	WFF-THIS-091021-BT003	10/21/2009 12:00
AM19661	WFF-TIDA-091021-BT001	10/21/2009 11:33
AM19662	WFF-WAFA-091021-BT001	10/21/2009 09:24
AM19663	WFF-WAFO-091021-BT001	10/21/2009 09:52

### Sample Delivery and Receipt Conditions

- (1.) Northeast Analytical provided sample pickup service on 10/22/2009.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 2.4 degrees Celsius. Please see Chain of Custody for details.

### Total PCBs by Green Bay Method (1L)

Analysis for Total PCBs was performed by NEA SOP NE207\_03. Samples were extracted by USEPA SW-846 Method 3535 Solid Phase Extraction. One-liter water samples were extracted by NEA SOP NE178\_03. The following technical and administrative items were noted for the analysis:

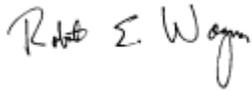
- (1.) Note: Hudson River Bias Correction applied (v09/23/2004) to GC Column peaks 5, 8, and 14 (which are comprised of congeners IUPAC 4 and 10; IUPAC 5 and 8; and IUPAC 15 and 18, respectively). Please see SOP NE207\_03 for details.
- (2.) Peak 15, Peak 21, Peak 22, Peak 27, Peak 34, Peak 57, Peak 59, and Peak 61 were observed in the Method Blank sample. All associated positive sample concentration results have been flagged (B) to denote the observed contamination.
- (3.) Samples WFF-LOC5-091021-BT001, WFF-SCHU-091021-BT003, WFF-WAFA-091021-BT001, WFF-WAFO-091021-BT001 (NEA ID: AM19658, AM19659, AM19662, AM19663) required additional analysis at a dilution for Peak 5 and Peak 10 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a NEA ID suffix of DL1. The concentration for Peak 5 and Peak 10 are included in the original analysis to provide the correct PCB total concentration.
- (4.) Sample WFF-THIS-091021-BT003 (NEA ID: AM19660) required additional analysis at a dilution for Peak 2, Peak 5, Peak 10, and Peak 16 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a NEA ID suffix of DL1. The concentration for Peak 2, Peak 5, Peak 10, and Peak 16 are included in the original analysis to provide the correct PCB total concentration.

(5.) Sample WFF-TIDA-091021-BT001 (NEA ID: AM19661) required additional analysis at a dilution for Peak 5, Peak 10, and Peak 16 to be within the calibration curve range of the instrument. This analysis is included in this data package and is identified with a NEA ID suffix of DL1. The concentration for Peak 5, Peak 10, and Peak 16 are included in the original analysis to provide the correct PCB total concentration.

Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the PQL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



Robert E. Wagner  
Laboratory Director & Founder

# Sample Chain Of Custody



385 West Grand Avenue, Montvale, NJ 07643 PH: 201-938-9890

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC091021-BNEA-01  
 Sample Custodian: CS  
 Lab: NEA

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC Sample Number	Field Sample ID	QA/QC	MS	MSD	LD	Matrix**	Date Collected	Time Collected	Media*	# Containers	4degC								
											CS PCBs NEZ07_03								
001	WFF-LOC5-091021-BT001	ENV	N	N	N	W	10/21/2009	12:21	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM19658						
002	WFF-SCHU-091021-BT003	ENV	N	N	N	W	10/21/2009	12:55	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM19659						
003	WFF-THIS-091021-BT003	ENV	N	N	N	W	10/21/2009	12:00	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM19660						
004	WFF-TIDA-091021-BT001	ENV	N	N	N	W	10/21/2009	11:33	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM19661						
005	WFF-WAFA-091021-BT001	ENV	N	N	N	W	10/21/2009	09:24	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM19662						
006	WFF-WAFO-091021-BT001	ENV	N	N	N	W	10/21/2009	09:52	W	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AM19663						

AM19658  
 AM19659  
 AM19660  
 AM19661  
 AM19662  
 AM19663

Comments: Temp = 2.4°C

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:
Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>	Print Name:	Print Name:
Company: <i>[Company]</i>	Company: <i>[Company]</i>	Company: <i>[Company]</i>	Company: <i>[Company]</i>	Company:	Company:
Date/Time: <i>[Date/Time]</i>	Date/Time: <i>[Date/Time]</i>	Date/Time: <i>[Date/Time]</i>	Date/Time: <i>[Date/Time]</i>	Date/Time:	Date/Time:

Date Printed: 10/21/2009

\* S= SEDIMENT, W= WATER \*\* T = Total, D = Dissolved, R = Residue  
 \*\*\* Air Tight Container; preserved at lab if not analyzed within 48 hrs.

# Internal Sample Tracking Record

CONGENER EXTRACTION LOG



Prep Date: 10/22/09

Batch ID: 9709

Initial for required Clean Up Steps

	Prep ID	NEA Sample ID	Alt Sample ID	Client	Extraction Type	Matrix	Sample Amount (g or mL)	TS %	Final Ext. Vol (mL)	Date Ext (MM/DD)	Extract Time On	Extract Time Off	Date Conc (MM/DD)	Initial for required Clean Up Steps			Cell / Unit #	Job	pH	Comments	
														Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)					Date Hg Shake (MM/DD)
1	94957	CEBLK-62	AM19657B		SPE-1L	Water	1000	N/A	5	10/22	NA	NA	10/22	10/22	NA	10/22	10/22	L4	E CON1L	5	
2	94956	LCS-62	AM19657L		SPE-1L	Water	1000	N/A	5	10/22	NA	NA	10/22	10/22	NA	10/22	10/22	L5	E CON1L	5	
3	94958	09100263-01	AM19658	GE	SPE-1L	Water	1040	N/A	5	10/22	NA	NA	10/22	10/22	NA	10/22	10/22	L1	E CON1L	5	
4	94959	09100263-02	AM19659	GE	SPE-1L	Water	1060	N/A	5	10/22	NA	NA	10/22	10/22	NA	10/22	10/22	L2	E CON1L	5	
5	94960	09100263-03	AM19660	GE	SPE-1L	Water	1040	N/A	5	10/22	NA	NA	10/22	10/22	NA	10/22	10/22	L3	E CON1L	5	
6	94961	09100263-04	AM19661	GE	SPE-1L	Water	1080	N/A	5	10/22	NA	NA	10/22	10/22	NA	10/22	10/22	L4	E CON1L	5	
7	94962	09100263-05	AM19662	GE	SPE-1L	Water	1080	N/A	5	10/22	NA	NA	10/22	10/22	NA	10/22	10/22	L5	E CON1L	5	
8	94963	09100263-06	AM19663	GE	SPE-1L	Water	1040	N/A	5	10/22	NA	NA	10/22	10/22	NA	10/22	10/22	L6	E CON1L	5	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	E49039	NA		b	b	..	b	..	..	..
Acetone (current)	CZ366	NA		b	b	..	b	..	..	..
Dichloromethane (current)	CZ377	NA		b	b	..	b	..	..	..
Hexane	CZ440	NA		b	b	..	b	..	..	..
10% Florisil (CSGB only)current	090618F	NA		b	b	..	b	..	..	..
Methanol (current)	49107	NA		b	b	..	b	..	..	..
Mercury(current)	080314	NA		b	b	..	b	..	..	..
1:1 Sulfuric Acid (SPE only)current	090818A	NA		b	b	..	b	..	..	..
Nona @ 0.2ppm in Acetone(current)	082609B27P144A1-10	500	0.2	b	b	..	b	..	..	..
Speedisk (current)	H25N17	NA		b	b	..	b	..	..	..
A1242 @ 1.0ppm in Acetone	100609B27P198C	200	1.0	..	b	..	b	..	..	..

SPIKED BY: Suzanne Perham

WITNESSED BY: Kirby Jewett

SIGNATURE:

Northeast Analytical, Inc.

SIGNATURE:

09100263

Print Date: 11/06/2009

Nea Lims Version : 5.0.0.3

# CONGENER SCREEN SHEET

Batch ID: 9709

Prepared by: Kirby Jewett

NEA Sample ID	Alt Sample ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Dilution Sequence	Final Multiplier
CEBLK-62	AM19657B	Water	10/22/09	1000	5	NA		NA	5x
LCS-62	AM19657L	Water	10/22/09	1000	5	NA		NA	5x
09100263-01	AM19658	Water	10/22/09	1040	5	NA		NA / 1>10	5x / 50x
09100263-02	AM19659	Water	10/22/09	1060	5	NA		NA / 1>10	5x / 50x
09100263-03	AM19660	Water	10/22/09	1040	5	NA		NA / 1>10	5x / 50x
09100263-04	AM19661	Water	10/22/09	1080	5	NA		NA / 1>10	5x / 50x
09100263-05	AM19662	Water	10/22/09	1080	5	NA		NA / 1>10	5x / 50x
09100263-06	AM19663	Water	10/22/09	1040	5	NA		NA / 1>10	5x / 50x

Solvent, Surrogate, Spike, and Acid Information      B=Blank, L=Lab Control Spike,LD=Lab Control Spike Duplicate, S=Sample,D=Duplicate,M=Matrix Spike,K=Matrix Spike Duplicate

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	E49039	NA		b	b	**	b	**	**	**
Acetone (current)	CZ366	NA		b	b	**	b	**	**	**
Dichloromethane (current)	CZ377	NA		b	b	**	b	**	**	**
Hexane	CZ440	NA		b	b	**	b	**	**	**
10% Florisil (CSGB only)current	090618F	NA		b	b	**	b	**	**	**
Methanol (current)	49107	NA		b	b	**	b	**	**	**
Mercury(current)	080314	NA		b	b	**	b	**	**	**
1:1 Sulfuric Acid (SPE only)current	090818A	NA		b	b	**	b	**	**	**
Nona @ 0.2ppm in Acetone(current)	082609B27P144A1-10	500	0.2	b	b	**	b	**	**	**
Speedisk	H25N17	NA		b	b	**	b	**	**	**
A1242 @ 1.0ppm in Acetone	100609B27P198C	200	1.0	**	b	**	b	**	**	**

COMMENTS: \_\_\_\_\_

# Surrogate % Recovery Summary

## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Lab Name: Northeast Analytical, Inc.

SDG No: 09100263

ELAP ID No: 11078

Init. Calib. Date(s): 08/23/2009

GC Column (1): Agilent DB-1; 30 meter; 0.25 micron phase thickness

Instrument ID: GC16

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS:						
IUPAC 207: <u>40.98</u>						
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)
01	ICAL 6.25 ng/mL	ICAL0823A	GC16-769-3	08/23/2009 04:27:16		
02	ICAL 12.5 ng/mL	ICAL0823B	GC16-769-4	08/23/2009 05:34:46		
03	ICAL 125 ng/mL	ICAL0823C	GC16-769-5	08/23/2009 06:42:13		
04	ICAL 314 ng/mL	ICAL0823D	GC16-769-6	08/23/2009 07:49:33		
05	ICAL 627 ng/mL	ICAL0823E	GC16-769-7	08/23/2009 08:56:52		
06	SUP CONG STD 200/5 ng/mL	SC0823A	GC16-769-9	08/23/2009 11:11:32		
07	Surr Std (207) 2.0 ng/mL	SS0823A	GC16-769-10	08/23/2009 12:18:49		
08	Surr Std (207) 20.0 ng/mL	SS0823B	GC16-769-11	08/23/2009 13:26:05		
09	Surr TCMX/DCBP 5/50 ppb	TD0823A	GC16-769-12	08/23/2009 14:33:23		
10	HEXANE BLANK	091022B01	GC16-827-1	10/22/2009 12:04:12		
11	CCC Std 122 ng/mL	CCCS1022A	GC16-827-2	10/22/2009 13:12:19		
12	CEBLK-62(METHOD BLANK)	AM19657B	GC16-827-3	10/22/2009 14:20:40	40.98	93.3
13	LCS-62(LAB CONTROL SPIKE)	AM19657L	GC16-827-4	10/22/2009 15:28:47	40.99	89.7
14	CCC Std 122 ng/mL	CCCS1022B	GC16-827-10	10/22/2009 22:13:38		

## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Lab Name: Northeast Analytical, Inc.

SDG No: 09100263

ELAP ID No: 11078

Init. Calib. Date(s): 09/05/2009

GC Column (1): PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

Instrument ID: GC24

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS:							
IUPAC 207: <u>39.47</u>							
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED	IUPAC 207 RT #	RT DIFFERENCE (LIMIT +/- 0.07 MIN)	SURROGATE % RECOVERY (Limits 60.0-140)	
01	ICAL 6.25 ng/mL	ICAL0905A	GC24-163-3	09/05/2009 05:01:29			
02	ICAL 12.5 ng/mL	ICAL0905B	GC24-163-4	09/05/2009 06:06:56			
03	ICAL 125 ng/mL	ICAL0905C	GC24-163-5	09/05/2009 07:12:23			
04	ICAL 314 ng/mL	ICAL0905D	GC24-163-6	09/05/2009 08:17:51			
05	ICAL 627 ng/mL	ICAL0905E	GC24-163-7	09/05/2009 09:23:21			
06	SUP CONG STD 200/5 ng/mL	SC0905A	GC24-163-9	09/05/2009 11:34:20			
07	Surr Std (207) 2.0 ng/mL	SS0905A	GC24-163-10	09/05/2009 12:40:05			
08	Surr Std (207) 20.0 ng/mL	SS0905B	GC24-163-11	09/05/2009 13:45:34			
09	Surr TCMX/DCBP 5/50 ppb	TD0905A	GC24-163-12	09/05/2009 14:51:02			
10	HEXANE BLANK	091022B01	GC24-204-1	10/22/2009 11:57:58			
11	CCC Std 122 ng/mL	CCCS1022C	GC24-204-11	10/22/2009 22:54:10			
12	WFF-LOC5-091021-BT001	AM19658	GC24-204-12	10/22/2009 23:59:53	39.48	0.01	75.0
13	WFF-LOC5-091021-BT001	AM19658DL1	GC24-204-13	10/23/2009 01:05:15	39.47	0.00	99.6
14	WFF-SCHU-091021-BT003	AM19659	GC24-204-14	10/23/2009 02:10:34	39.47	0.00	76.1
15	WFF-SCHU-091021-BT003	AM19659DL1	GC24-204-15	10/23/2009 03:15:52	39.47	0.00	95.3
16	WFF-THIS-091021-BT003	AM19660	GC24-204-16	10/23/2009 04:21:10	39.47	0.00	76.9
17	WFF-THIS-091021-BT003	AM19660DL1	GC24-204-17	10/23/2009 05:26:26	39.47	0.00	111
18	WFF-TIDA-091021-BT001	AM19661	GC24-204-18	10/23/2009 06:31:40	39.47	0.00	74.6
19	WFF-TIDA-091021-BT001	AM19661DL1	GC24-204-19	10/23/2009 07:36:55	39.47	0.00	102
20	WFF-WAFA-091021-BT001	AM19662	GC24-204-20	10/23/2009 08:42:19	39.48	0.01	79.7
21	CCC Std 122 ng/mL	CCCS1022D	GC24-204-21	10/23/2009 09:47:48			
22	WFF-WAFA-091021-BT001	AM19662DL1	GC24-204-22	10/23/2009 10:53:20	39.48	0.01	110
23	WFF-WAFO-091021-BT001	AM19663	GC24-204-23	10/23/2009 11:58:54	39.48	0.01	81.1
24	WFF-WAFO-091021-BT001	AM19663DL1	GC24-204-24	10/23/2009 13:06:59	39.49	0.02	107
25	CCC Std 122 ng/mL	CCCS1023A	GC24-205-7	10/23/2009 20:46:24			



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Sample Name:	AM19657B	Sample Amount:	1.000 L
Sample ID:	METHOD BLANK	Dilution:	5
Date Acquired:	10/22/2009 14:20:40	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	10/22/2009 19:45:22
Sample Set Name:	GC16_102209A	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_082309	Current Time:	23:06:14
Run Time:	60 Minutes	Current Date:	10/23/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-827-3

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.98	196195	18.657	93.3
2	I.S. (OCN)	47.03	182490	3.636	



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Sample Name:	AM19657L	Sample Amount:	1.000 L
Sample ID:	LAB CONTROL SPIKE	Dilution:	5
Date Acquired:	10/22/2009 15:28:47	Extract Volume:	5 mL
Project Name:	GC16_May_2009	Date Processed:	10/22/2009 19:45:29
Sample Set Name:	GC16_102209A	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_082309	Current Time:	23:06:14
Run Time:	60 Minutes	Current Date:	10/23/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC16-827-4

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	40.99	194217	17.947	89.7
2	I.S. (OCN)	47.02	187797	3.636	



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Sample Name:	AM19658	Sample Amount:	1.040 L
Sample ID:	WFF-LOC5-091021-BT001	Dilution:	5
Date Acquired:	10/22/2009 23:59:53	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	10/23/2009 10:31:33
Sample Set Name:	GC24_102209c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_090509	Current Time:	23:06:14
Run Time:	60 Minutes	Current Date:	10/23/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-204-12

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.48	134020	15.004	75
2	I.S. (OCN)	45.12	194767	3.781	



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Sample Name:	AM19658DL1	Sample Amount:	1.040 L
Sample ID:	WFF-LOC5-091021-BT001	Dilution:	50
Date Acquired:	10/23/2009 01:05:15	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	10/23/2009 10:31:40
Sample Set Name:	GC24_102209c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_090509	Current Time:	23:06:14
Run Time:	60 Minutes	Current Date:	10/23/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-204-13

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.47	17036	1.991	99.6
2	I.S. (OCN)	45.12	186558	0.378	



---

Sample Name:	AM19659	Sample Amount:	1.060 L
Sample ID:	WFF-SCHU-091021-BT003	Dilution:	5
Date Acquired:	10/23/2009 02:10:34	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	10/23/2009 10:31:49
Sample Set Name:	GC24_102209c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_090509	Current Time:	23:06:14
Run Time:	60 Minutes	Current Date:	10/23/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-204-14

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.47	134012	15.227	76.1
2	I.S. (OCN)	45.12	191902	3.854	



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Sample Name:	AM19659DL1	Sample Amount:	1.060 L
Sample ID:	WFF-SCHU-091021-BT003	Dilution:	50
Date Acquired:	10/23/2009 03:15:52	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	10/23/2009 10:31:57
Sample Set Name:	GC24_102209c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_090509	Current Time:	23:06:14
Run Time:	60 Minutes	Current Date:	10/23/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-204-15

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.47	16377	1.907	95.3
2	I.S. (OCN)	45.12	187293	0.385	



Sample Name: AM19660 Sample Amount: 1.040 L  
Sample ID: WFF-THIS-091021-BT003 Dilution: 5  
Date Acquired: 10/23/2009 04:21:10 Extract Volume: 5 mL  
Project Name: GC24\_Mar\_2009 Date Processed: 10/23/2009 10:32:04  
Sample Set Name: GC24\_102209c User Name: Amy Jo Arndt  
Processing Method: CSGB\_S\_20\_090509 Current Time: 23:06:15  
Run Time: 60 Minutes Current Date: 10/23/2009  
Report Name: CSGB\_Surrogate(NeaLims) LIMS File ID: GC24-204-16

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.47	134141	15.390	76.9
2	I.S. (OCN)	45.13	190051	3.781	



Sample Name: AM19660DL1 Sample Amount: 1.040 L  
Sample ID: WFF-THIS-091021-BT003 Dilution: 50  
Date Acquired: 10/23/2009 05:26:26 Extract Volume: 5 mL  
Project Name: GC24\_Mar\_2009 Date Processed: 10/23/2009 10:32:10  
Sample Set Name: GC24\_102209c User Name: Amy Jo Arndt  
Processing Method: CSGB\_S\_20\_090509 Current Time: 23:06:15  
Run Time: 60 Minutes Current Date: 10/23/2009  
Report Name: CSGB\_Surrogate(NeaLims) LIMS File ID: GC24-204-17

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.47	18645	2.216	111
2	I.S. (OCN)	45.12	183458	0.378	



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Sample Name:	AM19661	Sample Amount:	1.080 L
Sample ID:	WFF-TIDA-091021-BT001	Dilution:	5
Date Acquired:	10/23/2009 06:31:40	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	10/23/2009 10:32:18
Sample Set Name:	GC24_102209c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_090509	Current Time:	23:06:15
Run Time:	60 Minutes	Current Date:	10/23/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-204-18

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.47	125640	14.927	74.6
2	I.S. (OCN)	45.11	183524	3.927	



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Sample Name:	AM19661DL1	Sample Amount:	1.080 L
Sample ID:	WFF-TIDA-091021-BT001	Dilution:	50
Date Acquired:	10/23/2009 07:36:55	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	10/23/2009 10:32:26
Sample Set Name:	GC24_102209c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_090509	Current Time:	23:06:15
Run Time:	60 Minutes	Current Date:	10/23/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-204-19

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.47	16711	2.035	102
2	I.S. (OCN)	45.12	179047	0.393	



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Sample Name:	AM19662	Sample Amount:	1.080 L
Sample ID:	WFF-WAFA-091021-BT001	Dilution:	5
Date Acquired:	10/23/2009 08:42:19	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	10/23/2009 10:47:27
Sample Set Name:	GC24_102209c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_090509	Current Time:	23:06:15
Run Time:	60 Minutes	Current Date:	10/23/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-204-20

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.48	137565	15.932	79.7
2	I.S. (OCN)	45.14	188274	3.927	



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Sample Name:	AM19662DL1	Sample Amount:	1.080 L
Sample ID:	WFF-WAFA-091021-BT001	Dilution:	50
Date Acquired:	10/23/2009 10:53:20	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	10/23/2009 12:35:20
Sample Set Name:	GC24_102209c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_090509	Current Time:	23:06:15
Run Time:	60 Minutes	Current Date:	10/23/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-204-22

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.48	18749	2.207	110
2	I.S. (OCN)	45.14	185207	0.393	



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Sample Name:	AM19663	Sample Amount:	1.040 L
Sample ID:	WFF-WAFO-091021-BT001	Dilution:	5
Date Acquired:	10/23/2009 11:58:54	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	10/23/2009 21:58:27
Sample Set Name:	GC24_102209c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_090509	Current Time:	23:06:15
Run Time:	60 Minutes	Current Date:	10/23/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-204-23

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.48	132541	16.216	81.1
2	I.S. (OCN)	45.14	178219	3.781	



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Sample Name:	AM19663DL1	Sample Amount:	1.040 L
Sample ID:	WFF-WAFO-091021-BT001	Dilution:	50
Date Acquired:	10/23/2009 13:06:59	Extract Volume:	5 mL
Project Name:	GC24_Mar_2009	Date Processed:	10/23/2009 21:58:36
Sample Set Name:	GC24_102209c	User Name:	Amy Jo Arndt
Processing Method:	CSGB_S_20_090509	Current Time:	23:06:16
Run Time:	60 Minutes	Current Date:	10/23/2009
Report Name:	CSGB_Surrogate(NeaLims)	LIMS File ID:	GC24-204-24

**Peak Results**

	Component Name	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Surrogate % Recovery
1	Nonachlorobiphenyl Amount	39.49	18608	2.130	107
2	I.S. (OCN)	45.15	190451	0.378	

# Laboratory Control Spike Summary

## PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Northeast Analytical, Inc.

ELAP ID No: 11078

SDG No: 09100263

LCS ID: LCS-62

Blank Sample ID: CEBLK-62

LCS File ID: GC16-827-4

Method Blank File ID: GC16-827-3

LCS Inj Date: 10/22/2009 15:28:47

Method Blank Inj Date: 10/22/2009 14:20:40

LCS NEA ID No: AM19657L

Method Blank NEA ID No: AM19657B

ANALYTE	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS PERCENT RECOVERY		QC LIMITS PERCENT RECOVERY
				#	
Total PCBs	200	188	94.2		60.0-140

# Column to be used to flag recovery values.

\* Value outside of QC limits.

Comments: \_\_\_\_\_  
 \_\_\_\_\_

# Method Blank Summary

PCB METHOD BLANK SUMMARY

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09100263
ELAP ID No:	11078	LRF ID:	CEBLK-62
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-62(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM19657B
% Moisture:	100	Lab File ID:	GC16-827-3
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	10/22/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	10/22/2009 14:20
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

# Sample Analysis Data

**PCB SAMPLE ANALYSIS DATA SHEET**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09100263</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>09100263-01</u>
Matrix:	<u>Water</u>	Client ID:	<u>WFF-LOC5-091021-BT001</u>
Sample Wt(Dry)/Vol:	<u>1040 mL</u>	Lab Sample ID:	<u>AM19658</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-204-12</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u>10/22/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>10/22/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>10/22/2009 23:59</u>
Analytical SOP Reference:	<u>SOP NE207_03</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm</u>		

OCN (I.S.) Peak Area: 194767

Percent Recovery (50 - 150 %): 113

SAMPLE TOTAL PCB CONCENTRATION: 205 ng/L

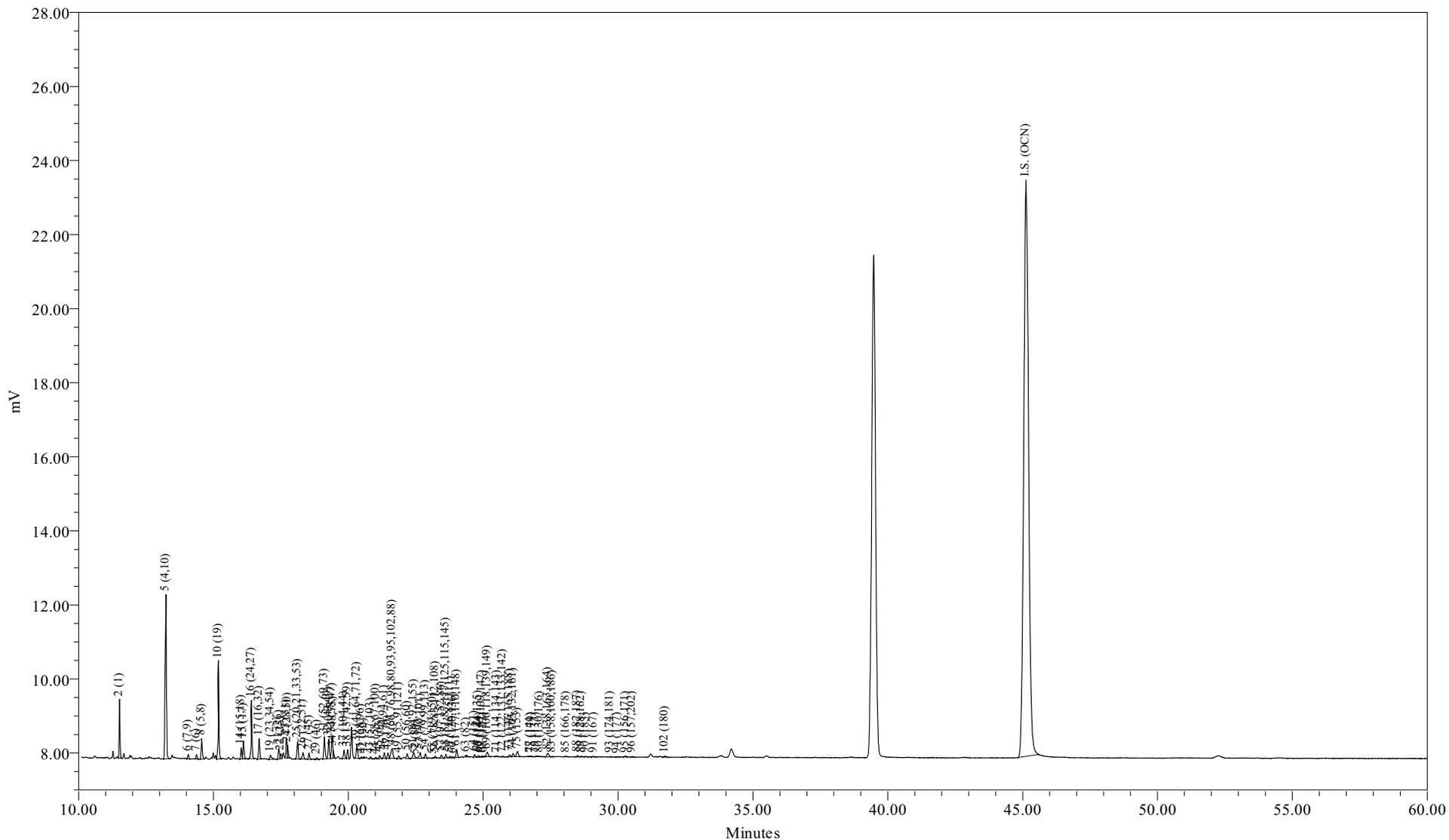
Visual Aroclor ID: Altered Aroclor 1242



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Sample Name: AM19658  
Sample ID: WFF-LOC5-091021-BT001  
Date Acquired: 10/22/2009 23:59:53 EDT

Sample Amount (L) : 1.0400  
Dilution: 5  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-12

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 23:59:53  
 Lab Sample ID: AM19658  
 LRF ID: 09100263-01  
 Lab File ID: GC24-204-12

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 205 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	29.87	34.86
Di	46.35	45.74
Tri	16.46	14.07
Tetra	5.01	3.80
Penta	1.86	1.26
Hexa	0.44	0.27
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	61.3219	95.7	95.8
A1242	23+24/31+28	2.2541	3.52	3.52
A1254SED	61/100	0.5197	0.811	
A1254BIO	69+75+82/149+153+138	0.4658		0.727
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.66

Meta + Para Cl / biphenyl Residue = 0.25

Total Cl / biphenyl Residue = 1.92

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 23:59:53  
 Lab Sample ID: AM19658  
 LRF ID: 09100263-01  
 Lab File ID: GC24-204-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.52	188.7	3005	61.3	325	0.529	2.19	
3	12.52	188.7				6.63	1000	U
4	12.63	188.7				0.355	1.28	U
5	13.24	223.1	1662	91.2	409	1.34	6.21	
6	14.06	223.1	382	0.410	1.84	0.0721	0.219	
7	14.38	223.1	301	0.779	3.49	0.158	0.347	
8	14.56	223.1	1544	2.38	10.7	0.542	2.56	J
9	15.11	223.1				0.294	25.0	U
10	15.18	257.5	876	14.8	57.3	0.604	1.02	
11	15.64	257.5				0.198	25.0	U
12	15.72	223.1				0.306	25.0	U
13	15.92	223.1				0.0559	0.0975	U
14	16.03	249.0	804	1.51	6.06	0.128	0.676	
15	16.12	257.5	1296	3.24	12.6	0.143	0.676	B
16	16.41	257.5	4513	4.39	17.1	0.0374	0.0475	
17	16.70	257.5	1626	2.81	10.9	0.166	0.713	
19	17.12	267.9	452	0.666	2.49	0.128	25.0	J
20	17.29	257.5				0.0108	0.0194	U
21	17.43	257.5	913	1.28	4.97	0.0606	0.132	B
22	17.50	257.5	433	0.431	1.68	0.0426	0.0585	B
23	17.70	257.5	1716	1.84	7.15	0.487	0.753	
24	17.75	257.5	762	0.414	1.61	0.211	0.964	J
25	18.12	259.5	1495	1.85	7.12	0.105	0.726	
26	18.32	258.7	654	0.802	3.10	0.120	0.530	
27	18.54	292.0	510	0.550	1.89	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.84	292.0	201	0.276	0.946	0.127	0.127	
30	18.96	257.5				0.120	25.0	U
31	19.12	292.0	1908	2.94	10.1	0.204	0.872	
32	19.28	292.0	1697	1.37	4.71	0.0978	0.420	
33	19.40	292.0	1940	1.07	3.67	0.0656	0.183	
34	19.44	292.0	381	0.284	0.972	0.0579	0.183	B
35	19.59	292.0				0.205	25.0	U
36	19.69	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0	783	0.400	1.37	0.160	0.786	J
38	19.97	272.4	745	0.899	3.30	0.115	0.475	
39	20.32	292.0	1347	0.930	3.18	0.121	0.749	
41	20.48	326.4	91	0.124	0.380	0.115	25.0	J
42	20.57	292.0	133	0.137	0.469	0.0968	0.172	J
43	20.83	298.9	133			0.152	25.0	U
44	21.02	298.9	131	0.0941	0.315	0.0225	0.0402	
45	21.16	292.0	256	0.191	0.653	0.0299	0.0384	
46	21.33	292.0	508	0.216	0.741	0.0821	0.347	J
47	21.47	292.0	519	0.171	0.587	0.164	0.621	J
48	21.63	293.5	1343	0.989	3.37	0.243	1.32	J
49	21.87	324.7	322	0.296	0.911	0.0376	0.0932	
50	22.18	292.0	513			0.359	0.640	U
51	22.43	326.4	677	1.10	3.36	0.0888	0.329	
52	22.51	326.4	26			0.0384	0.0384	U
53	22.66	326.4	698	0.457	1.40	0.0691	0.329	
54	22.86	326.4	480	0.239	0.733	0.101	0.135	
55	23.14	326.4	44	0.0184	0.0564	0.00644	0.0102	
56	23.23	326.4	159	0.150	0.459	0.0647	0.0647	
57	23.45	326.4	324	0.200	0.613	0.0435	0.102	B
58	23.62	326.4	360	0.238	0.729	0.0841	0.212	
59	23.78	326.4	148	0.0905	0.277	0.0484	0.128	JB
60	23.88	360.9	69			0.0772	0.137	U
61	24.02	326.4	764	0.520	1.59	0.0668	0.389	B
62	24.29	360.9				0.113	25.0	U
63	24.38	326.4	177	0.0813	0.249	0.0201	0.0804	
64	24.68	360.9	222	0.0837	0.232	0.0518	0.311	J
65	24.81	350.5	148	0.0695	0.198	0.0149	0.0530	
66	24.86	360.9	37			0.0541	0.110	U
67	24.95	336.8	88	0.0681	0.202	0.0348	0.0475	
68	25.02	326.4	57			0.125	25.0	U
69	25.15	337.5	609	0.163	0.482	0.0938	0.731	J
70	25.24	360.9				0.0829	25.0	U
71	25.51	347.8	68	0.0463	0.133	0.0348	0.0369	
72	25.73	336.8	62	0.0246	0.0730	0.00638	0.0106	
73	25.97	360.9	218	0.126	0.348	0.0320	0.0713	
74	26.11	347.8	328	0.141	0.405	0.0721	0.248	J
75	26.28	360.9	664	0.185	0.512	0.109	0.538	J
76	26.37	360.9				0.107	25.0	U
77	26.75	360.9	43			0.0637	0.311	U
78	26.80	395.3	22			0.0470	0.267	U
79	26.97	360.9	100	0.0673	0.187	0.0501	0.0501	
80	27.09	360.9	38			0.0151	0.0475	U
82	27.41	360.9	482	0.118	0.328	0.108	0.493	J
83	27.57	360.9	12			0.0450	0.0457	U
84	27.74	360.9				0.00310	0.00473	U
85	28.08	395.3	65			0.0677	0.201	U
87	28.36	395.3				0.0156	0.0731	U
88	28.50	395.3	113			0.102	0.658	U
89	28.64	360.9	84	0.0239	0.0663	0.0199	0.0366	J
90	28.80	395.3	69			0.0679	0.311	U
91	29.11	360.9	74	0.0520	0.144	0.0348	0.0348	

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.0225	0.0859	U
93	29.71	394.3	26			0.102	0.585	U
94	29.98	394.3	61			0.0936	0.311	U
95	30.28	382.2	140			0.0871	0.144	U
96	30.52	429.8	68			0.00942	0.0121	U
98	30.68	395.3				0.0133	0.0139	U
99	31.04	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.54	429.8				0.217	0.217	U
102	31.74	395.3	137			0.150	1.11	U
103	31.96	395.3				0.0640	0.0768	U
104	32.25	395.3				0.0374	0.0438	U
105	32.58	429.8				0.0460	0.0786	U
106	33.68	395.3				0.0538	0.234	U
107	33.95	395.3				0.0213	0.0768	U
108	34.76	429.8				0.0324	0.0438	U
109	34.98	429.8				0.116	0.768	U
110	35.50	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 205 ng/L

10.8

38.7

Total Nanomoles = 0.932

Average Molecular Weight = 220.2

Number of Calibrated Peaks Found = 75

Internal Standard Retention Time = 45.12 minutes

Internal Standard Peak Area = 194766.7

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 23:59:53  
 Lab Sample ID: AM19658  
 LRF ID: 09100263-01  
 Lab File ID: GC24-204-12

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.52	1:1	001	0.2553	2	29.867	34.859
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.24	2:2	004 010	0.2934	2-2; 26	44.434	43.864
6	14.06	2:1	007 009	0.3116	24; 25	0.200	0.197
7	14.38	2:1	006	0.3187	2-3	0.379	0.375
8	14.56	2:1	005 008	0.3227	23; 2-4	1.159	1.144
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3364	26-2	7.192	6.151
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.03	2:0 3:2	015 018	0.3553	4-4; 25-2	0.734	0.650
15	16.12	3:2	017	0.3573	24-2	1.578	1.349
16	16.41	3:2	024 027	0.3637	236; 26-3	2.139	1.830
17	16.70	3:2	016 032	0.3701	23-2; 26-4	1.366	1.169
19	17.12	3:1 4:4	023 034 054	0.3794	235; 35-2; 26-26	0.324	0.267
20	17.29	3:1	029		245	-	-
21	17.43	3:1	026	0.3863	25-3	0.623	0.533
22	17.50	3:1	025	0.3879	24-3	0.210	0.180
23	17.70	3:1	031	0.3923	25-4	0.896	0.767
24	17.75	3:1 4:3	028 050	0.3934	24-4; 246-2	0.202	0.172
25	18.12	3:1 4:3	020 021 033 053	0.4016	23-3; 234; 34-2; 25-26	0.899	0.763
26	18.32	3:1 4:3	022 051	0.4060	23-4; 24-26	0.391	0.333
27	18.54	4:3	045	0.4109	236-2	0.268	0.202
28	18.69	3:0	036		35-3	-	-
29	18.84	4:3	046	0.4176	23-26	0.135	0.101
30	18.96	3:0	039		35-4	-	-
31	19.12	4:2	052 069 073	0.4238	25-25; 246-3; 26-35	1.433	1.081
32	19.28	4:2	043 049	0.4273	235-2; 24-25	0.669	0.505
33	19.40	4:2	038 047	0.4300	345; 24-24	0.522	0.394
34	19.44	4:2	048 075	0.4309	245-2; 246-4	0.138	0.104
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044	0.4397	246-26; 23-25	0.195	0.147
38	19.97	3:0 4:2	037 042 059	0.4426	34-4; 23-24; 236-3	0.438	0.354
39	20.32	4:2	041 064 071 072	0.4504	234-2; 236-4; 26-34; 25-35	0.453	0.342

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096	0.4539	24-35; 236-26	0.060	0.041
42	20.57	4:2	040	0.4559	23-23	0.067	0.050
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.02	4:1 5:3	058 067 100	0.4659	23-35; 245-3; 246-24	0.046	0.034
45	21.16	4:1	063	0.4690	235-4	0.093	0.070
46	21.33	4:1 5:3	074 094 061	0.4727	245-4; 235-26; 2345	0.105	0.080
47	21.47	4:1	070	0.4758	25-34	0.084	0.063
48	21.63	4:1 5:3	066 076 098 080 093 095 102 088	0.4794	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.482	0.361
49	21.87	4:1 5:3	055 091 121	0.4847	234-3; 236-24; 246-35	0.144	0.098
50	22.18	4:1	056 060		23-34; 234-4	-	-
51	22.43	5:3 6:4	084 092 155	0.4971	236-23; 235-25; 246-246	0.535	0.361
52	22.51	5:3	089		234-26	-	-
53	22.66	5:2	090 101	0.5022	235-24; 245-25	0.223	0.150
54	22.86	5:2	079 099 113	0.5066	34-35; 245-24; 236-35	0.117	0.079
55	23.14	5:2 6:4	119 150	0.5129	246-34; 236-246	0.009	0.006
56	23.23	5:2	078 083 112 108	0.5148	345-3; 235-23; 2356-3; 2346-3	0.073	0.049
57	23.45	5:2 6:4	097 152 086	0.5197	245-23; 2356-26; 2345-2	0.097	0.066
58	23.62	5:2	081 087 117 125 115 145	0.5235	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.116	0.078
59	23.78	5:2	116 085 111	0.5270	23456; 234-24; 235-35	0.044	0.030
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148	0.5324	34-34; 236-34; 235-246	0.253	0.171
62	24.29	6:3	154		245-246	-	-
63	24.38	5:2	082	0.5403	234-23	0.040	0.027
64	24.68	6:3	151	0.5470	2356-25	0.041	0.025
65	24.81	5:1 6:3	124 135	0.5499	345-25; 235-236	0.034	0.021
66	24.86	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147	0.5530	234-35; 235-34; 2356-24	0.033	0.022
68	25.02	5:1	123		345-24	-	-
69	25.15	5:1 6:3	106 118 139 149	0.5574	2345-3; 245-34; 2346-24; 236-245	0.079	0.052
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143	0.5654	2345-4; 2356-23; 2345-26	0.023	0.014
72	25.73	5:1 6:3	122 131 133 142	0.5703	345-23; 2346-23; 235-235; 23456-2	0.012	0.008
73	25.97	6:2	146 165 188	0.5756	235-245; 2356-35; 2356-246	0.061	0.037
74	26.11	5:1 6:3	105 132 161	0.5787	234-34; 234-236; 2346-35	0.069	0.043
75	26.28	6:2	153	0.5824	245-245	0.090	0.055
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.75	6:2	141		2345-25	-	-
78	26.80	7:4	179		2356-236	-	-
79	26.97	6:2	137	0.5977	2345-24	0.033	0.020
80	27.09	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.41	6:2	138 163 164	0.6075	234-245; 2356-34; 236-345	0.058	0.035
83	27.57	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.08	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.64	6:2	128 162	0.6348	234-234; 235-345	0.012	0.007
90	28.80	7:3	183		2346-245	-	-
91	29.11	6:1	167	0.6452	245-345	0.025	0.015
92	29.37	7:3	185		23456-25	-	-
93	29.71	7:3	174 181		2345-236; 23456-24	-	-
94	29.98	7:3	177		2356-234	-	-
95	30.28	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.52	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.74	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 205 ng/L

Total Nanomoles = 0.932

Average Molecular Weight = 220.2

Number of Calibrated Peaks Found = 75

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

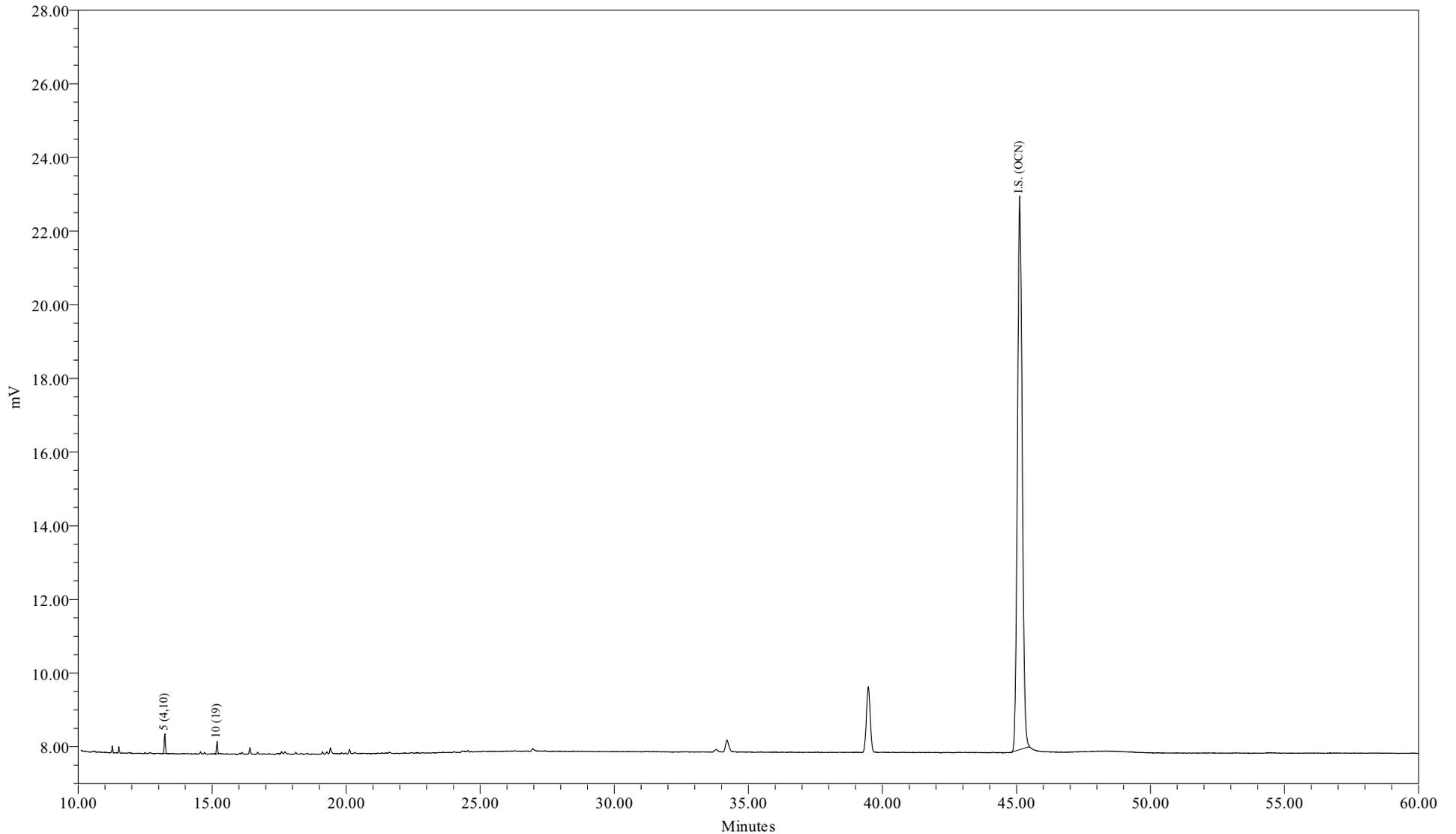
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: AM19658DL1  
Sample ID: WFF-LOC5-091021-BT001  
Date Acquired: 10/23/2009 01:05:15 EDT

Sample Amount (L) : 1.0400  
Dilution: 50  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-13

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 01:05:15  
 Lab Sample ID: AM19658DL1  
 LRF ID: 09100263-01DL1  
 Lab File ID: GC24-204-13

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 106 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	86.07	87.70
Tri	13.93	12.30
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.12  
 Meta + Para Cl / biphenyl Residue = 0.00  
 Total Cl / biphenyl Residue = 2.12

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 01:05:15  
 Lab Sample ID: AM19658DL1  
 LRF ID: 09100263-01DL1  
 Lab File ID: GC24-204-13

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				5.29	21.9	U
3	12.52	188.7				66.3	10000	U
4	12.63	188.7				3.55	12.8	U
5	13.24	223.1	1662	91.2	409	1.34	6.21	U
6	14.06	223.1				0.721	2.19	U
7	14.37	223.1				1.58	3.47	U
8	14.55	223.1				5.42	25.6	U
9	15.11	223.1				2.94	250	U
10	15.18	257.5	876	14.8	57.3	0.604	1.02	U
11	15.64	257.5				1.98	250	U
12	15.72	223.1				3.06	250	U
13	15.92	223.1				0.559	0.975	U
14	16.02	249.0				1.28	6.76	U
15	16.11	257.5				1.43	6.76	U
16	16.41	257.5				0.374	0.475	U
17	16.66	257.5				1.66	7.13	U
19	17.11	267.9				1.28	250	U
20	17.29	257.5				0.108	0.194	U
21	17.42	257.5				0.606	1.32	U
22	17.50	257.5				0.426	0.585	U
23	17.70	257.5				4.87	7.53	U
24	17.75	257.5				2.11	9.64	U
25	18.09	259.5				1.05	7.26	U
26	18.32	258.7				1.20	5.30	U
27	18.54	292.0				0.367	1.63	U
28	18.69	257.5				3.75	250	U
29	18.81	292.0				1.27	1.27	U
30	18.96	257.5				1.20	250	U
31	19.11	292.0				2.04	8.72	U
32	19.28	292.0				0.978	4.20	U
33	19.39	292.0				0.656	1.83	U
34	19.46	292.0				0.579	1.83	U
35	19.59	292.0				2.05	250	U
36	19.69	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				1.60	7.86	U
38	19.97	272.4				1.15	4.75	U
39	20.32	292.0				1.21	7.49	U
41	20.47	326.4				1.15	250	U
42	20.58	292.0				0.968	1.72	U
43	20.83	298.9				1.52	250	U
44	21.01	298.9				0.225	0.402	U
45	21.16	292.0				0.299	0.384	U
46	21.33	292.0				0.821	3.47	U
47	21.46	292.0				1.64	6.21	U
48	21.57	293.5				2.43	13.2	U
49	21.86	324.7				0.376	0.932	U
50	22.17	292.0				3.59	6.40	U
51	22.40	326.4				0.888	3.29	U
52	22.51	326.4				0.384	0.384	U
53	22.66	326.4				0.691	3.29	U
54	22.86	326.4				1.01	1.35	U
55	23.13	326.4				0.0644	0.102	U
56	23.23	326.4				0.647	0.647	U
57	23.44	326.4				0.435	1.02	U
58	23.61	326.4				0.841	2.12	U
59	23.77	326.4				0.484	1.28	U
60	23.88	360.9				0.772	1.37	U
61	24.02	326.4				0.668	3.89	U
62	24.29	360.9				1.13	250	U
63	24.38	326.4				0.201	0.804	U
64	24.68	360.9				0.518	3.11	U
65	24.81	350.5				0.149	0.530	U
66	24.88	360.9				0.541	1.10	U
67	24.95	336.8				0.348	0.475	U
68	25.04	326.4				1.25	250	U
69	25.12	337.5				0.938	7.31	U
70	25.24	360.9				0.829	250	U
71	25.51	347.8				0.348	0.369	U
72	25.71	336.8				0.0638	0.106	U
73	25.98	360.9				0.320	0.713	U
74	26.10	347.8				0.721	2.48	U
75	26.25	360.9				1.09	5.38	U
76	26.37	360.9				1.07	250	U
77	26.76	360.9				0.637	3.11	U
78	26.81	395.3				0.470	2.67	U
79	27.02	360.9				0.501	0.501	U
80	27.16	360.9				0.151	0.475	U
82	27.38	360.9				1.08	4.93	U
83	27.55	360.9				0.450	0.457	U
84	27.74	360.9				0.0310	0.0473	U
85	28.07	395.3				0.677	2.01	U
87	28.36	395.3				0.156	0.731	U
88	28.50	395.3				1.02	6.58	U
89	28.62	360.9				0.199	0.366	U
90	28.79	395.3				0.679	3.11	U
91	29.05	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.225	0.859	U
93	29.72	394.3				1.02	5.85	U
94	29.98	394.3				0.936	3.11	U
95	30.26	382.2				0.871	1.44	U
96	30.51	429.8				0.0942	0.121	U
98	30.68	395.3				0.133	0.139	U
99	31.04	429.8				0.863	0.863	U
100	31.27	395.3				1.27	1.27	U
101	31.54	429.8				2.17	2.17	U
102	31.72	395.3				1.50	11.1	U
103	31.96	395.3				0.640	0.768	U
104	32.25	395.3				0.374	0.438	U
105	32.58	429.8				0.460	0.786	U
106	33.68	395.3				0.538	2.34	U
107	33.95	395.3				0.213	0.768	U
108	34.76	429.8				0.324	0.438	U
109	34.98	429.8				1.16	7.68	U
110	35.50	429.8				1.84	7.86	U
111	36.64	395.3				0.231	0.231	U
112	38.10	429.8				0.368	1.01	U
113	38.59	464.2				0.438	0.903	U
114	39.49	464.2				0.154	0.340	U
115	40.84	429.8				0.969	3.29	U
116	41.67	429.8				0.838	0.838	U
117	46.57	464.2				0.384	1.24	U
118	52.30	498.6				0.126	0.126	U

Total Concentration = 106 ng/L 91.0      322      J

Total Nanomoles = 0.466

Average Molecular Weight = 227.3

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 45.12 minutes

Internal Standard Peak Area = 186557.9

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
Bias Factors: Peak 5 (0.610);

Northeast Analytical, Inc.  
 2190 Technology Drive  
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 (518) 346-4592 Fax (518) 381-6055

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-LOC5-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 01:05:15  
 Lab Sample ID: AM19658DL1  
 LRF ID: 09100263-01DL1  
 Lab File ID: GC24-204-13

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	2		-	-
3	12.52	1:0	002	3		-	-
4	12.63	1:0	003	4		-	-
5	13.24	2:2	004 010	0.2934	2-2; 26	86.069	87.701
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3364	26-2	13.931	12.299
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.41	3:2	024 027		236; 26-3	-	-
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.70	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.54	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046		23-26	-	-
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.86	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.40	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.51	5:3	089		234-26	-	-
53	22.66	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.13	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.23	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.44	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.61	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.29	6:3	154		245-246	-	-
63	24.38	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.81	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.88	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.12	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.25	6:2	153		245-245	-	-
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.02	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162		234-234; 235-345	-	-
90	28.79	7:3	183		2346-245	-	-
91	29.05	6:1	167		245-345	-	-
92	29.37	7:3	185		23456-25	-	-
93	29.72	7:3	174 181		2345-236; 23456-24	-	-
94	29.98	7:3	177		2356-234	-	-
95	30.26	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.51	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.72	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 106 ng/L

Total Nanomoles = 0.466

Average Molecular Weight = 227.3

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09100263</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>09100263-02</u>
Matrix:	<u>Water</u>	Client ID:	<u>WFF-SCHU-091021-BT003</u>
Sample Wt(Dry)/Vol:	<u>1060 mL</u>	Lab Sample ID:	<u>AM19659</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-204-14</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u>10/22/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>10/22/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>10/23/2009 02:10</u>
Analytical SOP Reference:	<u>SOP NE207_03</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm</u>		

OCN (I.S.) Peak Area: 191902

Percent Recovery (50 - 150 %): 112

SAMPLE TOTAL PCB CONCENTRATION: 235 ng/L

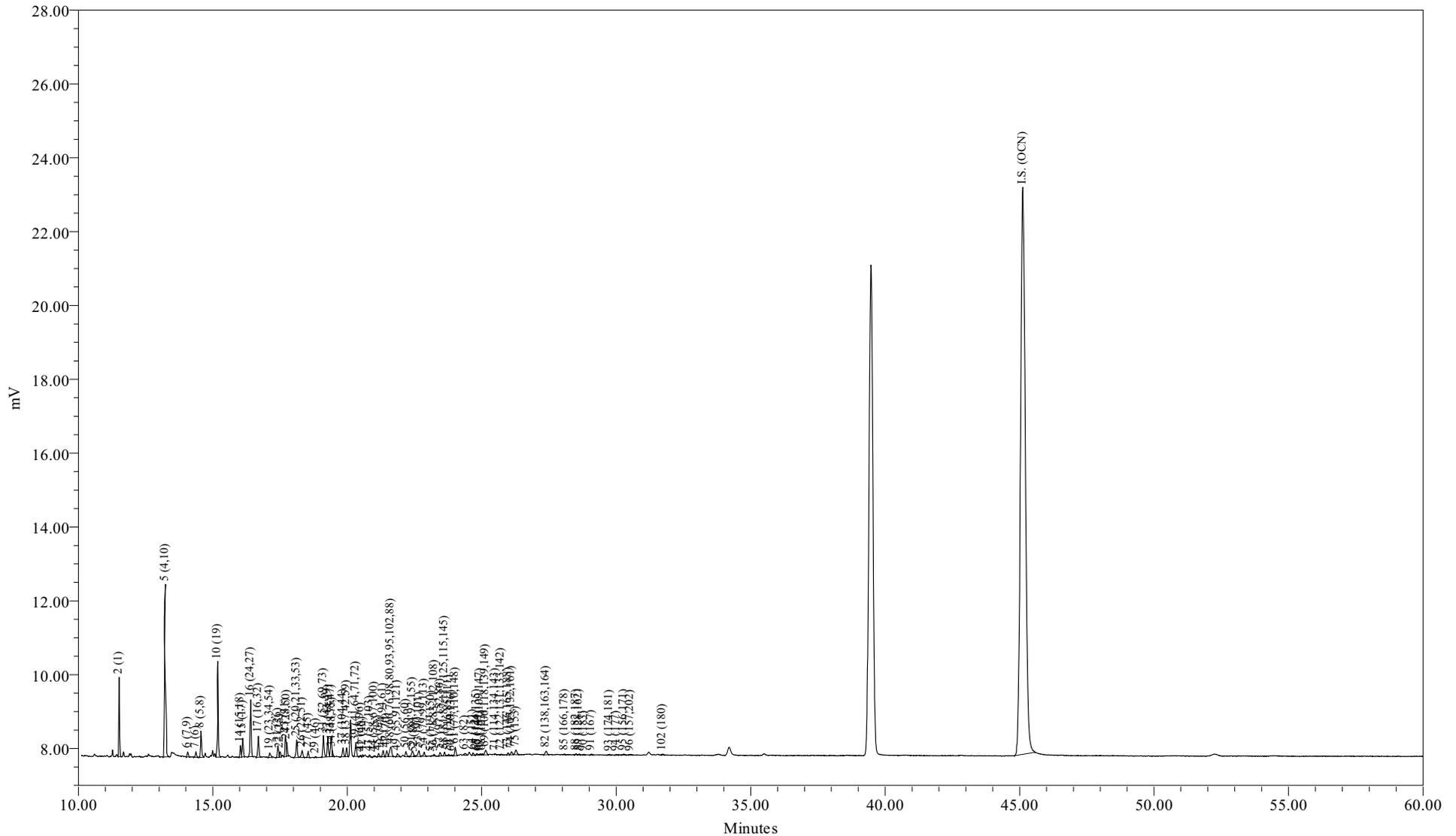
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM19659  
Sample ID: WFF-SCHU-091021-BT003  
Date Acquired: 10/23/2009 02:10:34 EDT

Sample Amount (L) : 1.0600  
Dilution: 5  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-14

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-091021-BT003  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 02:10:34  
 Lab Sample ID: AM19659  
 LRF ID: 09100263-02  
 Lab File ID: GC24-204-14

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 235 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	34.98	40.24
Di	44.58	43.34
Tri	14.11	11.88
Tetra	4.23	3.16
Penta	1.73	1.15
Hexa	0.37	0.22
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	82.1872	96.6	96.7
A1242	23+24/31+28	2.3538	2.77	2.77
A1254SED	61/100	0.5480	0.644	
A1254BIO	69+75+82/149+153+138	0.4946		0.582
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.60

Meta + Para Cl / biphenyl Residue = 0.23

Total Cl / biphenyl Residue = 1.82

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-091021-BT003  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 02:10:34  
 Lab Sample ID: AM19659  
 LRF ID: 09100263-02  
 Lab File ID: GC24-204-14

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.52	188.7	4040	82.2	436	0.529	2.19	
3	12.52	188.7				6.63	1000	U
4	12.63	188.7				0.355	1.28	U
5	13.24	223.1	1856	99.6	446	1.34	6.21	
6	14.06	223.1	450	0.493	2.21	0.0721	0.219	
7	14.37	223.1	437	1.13	5.06	0.158	0.347	
8	14.56	223.1	1995	3.16	14.2	0.542	2.56	
9	15.11	223.1				0.294	25.0	U
10	15.18	257.5	806	13.3	51.6	0.604	1.02	
11	15.64	257.5				0.198	25.0	U
12	15.72	223.1				0.306	25.0	U
13	15.92	223.1				0.0559	0.0975	U
14	16.03	249.0	819	1.54	6.17	0.128	0.676	
15	16.11	257.5	1424	3.55	13.8	0.143	0.676	B
16	16.41	257.5	4432	4.30	16.7	0.0374	0.0475	
17	16.69	257.5	1699	2.92	11.4	0.166	0.713	
19	17.12	267.9	447	0.657	2.45	0.128	25.0	J
20	17.29	257.5				0.0108	0.0194	U
21	17.42	257.5	986	1.38	5.35	0.0606	0.132	B
22	17.51	257.5	493	0.489	1.90	0.0426	0.0585	B
23	17.70	257.5	1697	1.81	7.04	0.487	0.753	
24	17.75	257.5	892	0.541	2.10	0.211	0.964	J
25	18.12	259.5	1570	1.94	7.47	0.105	0.726	
26	18.32	258.7	776	0.966	3.73	0.120	0.530	
27	18.54	292.0	501	0.538	1.84	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.83	292.0	69			0.127	0.127	U
30	18.96	257.5				0.120	25.0	U
31	19.11	292.0	1812	2.77	9.50	0.204	0.872	
32	19.28	292.0	1695	1.37	4.68	0.0978	0.420	
33	19.40	292.0	1742	0.951	3.26	0.0656	0.183	
34	19.44	292.0	311	0.228	0.782	0.0579	0.183	B
35	19.59	292.0				0.205	25.0	U
36	19.69	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0	839	0.466	1.59	0.160	0.786	J
38	19.97	272.4	727	0.873	3.20	0.115	0.475	
39	20.32	292.0	1277	0.871	2.98	0.121	0.749	
41	20.49	326.4	104	0.141	0.433	0.115	25.0	J
42	20.57	292.0	146	0.149	0.509	0.0968	0.172	J
43	20.83	298.9	196	0.189	0.634	0.152	25.0	J
44	21.01	298.9	150	0.108	0.362	0.0225	0.0402	
45	21.16	292.0	279	0.207	0.709	0.0299	0.0384	
46	21.33	292.0	589	0.262	0.899	0.0821	0.347	J
47	21.46	292.0	544	0.191	0.655	0.164	0.621	J
48	21.62	293.5	1363	1.01	3.45	0.243	1.32	J
49	21.86	324.7	380	0.342	1.05	0.0376	0.0932	
50	22.18	292.0	519			0.359	0.640	U
51	22.42	326.4	675	1.09	3.34	0.0888	0.329	
52	22.49	326.4	66	0.0552	0.169	0.0384	0.0384	
53	22.66	326.4	714	0.471	1.44	0.0691	0.329	
54	22.86	326.4	422	0.208	0.638	0.101	0.135	
55	23.13	326.4	50	0.0204	0.0625	0.00644	0.0102	
56	23.24	326.4	143	0.135	0.412	0.0647	0.0647	
57	23.45	326.4	357	0.219	0.672	0.0435	0.102	B
58	23.62	326.4	356	0.235	0.720	0.0841	0.212	
59	23.77	326.4	172	0.104	0.318	0.0484	0.128	JB
60	23.89	360.9	79	0.0856	0.237	0.0772	0.137	J
61	24.02	326.4	805	0.548	1.68	0.0668	0.389	B
62	24.29	360.9				0.113	25.0	U
63	24.38	326.4	285	0.147	0.449	0.0201	0.0804	
64	24.67	360.9	205	0.0719	0.199	0.0518	0.311	J
65	24.81	350.5	131	0.0615	0.176	0.0149	0.0530	
66	24.86	360.9	21			0.0541	0.110	U
67	24.94	336.8	98	0.0749	0.222	0.0348	0.0475	
68	25.03	326.4	96			0.125	25.0	U
69	25.14	337.5	652	0.194	0.575	0.0938	0.731	J
70	25.24	360.9				0.0829	25.0	U
71	25.50	347.8	39			0.0348	0.0369	U
72	25.71	336.8	56	0.0218	0.0647	0.00638	0.0106	
73	25.98	360.9	177	0.1000	0.277	0.0320	0.0713	
74	26.10	347.8	320	0.136	0.392	0.0721	0.248	J
75	26.27	360.9	672	0.191	0.529	0.109	0.538	J
76	26.37	360.9				0.107	25.0	U
77	26.76	360.9				0.0637	0.311	U
78	26.81	395.3				0.0470	0.267	U
79	27.02	360.9				0.0501	0.0501	U
80	27.16	360.9				0.0151	0.0475	U
82	27.39	360.9	464	0.110	0.304	0.108	0.493	J
83	27.55	360.9				0.0450	0.0457	U
84	27.74	360.9				0.00310	0.00473	U
85	28.09	395.3	55			0.0677	0.201	U
87	28.36	395.3				0.0156	0.0731	U
88	28.51	395.3	129			0.102	0.658	U
89	28.62	360.9	73	0.0201	0.0558	0.0199	0.0366	J
90	28.80	395.3	33			0.0679	0.311	U
91	29.08	360.9	88	0.0612	0.170	0.0348	0.0348	

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.0225	0.0859	U
93	29.75	394.3	95			0.102	0.585	U
94	30.00	394.3	76			0.0936	0.311	U
95	30.28	382.2	107			0.0871	0.144	U
96	30.53	429.8	88			0.00942	0.0121	U
98	30.68	395.3				0.0133	0.0139	U
99	31.04	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.54	429.8				0.217	0.217	U
102	31.72	395.3	103			0.150	1.11	U
103	31.96	395.3				0.0640	0.0768	U
104	32.25	395.3				0.0374	0.0438	U
105	32.58	429.8				0.0460	0.0786	U
106	33.68	395.3				0.0538	0.234	U
107	33.95	395.3				0.0213	0.0768	U
108	34.76	429.8				0.0324	0.0438	U
109	34.98	429.8				0.116	0.768	U
110	35.50	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 235 ng/L

10.8

38.7

Total Nanomoles = 1.082

Average Molecular Weight = 217.0

Number of Calibrated Peaks Found = 70

Internal Standard Retention Time = 45.12 minutes

Internal Standard Peak Area = 191901.8

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-091021-BT003  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 02:10:34  
 Lab Sample ID: AM19659  
 LRF ID: 09100263-02  
 Lab File ID: GC24-204-14

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.52	1:1	001	0.2553	2	34.984	40.235
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.24	2:2	004 010	0.2934	2-2; 26	42.378	41.223
6	14.06	2:1	007 009	0.3116	24; 25	0.210	0.204
7	14.37	2:1	006	0.3185	2-3	0.481	0.467
8	14.56	2:1	005 008	0.3227	23; 2-4	1.345	1.309
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3364	26-2	5.653	4.764
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.03	2:0 3:2	015 018	0.3553	4-4; 25-2	0.654	0.570
15	16.11	3:2	017	0.3570	24-2	1.512	1.275
16	16.41	3:2	024 027	0.3637	236; 26-3	1.828	1.541
17	16.69	3:2	016 032	0.3699	23-2; 26-4	1.245	1.049
19	17.12	3:1 4:4	023 034 054	0.3794	235; 35-2; 26-26	0.280	0.226
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026	0.3861	25-3	0.587	0.494
22	17.51	3:1	025	0.3881	24-3	0.208	0.176
23	17.70	3:1	031	0.3923	25-4	0.772	0.650
24	17.75	3:1 4:3	028 050	0.3934	24-4; 246-2	0.230	0.194
25	18.12	3:1 4:3	020 021 033 053	0.4016	23-3; 234; 34-2; 25-26	0.825	0.690
26	18.32	3:1 4:3	022 051	0.4060	23-4; 24-26	0.411	0.345
27	18.54	4:3	045	0.4109	236-2	0.229	0.170
28	18.69	3:0	036		35-3	-	-
29	18.83	4:3	046		23-26	-	-
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4235	25-25; 246-3; 26-35	1.180	0.877
32	19.28	4:2	043 049	0.4273	235-2; 24-25	0.582	0.433
33	19.40	4:2	038 047	0.4300	345; 24-24	0.405	0.301
34	19.44	4:2	048 075	0.4309	245-2; 246-4	0.097	0.072
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044	0.4397	246-26; 23-25	0.198	0.147
38	19.97	3:0 4:2	037 042 059	0.4426	34-4; 23-24; 236-3	0.371	0.296
39	20.32	4:2	041 064 071 072	0.4504	234-2; 236-4; 26-34; 25-35	0.371	0.275

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.49	5:4	068 096	0.4541	24-35; 236-26	0.060	0.040
42	20.57	4:2	040	0.4559	23-23	0.063	0.047
43	20.83	4:1 5:3	057 103	0.4617	235-3; 246-25	0.081	0.059
44	21.01	4:1 5:3	058 067 100	0.4656	23-35; 245-3; 246-24	0.046	0.033
45	21.16	4:1	063	0.4690	235-4	0.088	0.066
46	21.33	4:1 5:3	074 094 061	0.4727	245-4; 235-26; 2345	0.112	0.083
47	21.46	4:1	070	0.4756	25-34	0.081	0.061
48	21.62	4:1 5:3	066 076 098 080 093 095 102 088	0.4792	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.431	0.318
49	21.86	4:1 5:3	055 091 121	0.4845	234-3; 236-24; 246-35	0.146	0.097
50	22.18	4:1	056 060		23-34; 234-4	-	-
51	22.42	5:3 6:4	084 092 155	0.4969	236-23; 235-25; 246-246	0.464	0.309
52	22.49	5:3	089	0.4984	234-26	0.024	0.016
53	22.66	5:2	090 101	0.5022	235-24; 245-25	0.200	0.133
54	22.86	5:2	079 099 113	0.5066	34-35; 245-24; 236-35	0.089	0.059
55	23.13	5:2 6:4	119 150	0.5126	246-34; 236-246	0.009	0.006
56	23.24	5:2	078 083 112 108	0.5151	345-3; 235-23; 2356-3; 2346-3	0.057	0.038
57	23.45	5:2 6:4	097 152 086	0.5197	245-23; 2356-26; 2345-2	0.093	0.062
58	23.62	5:2	081 087 117 125 115 145	0.5235	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.100	0.066
59	23.77	5:2	116 085 111	0.5268	23456; 234-24; 235-35	0.044	0.029
60	23.89	6:4	120 136	0.5295	245-35; 236-236	0.036	0.022
61	24.02	5:2	077 110 148	0.5324	34-34; 236-34; 235-246	0.233	0.155
62	24.29	6:3	154		245-246	-	-
63	24.38	5:2	082	0.5403	234-23	0.062	0.041
64	24.67	6:3	151	0.5468	2356-25	0.031	0.018
65	24.81	5:1 6:3	124 135	0.5499	345-25; 235-236	0.026	0.016
66	24.86	6:3	144		2346-25	-	-
67	24.94	5:1 6:3	107 109 147	0.5527	234-35; 235-34; 2356-24	0.032	0.021
68	25.03	5:1	123		345-24	-	-
69	25.14	5:1 6:3	106 118 139 149	0.5572	2345-3; 245-34; 2346-24; 236-245	0.083	0.053
70	25.24	6:3	140		234-246	-	-
71	25.50	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	122 131 133 142	0.5698	345-23; 2346-23; 235-235; 23456-2	0.009	0.006
73	25.98	6:2	146 165 188	0.5758	235-245; 2356-35; 2356-246	0.043	0.026
74	26.10	5:1 6:3	105 132 161	0.5785	234-34; 234-236; 2346-35	0.058	0.036
75	26.27	6:2	153	0.5822	245-245	0.081	0.049
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.02	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.39	6:2	138 163 164	0.6070	234-245; 2356-34; 236-345	0.047	0.028
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.09	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.51	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162	0.6343	234-234; 235-345	0.009	0.005
90	28.80	7:3	183		2346-245	-	-
91	29.08	6:1	167	0.6445	245-345	0.026	0.016
92	29.37	7:3	185		23456-25	-	-
93	29.75	7:3	174 181		2345-236; 23456-24	-	-
94	30.00	7:3	177		2356-234	-	-
95	30.28	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.72	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 235 ng/L

Total Nanomoles = 1.082

Average Molecular Weight = 217.0

Number of Calibrated Peaks Found = 70

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

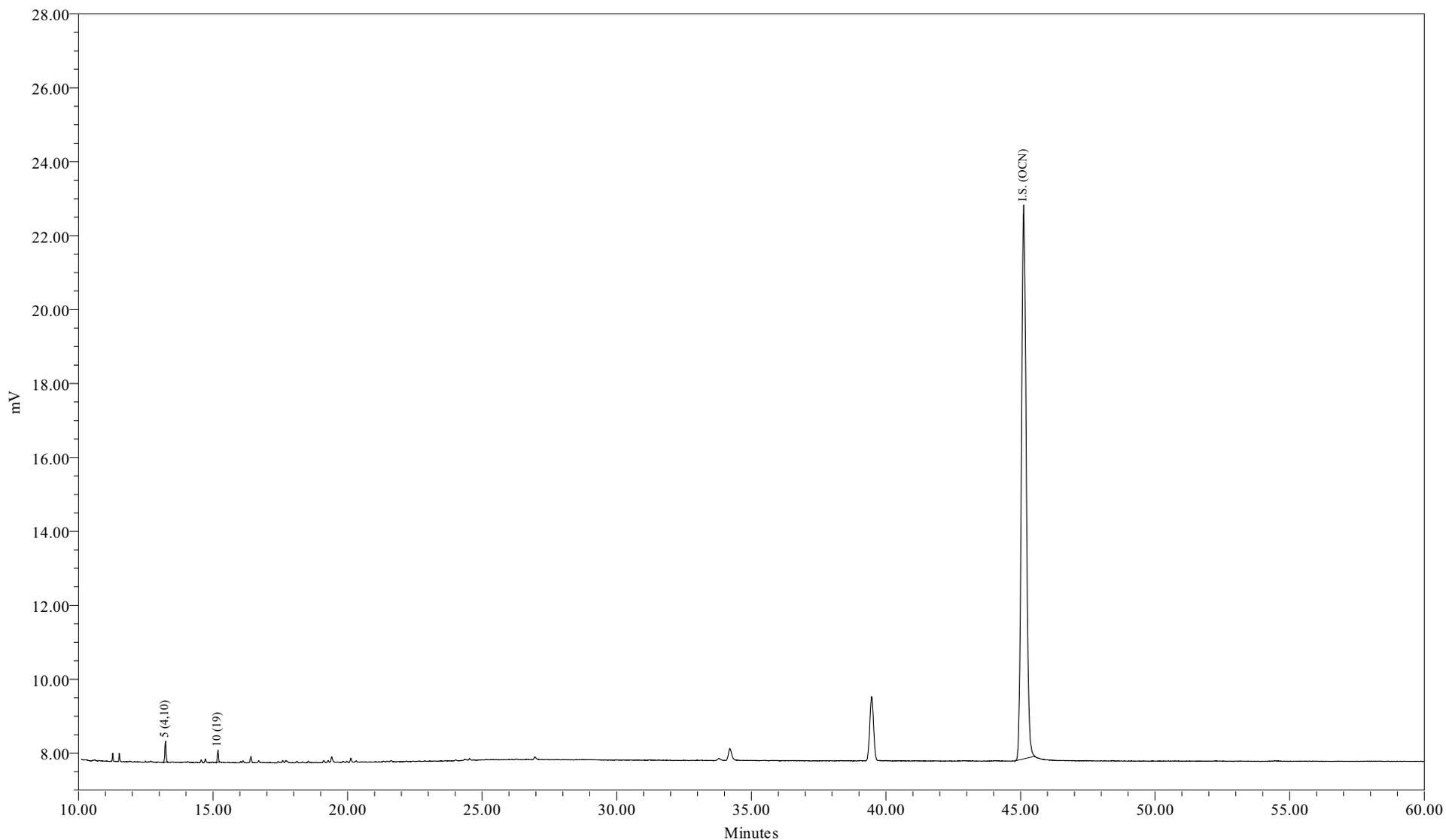
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: AM19659DL1  
Sample ID: WFF-SCHU-091021-BT003  
Date Acquired: 10/23/2009 03:15:52 EDT

Sample Amount (L) : 1.0600  
Dilution: 50  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-15

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-091021-BT003  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 03:15:52  
 Lab Sample ID: AM19659DL1  
 LRF ID: 09100263-02DL1  
 Lab File ID: GC24-204-15

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 113 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	88.23	89.64
Tri	11.77	10.36
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.10  
 Meta + Para Cl / biphenyl Residue = 0.00  
 Total Cl / biphenyl Residue = 2.10

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-091021-BT003  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 03:15:52  
 Lab Sample ID: AM19659DL1  
 LRF ID: 09100263-02DL1  
 Lab File ID: GC24-204-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				5.29	21.9	U
3	12.52	188.7				66.3	10000	U
4	12.63	188.7				3.55	12.8	U
5	13.24	223.1	1856	99.6	446	1.34	6.21	U
6	14.06	223.1				0.721	2.19	U
7	14.37	223.1				1.58	3.47	U
8	14.55	223.1				5.42	25.6	U
9	15.11	223.1				2.94	250	U
10	15.18	257.5	806	13.3	51.6	0.604	1.02	U
11	15.64	257.5				1.98	250	U
12	15.72	223.1				3.06	250	U
13	15.92	223.1				0.559	0.975	U
14	16.02	249.0				1.28	6.76	U
15	16.11	257.5				1.43	6.76	U
16	16.41	257.5				0.374	0.475	U
17	16.66	257.5				1.66	7.13	U
19	17.11	267.9				1.28	250	U
20	17.29	257.5				0.108	0.194	U
21	17.42	257.5				0.606	1.32	U
22	17.50	257.5				0.426	0.585	U
23	17.70	257.5				4.87	7.53	U
24	17.75	257.5				2.11	9.64	U
25	18.09	259.5				1.05	7.26	U
26	18.32	258.7				1.20	5.30	U
27	18.54	292.0				0.367	1.63	U
28	18.69	257.5				3.75	250	U
29	18.81	292.0				1.27	1.27	U
30	18.96	257.5				1.20	250	U
31	19.11	292.0				2.04	8.72	U
32	19.28	292.0				0.978	4.20	U
33	19.39	292.0				0.656	1.83	U
34	19.46	292.0				0.579	1.83	U
35	19.59	292.0				2.05	250	U
36	19.69	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				1.60	7.86	U
38	19.97	272.4				1.15	4.75	U
39	20.32	292.0				1.21	7.49	U
41	20.47	326.4				1.15	250	U
42	20.58	292.0				0.968	1.72	U
43	20.83	298.9				1.52	250	U
44	21.01	298.9				0.225	0.402	U
45	21.16	292.0				0.299	0.384	U
46	21.33	292.0				0.821	3.47	U
47	21.46	292.0				1.64	6.21	U
48	21.57	293.5				2.43	13.2	U
49	21.86	324.7				0.376	0.932	U
50	22.17	292.0				3.59	6.40	U
51	22.40	326.4				0.888	3.29	U
52	22.51	326.4				0.384	0.384	U
53	22.66	326.4				0.691	3.29	U
54	22.86	326.4				1.01	1.35	U
55	23.13	326.4				0.0644	0.102	U
56	23.23	326.4				0.647	0.647	U
57	23.44	326.4				0.435	1.02	U
58	23.61	326.4				0.841	2.12	U
59	23.77	326.4				0.484	1.28	U
60	23.88	360.9				0.772	1.37	U
61	24.02	326.4				0.668	3.89	U
62	24.29	360.9				1.13	250	U
63	24.38	326.4				0.201	0.804	U
64	24.68	360.9				0.518	3.11	U
65	24.81	350.5				0.149	0.530	U
66	24.88	360.9				0.541	1.10	U
67	24.95	336.8				0.348	0.475	U
68	25.04	326.4				1.25	250	U
69	25.12	337.5				0.938	7.31	U
70	25.24	360.9				0.829	250	U
71	25.51	347.8				0.348	0.369	U
72	25.71	336.8				0.0638	0.106	U
73	25.98	360.9				0.320	0.713	U
74	26.10	347.8				0.721	2.48	U
75	26.25	360.9				1.09	5.38	U
76	26.37	360.9				1.07	250	U
77	26.76	360.9				0.637	3.11	U
78	26.81	395.3				0.470	2.67	U
79	27.02	360.9				0.501	0.501	U
80	27.16	360.9				0.151	0.475	U
82	27.38	360.9				1.08	4.93	U
83	27.55	360.9				0.450	0.457	U
84	27.74	360.9				0.0310	0.0473	U
85	28.07	395.3				0.677	2.01	U
87	28.36	395.3				0.156	0.731	U
88	28.50	395.3				1.02	6.58	U
89	28.62	360.9				0.199	0.366	U
90	28.79	395.3				0.679	3.11	U
91	29.05	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.225	0.859	U
93	29.72	394.3				1.02	5.85	U
94	29.98	394.3				0.936	3.11	U
95	30.26	382.2				0.871	1.44	U
96	30.51	429.8				0.0942	0.121	U
98	30.68	395.3				0.133	0.139	U
99	31.04	429.8				0.863	0.863	U
100	31.27	395.3				1.27	1.27	U
101	31.54	429.8				2.17	2.17	U
102	31.72	395.3				1.50	11.1	U
103	31.96	395.3				0.640	0.768	U
104	32.25	395.3				0.374	0.438	U
105	32.58	429.8				0.460	0.786	U
106	33.68	395.3				0.538	2.34	U
107	33.95	395.3				0.213	0.768	U
108	34.76	429.8				0.324	0.438	U
109	34.98	429.8				1.16	7.68	U
110	35.50	429.8				1.84	7.86	U
111	36.64	395.3				0.231	0.231	U
112	38.10	429.8				0.368	1.01	U
113	38.59	464.2				0.438	0.903	U
114	39.49	464.2				0.154	0.340	U
115	40.84	429.8				0.969	3.29	U
116	41.67	429.8				0.838	0.838	U
117	46.57	464.2				0.384	1.24	U
118	52.30	498.6				0.126	0.126	U

Total Concentration = 113 ng/L

91.0

322

J

Total Nanomoles = 0.498

Average Molecular Weight = 226.7

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 45.12 minutes

Internal Standard Peak Area = 187293.2

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-SCHU-091021-BT003  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 03:15:52  
 Lab Sample ID: AM19659DL1  
 LRF ID: 09100263-02DL1  
 Lab File ID: GC24-204-15

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	2		-	-
3	12.52	1:0	002	3		-	-
4	12.63	1:0	003	4		-	-
5	13.24	2:2	004 010	0.2934	2-2; 26	88.231	89.640
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3364	26-2	11.769	10.360
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.41	3:2	024 027		236; 26-3	-	-
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.70	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.54	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046		23-26	-	-
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.86	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.40	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.51	5:3	089		234-26	-	-
53	22.66	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.13	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.23	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.44	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.61	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.29	6:3	154		245-246	-	-
63	24.38	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.81	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.88	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.12	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.25	6:2	153		245-245	-	-
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.02	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162		234-234; 235-345	-	-
90	28.79	7:3	183		2346-245	-	-
91	29.05	6:1	167		245-345	-	-
92	29.37	7:3	185		23456-25	-	-
93	29.72	7:3	174 181		2345-236; 23456-24	-	-
94	29.98	7:3	177		2356-234	-	-
95	30.26	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.51	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.72	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 113 ng/L

Total Nanomoles = 0.498

Average Molecular Weight = 226.7

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09100263
ELAP ID No:	11078	LRF ID:	09100263-03
Matrix:	Water	Client ID:	WFF-THIS-091021-BT003
Sample Wt(Dry)/Vol:	1040 mL	Lab Sample ID:	AM19660
% Moisture:	100	Lab File ID:	GC24-204-16
Extraction:	Solid Phase Extraction - 1L	Date Received:	10/22/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	10/22/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	10/23/2009 04:21
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm		

OCN (I.S.) Peak Area: 190051

Percent Recovery (50 - 150 %): 111

SAMPLE TOTAL PCB CONCENTRATION: 525 ng/L

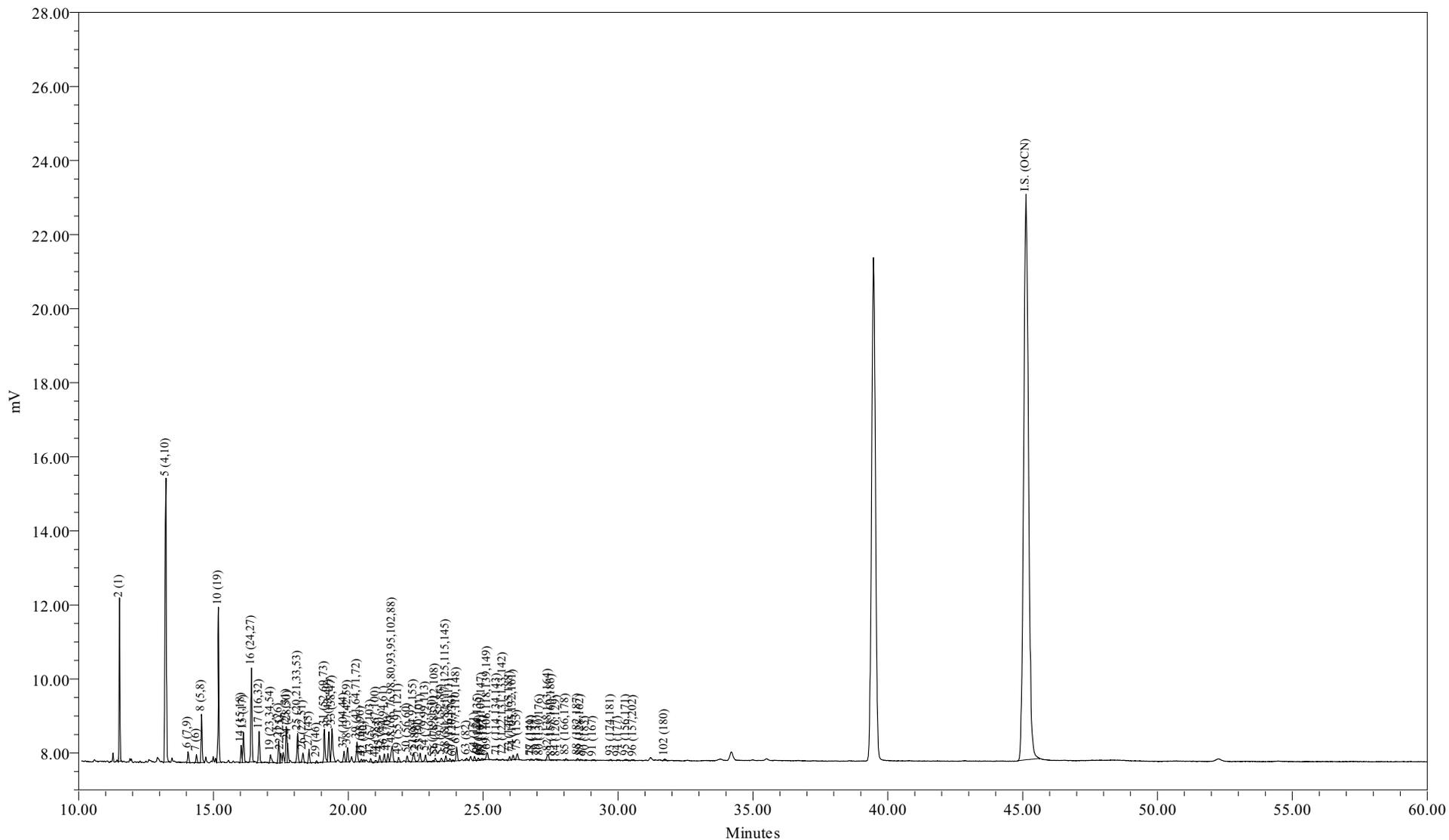
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM19660  
Sample ID: WFF-THIS-091021-BT003  
Date Acquired: 10/23/2009 04:21:10 EDT

Sample Amount (L) : 1.0400  
Dilution: 5  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-16

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-091021-BT003  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 04:21:10  
 Lab Sample ID: AM19660  
 LRF ID: 09100263-03  
 Lab File ID: GC24-204-16

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 525 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	43.81	49.25
Di	40.02	38.04
Tri	11.34	9.34
Tetra	3.31	2.42
Penta	1.19	0.77
Hexa	0.30	0.18
Hepta	0.03	0.02
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	230.0921	97.7	97.7
A1242	23+24/31+28	4.5343	1.93	1.93
A1254SED	61/100	0.8997	0.382	
A1254BIO	69+75+82/149+153+138	0.8014		0.340
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.51

Meta + Para Cl / biphenyl Residue = 0.17

Total Cl / biphenyl Residue = 1.68

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-091021-BT003  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 04:21:10  
 Lab Sample ID: AM19660  
 LRF ID: 09100263-03  
 Lab File ID: GC24-204-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.52	188.7	1069	230	1220	5.29	21.9	
3	12.52	188.7				6.63	1000	U
4	12.63	188.7				0.355	1.28	U
5	13.24	223.1	3609	201	901	1.34	6.21	
6	14.06	223.1	845	1.01	4.55	0.0721	0.219	
7	14.37	223.1	589	1.57	7.03	0.158	0.347	
8	14.56	223.1	3458	5.88	26.4	0.542	2.56	
9	15.11	223.1				0.294	25.0	U
10	15.18	257.5	1443	24.6	95.7	0.604	1.02	
11	15.64	257.5				0.198	25.0	U
12	15.72	223.1				0.306	25.0	U
13	15.92	223.1				0.0559	0.0975	U
14	16.03	249.0	1189	2.38	9.57	0.128	0.676	
15	16.12	257.5	2309	5.99	23.3	0.143	0.676	B
16	16.41	257.5	866	8.93	34.7	0.374	0.475	
17	16.69	257.5	2524	4.53	17.6	0.166	0.713	
19	17.12	267.9	790	1.19	4.46	0.128	25.0	J
20	17.29	257.5				0.0108	0.0194	U
21	17.42	257.5	1813	2.62	10.2	0.0606	0.132	B
22	17.50	257.5	846	0.868	3.37	0.0426	0.0585	B
23	17.70	257.5	3027	3.53	13.7	0.487	0.753	
24	17.75	257.5	1338	1.00	3.89	0.211	0.964	
25	18.12	259.5	2378	3.08	11.9	0.105	0.726	
26	18.32	258.7	855	1.10	4.27	0.120	0.530	
27	18.54	292.0	1143	1.34	4.59	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.83	292.0	181	0.255	0.873	0.127	0.127	
30	18.96	257.5				0.120	25.0	U
31	19.11	292.0	2906	4.72	16.2	0.204	0.872	
32	19.28	292.0	2662	2.23	7.64	0.0978	0.420	
33	19.40	292.0	3450	2.02	6.92	0.0656	0.183	
34	19.46	292.0				0.0579	0.183	U
35	19.59	292.0				0.205	25.0	U
36	19.69	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0	1006	0.671	2.30	0.160	0.786	J
38	19.97	272.4	1192	1.51	5.53	0.115	0.475	
39	20.32	292.0	1889	1.42	4.86	0.121	0.749	
41	20.48	326.4	234	0.327	1.00	0.115	25.0	J
42	20.58	292.0	196	0.202	0.691	0.0968	0.172	
43	20.83	298.9	286	0.283	0.948	0.152	25.0	J
44	21.02	298.9	262	0.197	0.658	0.0225	0.0402	
45	21.16	292.0	625	0.476	1.63	0.0299	0.0384	
46	21.33	292.0	777	0.380	1.30	0.0821	0.347	
47	21.47	292.0	717	0.325	1.11	0.164	0.621	J
48	21.63	293.5	2063	1.80	6.13	0.243	1.32	
49	21.86	324.7	446	0.409	1.26	0.0376	0.0932	
50	22.18	292.0	531			0.359	0.640	U
51	22.43	326.4	1050	1.80	5.50	0.0888	0.329	
52	22.50	326.4	29			0.0384	0.0384	U
53	22.66	326.4	949	0.685	2.10	0.0691	0.329	
54	22.86	326.4	653	0.339	1.04	0.101	0.135	
55	23.14	326.4	113	0.0438	0.134	0.00644	0.0102	
56	23.23	326.4	296	0.280	0.858	0.0647	0.0647	
57	23.45	326.4	334	0.211	0.646	0.0435	0.102	B
58	23.62	326.4	538	0.381	1.17	0.0841	0.212	
59	23.76	326.4	235	0.145	0.444	0.0484	0.128	B
60	23.88	360.9	96	0.106	0.294	0.0772	0.137	J
61	24.02	326.4	1249	0.900	2.76	0.0668	0.389	B
62	24.29	360.9				0.113	25.0	U
63	24.39	326.4	194	0.0948	0.290	0.0201	0.0804	
64	24.68	360.9	346	0.183	0.507	0.0518	0.311	J
65	24.82	350.5	216	0.102	0.292	0.0149	0.0530	
66	24.86	360.9	37			0.0541	0.110	U
67	24.96	336.8	143	0.111	0.328	0.0348	0.0475	
68	25.03	326.4	75			0.125	25.0	U
69	25.16	337.5	872	0.354	1.05	0.0938	0.731	J
70	25.24	360.9				0.0829	25.0	U
71	25.50	347.8	85	0.0592	0.170	0.0348	0.0369	
72	25.73	336.8	56	0.0225	0.0668	0.00638	0.0106	
73	25.98	360.9	313	0.189	0.524	0.0320	0.0713	
74	26.11	347.8	443	0.205	0.591	0.0721	0.248	J
75	26.27	360.9	650	0.186	0.514	0.109	0.538	J
76	26.37	360.9				0.107	25.0	U
77	26.77	360.9	72			0.0637	0.311	U
78	26.82	395.3	34			0.0470	0.267	U
79	27.00	360.9	106	0.0733	0.203	0.0501	0.0501	
80	27.11	360.9	102	0.0333	0.0922	0.0151	0.0475	J
82	27.41	360.9	709	0.262	0.725	0.108	0.493	J
83	27.54	360.9	33			0.0450	0.0457	U
84	27.72	360.9	8			0.00310	0.00473	U
85	28.07	395.3	157	0.117	0.295	0.0677	0.201	J
87	28.36	395.3				0.0156	0.0731	U
88	28.50	395.3	172			0.102	0.658	U
89	28.62	360.9	62			0.0199	0.0366	U
90	28.79	395.3	28			0.0679	0.311	U
91	29.07	360.9	127	0.0884	0.245	0.0348	0.0348	

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.0225	0.0859	U
93	29.73	394.3	93			0.102	0.585	U
94	30.00	394.3	69			0.0936	0.311	U
95	30.30	382.2	172	0.105	0.275	0.0871	0.144	J
96	30.57	429.8	153	0.0145	0.0338	0.00942	0.0121	
98	30.68	395.3				0.0133	0.0139	U
99	31.04	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.54	429.8				0.217	0.217	U
102	31.73	395.3	200			0.150	1.11	U
103	31.96	395.3				0.0640	0.0768	U
104	32.25	395.3				0.0374	0.0438	U
105	32.58	429.8				0.0460	0.0786	U
106	33.68	395.3				0.0538	0.234	U
107	33.95	395.3				0.0213	0.0768	U
108	34.76	429.8				0.0324	0.0438	U
109	34.98	429.8				0.116	0.768	U
110	35.50	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 525 ng/L

15.9

58.8

Total Nanomoles = 2.476

Average Molecular Weight = 212.1

Number of Calibrated Peaks Found = 75

Internal Standard Retention Time = 45.13 minutes

Internal Standard Peak Area = 190051.4

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 (518) 346-4592 Fax (518) 381-6055

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-091021-BT003  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 04:21:10  
 Lab Sample ID: AM19660  
 LRF ID: 09100263-03  
 Lab File ID: GC24-204-16

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.52	1:1	001	0.2553	2	43.812	49.247
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.24	2:2	004 010	0.2934	2-2; 26	38.294	36.408
6	14.06	2:1	007 009	0.3115	24; 25	0.193	0.184
7	14.37	2:1	006	0.3184	2-3	0.299	0.284
8	14.56	2:1	005 008	0.3226	23; 2-4	1.120	1.064
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3364	26-2	4.690	3.863
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.03	2:0 3:2	015 018	0.3552	4-4; 25-2	0.454	0.387
15	16.12	3:2	017	0.3572	24-2	1.141	0.940
16	16.41	3:2	024 027	0.3636	236; 26-3	1.700	1.400
17	16.69	3:2	016 032	0.3698	23-2; 26-4	0.863	0.711
19	17.12	3:1 4:4	023 034 054	0.3793	235; 35-2; 26-26	0.227	0.180
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026	0.3860	25-3	0.499	0.411
22	17.50	3:1	025	0.3878	24-3	0.165	0.136
23	17.70	3:1	031	0.3922	25-4	0.673	0.554
24	17.75	3:1 4:3	028 050	0.3933	24-4; 246-2	0.191	0.157
25	18.12	3:1 4:3	020 021 033 053	0.4015	23-3; 234; 34-2; 25-26	0.586	0.479
26	18.32	3:1 4:3	022 051	0.4059	23-4; 24-26	0.210	0.172
27	18.54	4:3	045	0.4108	236-2	0.255	0.185
28	18.69	3:0	036		35-3	-	-
29	18.83	4:3	046	0.4172	23-26	0.049	0.035
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4234	25-25; 246-3; 26-35	0.899	0.653
32	19.28	4:2	043 049	0.4272	235-2; 24-25	0.425	0.309
33	19.40	4:2	038 047	0.4299	345; 24-24	0.385	0.280
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044	0.4396	246-26; 23-25	0.128	0.093
38	19.97	3:0 4:2	037 042 059	0.4425	34-4; 23-24; 236-3	0.287	0.223
39	20.32	4:2	041 064 071 072	0.4503	234-2; 236-4; 26-34; 25-35	0.270	0.196

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096	0.4538	24-35; 236-26	0.062	0.040
42	20.58	4:2	040	0.4560	23-23	0.038	0.028
43	20.83	4:1 5:3	057 103	0.4616	235-3; 246-25	0.054	0.038
44	21.02	4:1 5:3	058 067 100	0.4658	23-35; 245-3; 246-24	0.037	0.027
45	21.16	4:1	063	0.4689	235-4	0.091	0.066
46	21.33	4:1 5:3	074 094 061	0.4726	245-4; 235-26; 2345	0.072	0.053
47	21.47	4:1	070	0.4757	25-34	0.062	0.045
48	21.63	4:1 5:3	066 076 098 080 093 095 102 088	0.4793	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.342	0.247
49	21.86	4:1 5:3	055 091 121	0.4844	234-3; 236-24; 246-35	0.078	0.051
50	22.18	4:1	056 060		23-34; 234-4	-	-
51	22.43	5:3 6:4	084 092 155	0.4970	236-23; 235-25; 246-246	0.342	0.222
52	22.50	5:3	089		234-26	-	-
53	22.66	5:2	090 101	0.5021	235-24; 245-25	0.130	0.085
54	22.86	5:2	079 099 113	0.5065	34-35; 245-24; 236-35	0.065	0.042
55	23.14	5:2 6:4	119 150	0.5127	246-34; 236-246	0.008	0.005
56	23.23	5:2	078 083 112 108	0.5147	345-3; 235-23; 2356-3; 2346-3	0.053	0.035
57	23.45	5:2 6:4	097 152 086	0.5196	245-23; 2356-26; 2345-2	0.040	0.026
58	23.62	5:2	081 087 117 125 115 145	0.5234	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.073	0.047
59	23.76	5:2	116 085 111	0.5265	23456; 234-24; 235-35	0.028	0.018
60	23.88	6:4	120 136	0.5291	245-35; 236-236	0.020	0.012
61	24.02	5:2	077 110 148	0.5322	34-34; 236-34; 235-246	0.171	0.111
62	24.29	6:3	154		245-246	-	-
63	24.39	5:2	082	0.5404	234-23	0.018	0.012
64	24.68	6:3	151	0.5469	2356-25	0.035	0.020
65	24.82	5:1 6:3	124 135	0.5500	345-25; 235-236	0.020	0.012
66	24.86	6:3	144		2346-25	-	-
67	24.96	5:1 6:3	107 109 147	0.5531	234-35; 235-34; 2356-24	0.021	0.013
68	25.03	5:1	123		345-24	-	-
69	25.16	5:1 6:3	106 118 139 149	0.5575	2345-3; 245-34; 2346-24; 236-245	0.067	0.042
70	25.24	6:3	140		234-246	-	-
71	25.50	5:1 6:3	114 134 143	0.5650	2345-4; 2356-23; 2345-26	0.011	0.007
72	25.73	5:1 6:3	122 131 133 142	0.5701	345-23; 2346-23; 235-235; 23456-2	0.004	0.003
73	25.98	6:2	146 165 188	0.5757	235-245; 2356-35; 2356-246	0.036	0.021
74	26.11	5:1 6:3	105 132 161	0.5786	234-34; 234-236; 2346-35	0.039	0.024
75	26.27	6:2	153	0.5821	245-245	0.035	0.021
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.77	6:2	141		2345-25	-	-
78	26.82	7:4	179		2356-236	-	-
79	27.00	6:2	137	0.5983	2345-24	0.014	0.008
80	27.11	6:2 7:4	130 176	0.6007	234-235; 2346-236	0.006	0.004
82	27.41	6:2	138 163 164	0.6074	234-245; 2356-34; 236-345	0.050	0.029
83	27.54	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.72	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178	0.6220	23456-4; 2356-235	0.022	0.012
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162		234-234; 235-345	-	-
90	28.79	7:3	183		2346-245	-	-
91	29.07	6:1	167	0.6441	245-345	0.017	0.010
92	29.37	7:3	185		23456-25	-	-
93	29.73	7:3	174 181		2345-236; 23456-24	-	-
94	30.00	7:3	177		2356-234	-	-
95	30.30	6:1 7:3	156 171	0.6714	2345-34; 2346-234	0.020	0.011
96	30.57	8:4	157 202	0.6774	234-345; 2356-2356	0.003	0.001
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 525 ng/L

Total Nanomoles = 2.476

Average Molecular Weight = 212.1

Number of Calibrated Peaks Found = 75

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

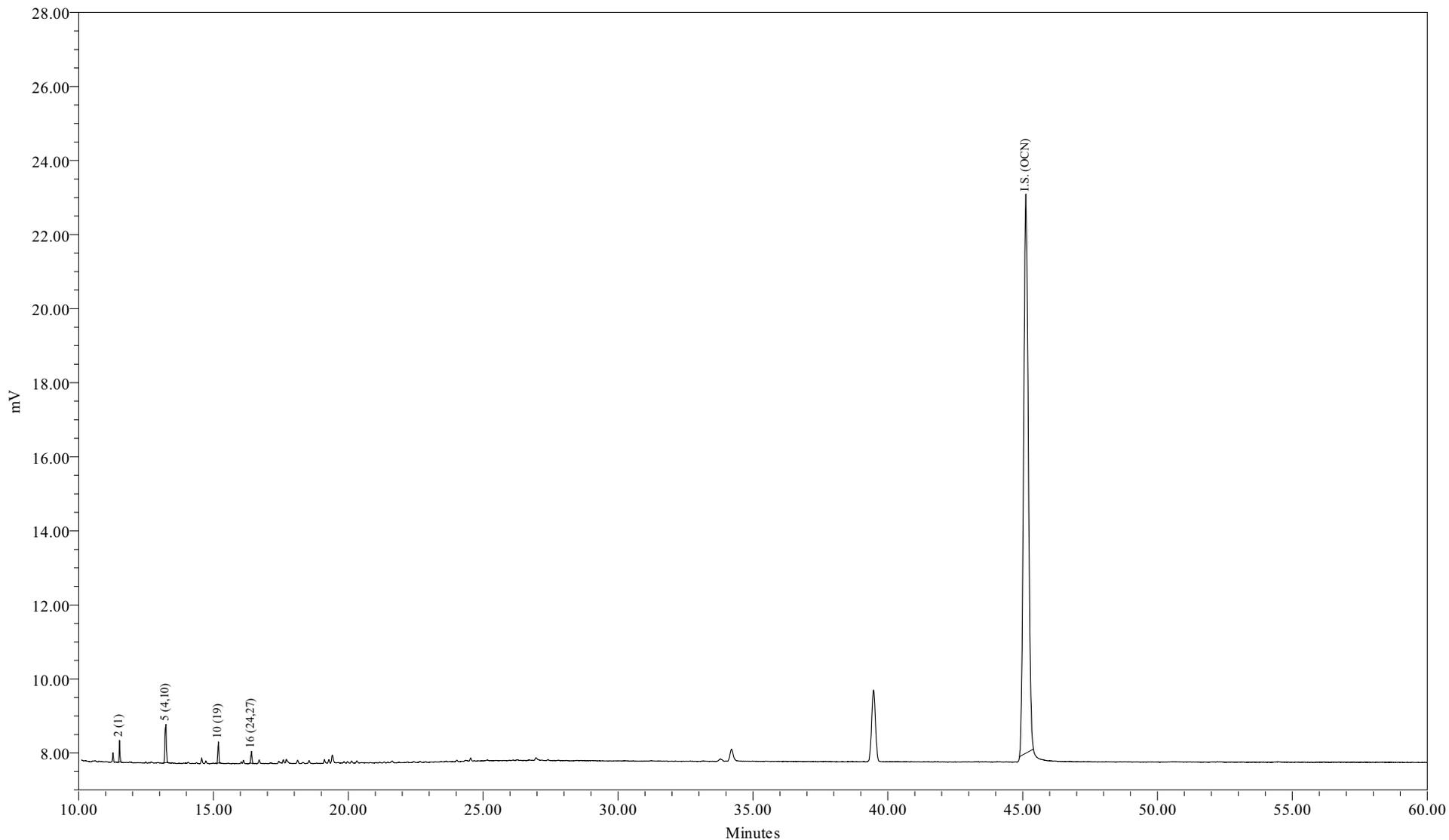
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM19660DL1  
Sample ID: WFF-THIS-091021-BT003  
Date Acquired: 10/23/2009 05:26:26 EDT

Sample Amount (L) : 1.0400  
Dilution: 50  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-17

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-091021-BT003  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 05:26:26  
 Lab Sample ID: AM19660DL1  
 LRF ID: 09100263-03DL1  
 Lab File ID: GC24-204-17

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 465 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	49.51	54.17
Di	43.27	40.04
Tri	7.22	5.79
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	230.0921	100	100
A1242	23+24/31+28		0	0
A1254SED	61/100		0	
A1254BIO	69+75+82/149+153+138			0
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.50

Meta + Para Cl / biphenyl Residue = 0.02

Total Cl / biphenyl Residue = 1.52

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-091021-BT003  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 05:26:26  
 Lab Sample ID: AM19660DL1  
 LRF ID: 09100263-03DL1  
 Lab File ID: GC24-204-17

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.52	188.7	1069	230	1220	5.29	21.9	
3	12.52	188.7				66.3	10000	U
4	12.63	188.7				3.55	12.8	U
5	13.24	223.1	3609	201	901	1.34	6.21	
6	14.06	223.1				0.721	2.19	U
7	14.37	223.1				1.58	3.47	U
8	14.55	223.1				5.42	25.6	U
9	15.11	223.1				2.94	250	U
10	15.18	257.5	1443	24.6	95.7	0.604	1.02	
11	15.64	257.5				1.98	250	U
12	15.72	223.1				3.06	250	U
13	15.92	223.1				0.559	0.975	U
14	16.02	249.0				1.28	6.76	U
15	16.11	257.5				1.43	6.76	U
16	16.41	257.5	866	8.93	34.7	0.374	0.475	
17	16.66	257.5				1.66	7.13	U
19	17.11	267.9				1.28	250	U
20	17.29	257.5				0.108	0.194	U
21	17.42	257.5				0.606	1.32	U
22	17.50	257.5				0.426	0.585	U
23	17.70	257.5				4.87	7.53	U
24	17.75	257.5				2.11	9.64	U
25	18.09	259.5				1.05	7.26	U
26	18.32	258.7				1.20	5.30	U
27	18.54	292.0				0.367	1.63	U
28	18.69	257.5				3.75	250	U
29	18.81	292.0				1.27	1.27	U
30	18.96	257.5				1.20	250	U
31	19.11	292.0				2.04	8.72	U
32	19.28	292.0				0.978	4.20	U
33	19.39	292.0				0.656	1.83	U
34	19.46	292.0				0.579	1.83	U
35	19.59	292.0				2.05	250	U
36	19.69	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				1.60	7.86	U
38	19.97	272.4				1.15	4.75	U
39	20.32	292.0				1.21	7.49	U
41	20.47	326.4				1.15	250	U
42	20.58	292.0				0.968	1.72	U
43	20.83	298.9				1.52	250	U
44	21.01	298.9				0.225	0.402	U
45	21.16	292.0				0.299	0.384	U
46	21.33	292.0				0.821	3.47	U
47	21.46	292.0				1.64	6.21	U
48	21.57	293.5				2.43	13.2	U
49	21.86	324.7				0.376	0.932	U
50	22.17	292.0				3.59	6.40	U
51	22.40	326.4				0.888	3.29	U
52	22.51	326.4				0.384	0.384	U
53	22.66	326.4				0.691	3.29	U
54	22.86	326.4				1.01	1.35	U
55	23.13	326.4				0.0644	0.102	U
56	23.23	326.4				0.647	0.647	U
57	23.44	326.4				0.435	1.02	U
58	23.61	326.4				0.841	2.12	U
59	23.77	326.4				0.484	1.28	U
60	23.88	360.9				0.772	1.37	U
61	24.02	326.4				0.668	3.89	U
62	24.29	360.9				1.13	250	U
63	24.38	326.4				0.201	0.804	U
64	24.68	360.9				0.518	3.11	U
65	24.81	350.5				0.149	0.530	U
66	24.88	360.9				0.541	1.10	U
67	24.95	336.8				0.348	0.475	U
68	25.04	326.4				1.25	250	U
69	25.12	337.5				0.938	7.31	U
70	25.24	360.9				0.829	250	U
71	25.51	347.8				0.348	0.369	U
72	25.71	336.8				0.0638	0.106	U
73	25.98	360.9				0.320	0.713	U
74	26.10	347.8				0.721	2.48	U
75	26.25	360.9				1.09	5.38	U
76	26.37	360.9				1.07	250	U
77	26.76	360.9				0.637	3.11	U
78	26.81	395.3				0.470	2.67	U
79	27.02	360.9				0.501	0.501	U
80	27.16	360.9				0.151	0.475	U
82	27.38	360.9				1.08	4.93	U
83	27.55	360.9				0.450	0.457	U
84	27.74	360.9				0.0310	0.0473	U
85	28.07	395.3				0.677	2.01	U
87	28.36	395.3				0.156	0.731	U
88	28.50	395.3				1.02	6.58	U
89	28.62	360.9				0.199	0.366	U
90	28.79	395.3				0.679	3.11	U
91	29.05	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.225	0.859	U
93	29.72	394.3				1.02	5.85	U
94	29.98	394.3				0.936	3.11	U
95	30.26	382.2				0.871	1.44	U
96	30.51	429.8				0.0942	0.121	U
98	30.68	395.3				0.133	0.139	U
99	31.04	429.8				0.863	0.863	U
100	31.27	395.3				1.27	1.27	U
101	31.54	429.8				2.17	2.17	U
102	31.72	395.3				1.50	11.1	U
103	31.96	395.3				0.640	0.768	U
104	32.25	395.3				0.374	0.438	U
105	32.58	429.8				0.460	0.786	U
106	33.68	395.3				0.538	2.34	U
107	33.95	395.3				0.213	0.768	U
108	34.76	429.8				0.324	0.438	U
109	34.98	429.8				1.16	7.68	U
110	35.50	429.8				1.84	7.86	U
111	36.64	395.3				0.231	0.231	U
112	38.10	429.8				0.368	1.01	U
113	38.59	464.2				0.438	0.903	U
114	39.49	464.2				0.154	0.340	U
115	40.84	429.8				0.969	3.29	U
116	41.67	429.8				0.838	0.838	U
117	46.57	464.2				0.384	1.24	U
118	52.30	498.6				0.126	0.126	U

Total Concentration = 465 ng/L

91.0

322

Total Nanomoles = 2.251

Average Molecular Weight = 206.5

Number of Calibrated Peaks Found = 4

Internal Standard Retention Time = 45.12 minutes

Internal Standard Peak Area = 183457.5

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-THIS-091021-BT003  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 05:26:26  
 Lab Sample ID: AM19660DL1  
 LRF ID: 09100263-03DL1  
 Lab File ID: GC24-204-17

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.52	1:1	001	0.2553	2	49.507	54.166
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.24	2:2	004 010	0.2934	2-2; 26	43.272	40.044
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3364	26-2	5.300	4.249
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.41	3:2	024 027	0.3637	236; 26-3	1.921	1.540
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.70	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.54	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046		23-26	-	-
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.86	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.40	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.51	5:3	089		234-26	-	-
53	22.66	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.13	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.23	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.44	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.61	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.29	6:3	154		245-246	-	-
63	24.38	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.81	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.88	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.12	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.25	6:2	153		245-245	-	-
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.02	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162		234-234; 235-345	-	-
90	28.79	7:3	183		2346-245	-	-
91	29.05	6:1	167		245-345	-	-
92	29.37	7:3	185		23456-25	-	-
93	29.72	7:3	174 181		2345-236; 23456-24	-	-
94	29.98	7:3	177		2356-234	-	-
95	30.26	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.51	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.72	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 465 ng/L

Total Nanomoles = 2.251

Average Molecular Weight = 206.5

Number of Calibrated Peaks Found = 4

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

**PCB SAMPLE ANALYSIS DATA SHEET**

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09100263</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>09100263-04</u>
Matrix:	<u>Water</u>	Client ID:	<u>WFF-TIDA-091021-BT001</u>
Sample Wt(Dry)/Vol:	<u>1080 mL</u>	Lab Sample ID:	<u>AM19661</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-204-18</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u>10/22/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>10/22/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>10/23/2009 06:31</u>
Analytical SOP Reference:	<u>SOP NE207_03</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm</u>		

OCN (I.S.) Peak Area: 183524

Percent Recovery (50 - 150 %): 107

SAMPLE TOTAL PCB CONCENTRATION: 296 ng/L

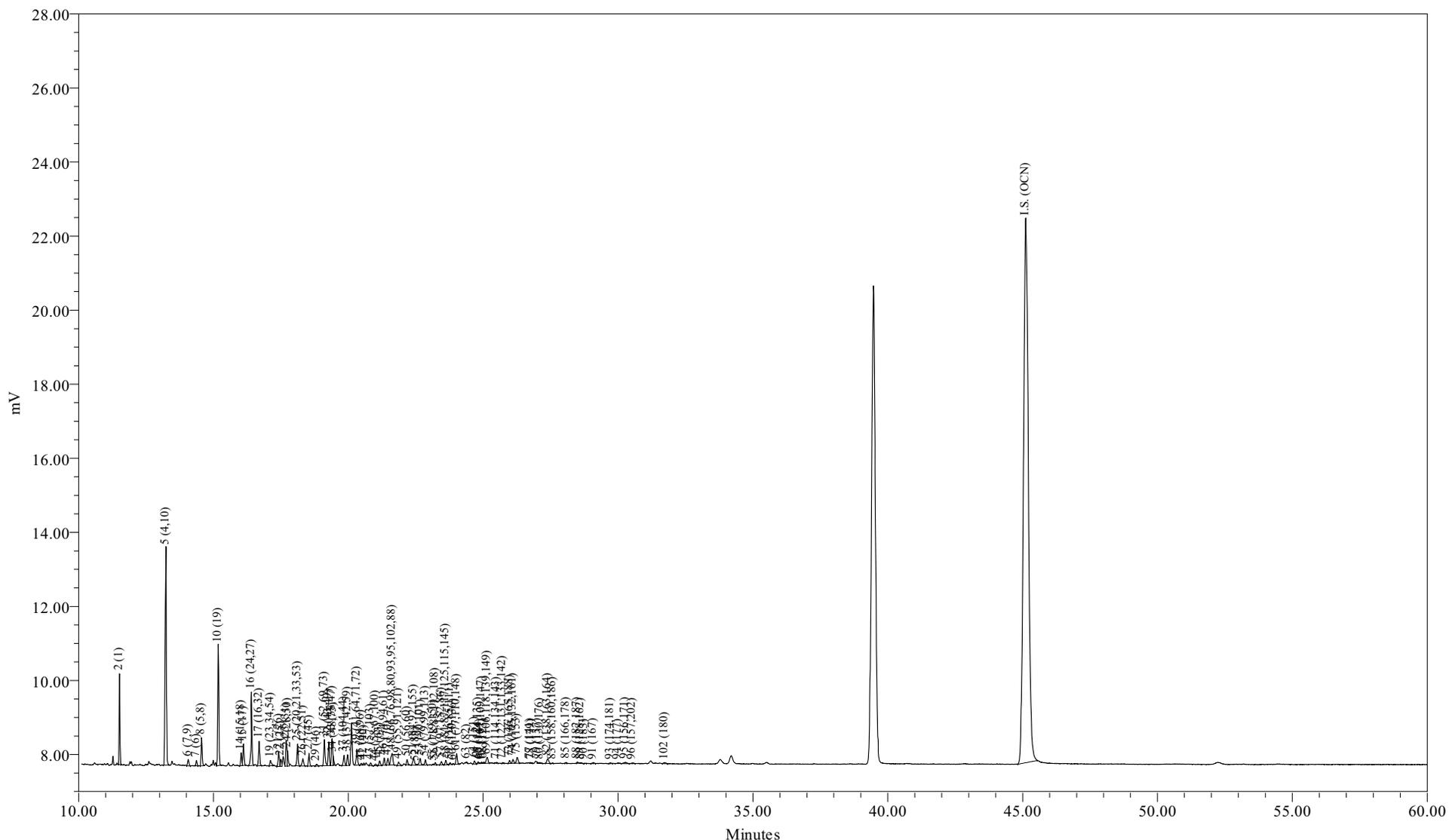
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM19661  
Sample ID: WFF-TIDA-091021-BT001  
Date Acquired: 10/23/2009 06:31:40 EDT

Sample Amount (L) : 1.0800  
Dilution: 5  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-18

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 06:31:40  
 Lab Sample ID: AM19661  
 LRF ID: 09100263-04  
 Lab File ID: GC24-204-18

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 296 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	32.69	37.81
Di	46.04	45.03
Tri	14.42	12.21
Tetra	4.67	3.51
Penta	1.66	1.11
Hexa	0.49	0.30
Hepta	0.03	0.02
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	96.6843	96.2	96.2
A1242	23+24/31+28	3.1118	3.10	3.10
A1254SED	61/100	0.6812	0.678	
A1254BIO	69+75+82/149+153+138	0.6870		0.684
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.63

Meta + Para Cl / biphenyl Residue = 0.23

Total Cl / biphenyl Residue = 1.86

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 06:31:40  
 Lab Sample ID: AM19661  
 LRF ID: 09100263-04  
 Lab File ID: GC24-204-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.52	188.7	4628	96.7	512	0.529	2.19	
3	12.52	188.7				6.63	1000	U
4	12.63	188.7				0.355	1.28	U
5	13.24	223.1	2376	131	586	1.34	6.21	
6	14.06	223.1	591	0.690	3.09	0.0721	0.219	
7	14.37	223.1	381	1.01	4.52	0.158	0.347	
8	14.56	223.1	2028	3.32	14.9	0.542	2.56	
9	15.11	223.1				0.294	25.0	U
10	15.18	257.5	1060	17.9	69.5	0.604	1.02	
11	15.64	257.5				0.198	25.0	U
12	15.72	223.1				0.306	25.0	U
13	15.92	223.1				0.0559	0.0975	U
14	16.03	249.0	917	1.79	7.21	0.128	0.676	
15	16.12	257.5	1610	4.14	16.1	0.143	0.676	B
16	16.41	257.5	584	5.93	23.0	0.374	0.475	
17	16.69	257.5	1932	3.44	13.3	0.166	0.713	
19	17.12	267.9	520	0.784	2.93	0.128	25.0	J
20	17.29	257.5				0.0108	0.0194	U
21	17.42	257.5	1236	1.78	6.90	0.0606	0.132	B
22	17.50	257.5	611	0.623	2.42	0.0426	0.0585	B
23	17.70	257.5	2077	2.35	9.11	0.487	0.753	
24	17.75	257.5	1090	0.765	2.97	0.211	0.964	J
25	18.12	259.5	1817	2.33	8.96	0.105	0.726	
26	18.32	258.7	783	1.00	3.88	0.120	0.530	
27	18.54	292.0	1039	1.21	4.15	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.82	292.0	211	0.296	1.01	0.127	0.127	
30	18.96	257.5				0.120	25.0	U
31	19.11	292.0	2235	3.58	12.2	0.204	0.872	
32	19.28	292.0	2028	1.69	5.78	0.0978	0.420	
33	19.40	292.0	2356	1.35	4.63	0.0656	0.183	
34	19.44	292.0	446	0.343	1.17	0.0579	0.183	B
35	19.59	292.0				0.205	25.0	U
36	19.69	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0	962	0.636	2.18	0.160	0.786	J
38	19.97	272.4	945	1.18	4.34	0.115	0.475	
39	20.32	292.0	1559	1.14	3.91	0.121	0.749	
41	20.48	326.4	154	0.214	0.655	0.115	25.0	J
42	20.58	292.0	166	0.172	0.589	0.0968	0.172	
43	20.82	298.9	238	0.235	0.787	0.152	25.0	J
44	21.00	298.9	186	0.138	0.462	0.0225	0.0402	
45	21.16	292.0	440	0.334	1.14	0.0299	0.0384	
46	21.33	292.0	655	0.311	1.07	0.0821	0.347	J
47	21.46	292.0	618	0.259	0.886	0.164	0.621	J
48	21.63	293.5	1613	1.33	4.52	0.243	1.32	
49	21.86	324.7	400	0.367	1.13	0.0376	0.0932	
50	22.18	292.0	447			0.359	0.640	U
51	22.43	326.4	831	1.40	4.30	0.0888	0.329	
52	22.50	326.4	51	0.0432	0.132	0.0384	0.0384	
53	22.66	326.4	789	0.551	1.69	0.0691	0.329	
54	22.86	326.4	504	0.258	0.792	0.101	0.135	
55	23.15	326.4	82	0.0324	0.0991	0.00644	0.0102	
56	23.23	326.4	214	0.203	0.622	0.0647	0.0647	
57	23.45	326.4	356	0.224	0.687	0.0435	0.102	B
58	23.61	326.4	435	0.302	0.926	0.0841	0.212	
59	23.78	326.4	189	0.117	0.358	0.0484	0.128	JB
60	23.89	360.9	70	0.0775	0.215	0.0772	0.137	J
61	24.02	326.4	960	0.681	2.09	0.0668	0.389	B
62	24.29	360.9				0.113	25.0	U
63	24.39	326.4	74	0.0210	0.0642	0.0201	0.0804	J
64	24.68	360.9	299	0.149	0.413	0.0518	0.311	J
65	24.82	350.5	157	0.0751	0.214	0.0149	0.0530	
66	24.87	360.9	10			0.0541	0.110	U
67	24.94	336.8	141	0.108	0.322	0.0348	0.0475	
68	25.02	326.4	100			0.125	25.0	U
69	25.15	337.5	728	0.263	0.778	0.0938	0.731	J
70	25.24	360.9				0.0829	25.0	U
71	25.49	347.8	103	0.0721	0.207	0.0348	0.0369	
72	25.72	336.8	57	0.0230	0.0683	0.00638	0.0106	
73	25.98	360.9	271	0.162	0.450	0.0320	0.0713	
74	26.10	347.8	383	0.175	0.502	0.0721	0.248	J
75	26.26	360.9	703	0.221	0.613	0.109	0.538	J
76	26.37	360.9				0.107	25.0	U
77	26.74	360.9	31			0.0637	0.311	U
78	26.80	395.3	20			0.0470	0.267	U
79	27.01	360.9	77	0.0506	0.140	0.0501	0.0501	
80	27.11	360.9	110	0.0359	0.0994	0.0151	0.0475	J
82	27.39	360.9	603	0.203	0.563	0.108	0.493	J
83	27.57	360.9	38			0.0450	0.0457	U
84	27.74	360.9				0.00310	0.00473	U
85	28.07	395.3	70			0.0677	0.201	U
87	28.36	395.3				0.0156	0.0731	U
88	28.49	395.3	139			0.102	0.658	U
89	28.62	360.9	79	0.0231	0.0640	0.0199	0.0366	J
90	28.75	395.3	47			0.0679	0.311	U
91	29.08	360.9	180	0.123	0.340	0.0348	0.0348	

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.0225	0.0859	U
93	29.72	394.3	124			0.102	0.585	U
94	30.00	394.3	137			0.0936	0.311	U
95	30.27	382.2	263	0.163	0.426	0.0871	0.144	
96	30.52	429.8	119	0.0115	0.0267	0.00942	0.0121	J
98	30.68	395.3				0.0133	0.0139	U
99	31.04	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.54	429.8				0.217	0.217	U
102	31.73	395.3	207			0.150	1.11	U
103	31.96	395.3				0.0640	0.0768	U
104	32.25	395.3				0.0374	0.0438	U
105	32.58	429.8				0.0460	0.0786	U
106	33.68	395.3				0.0538	0.234	U
107	33.95	395.3				0.0213	0.0768	U
108	34.76	429.8				0.0324	0.0438	U
109	34.98	429.8				0.116	0.768	U
110	35.50	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 296 ng/L

11.2 39.1

Total Nanomoles = 1.355

Average Molecular Weight = 218.3

Number of Calibrated Peaks Found = 75

Internal Standard Retention Time = 45.11 minutes

Internal Standard Peak Area = 183523.6

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 06:31:40  
 Lab Sample ID: AM19661  
 LRF ID: 09100263-04  
 Lab File ID: GC24-204-18

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.52	1:1	001	0.2554	2	32.686	37.814
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.24	2:2	004 010	0.2935	2-2; 26	44.193	43.243
6	14.06	2:1	007 009	0.3117	24; 25	0.233	0.228
7	14.37	2:1	006	0.3186	2-3	0.341	0.334
8	14.56	2:1	005 008	0.3228	23; 2-4	1.121	1.097
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3365	26-2	6.049	5.128
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.03	2:0 3:2	015 018	0.3554	4-4; 25-2	0.607	0.532
15	16.12	3:2	017	0.3573	24-2	1.399	1.186
16	16.41	3:2	024 027	0.3638	236; 26-3	2.006	1.700
17	16.69	3:2	016 032	0.3700	23-2; 26-4	1.161	0.985
19	17.12	3:1 4:4	023 034 054	0.3795	235; 35-2; 26-26	0.265	0.216
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026	0.3862	25-3	0.601	0.509
22	17.50	3:1	025	0.3879	24-3	0.211	0.179
23	17.70	3:1	031	0.3924	25-4	0.793	0.673
24	17.75	3:1 4:3	028 050	0.3935	24-4; 246-2	0.259	0.219
25	18.12	3:1 4:3	020 021 033 053	0.4017	23-3; 234; 34-2; 25-26	0.786	0.661
26	18.32	3:1 4:3	022 051	0.4061	23-4; 24-26	0.340	0.287
27	18.54	4:3	045	0.4110	236-2	0.409	0.306
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046	0.4172	23-26	0.100	0.075
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	1.209	0.904
32	19.28	4:2	043 049	0.4274	235-2; 24-25	0.570	0.426
33	19.40	4:2	038 047	0.4301	345; 24-24	0.458	0.342
34	19.44	4:2	048 075	0.4309	245-2; 246-4	0.116	0.087
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044	0.4398	246-26; 23-25	0.215	0.161
38	19.97	3:0 4:2	037 042 059	0.4427	34-4; 23-24; 236-3	0.400	0.320
39	20.32	4:2	041 064 071 072	0.4505	234-2; 236-4; 26-34; 25-35	0.386	0.289

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096	0.4540	24-35; 236-26	0.072	0.048
42	20.58	4:2	040	0.4562	23-23	0.058	0.043
43	20.82	4:1 5:3	057 103	0.4615	235-3; 246-25	0.080	0.058
44	21.00	4:1 5:3	058 067 100	0.4655	23-35; 245-3; 246-24	0.047	0.034
45	21.16	4:1	063	0.4691	235-4	0.113	0.084
46	21.33	4:1 5:3	074 094 061	0.4728	245-4; 235-26; 2345	0.105	0.079
47	21.46	4:1	070	0.4757	25-34	0.087	0.065
48	21.63	4:1 5:3	066 076 098 080 093 095 102 088	0.4795	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.448	0.333
49	21.86	4:1 5:3	055 091 121	0.4846	234-3; 236-24; 246-35	0.124	0.084
50	22.18	4:1	056 060		23-34; 234-4	-	-
51	22.43	5:3 6:4	084 092 155	0.4972	236-23; 235-25; 246-246	0.474	0.317
52	22.50	5:3	089	0.4988	234-26	0.015	0.010
53	22.66	5:2	090 101	0.5023	235-24; 245-25	0.186	0.125
54	22.86	5:2	079 099 113	0.5068	34-35; 245-24; 236-35	0.087	0.058
55	23.15	5:2 6:4	119 150	0.5132	246-34; 236-246	0.011	0.007
56	23.23	5:2	078 083 112 108	0.5150	345-3; 235-23; 2356-3; 2346-3	0.069	0.046
57	23.45	5:2 6:4	097 152 086	0.5198	245-23; 2356-26; 2345-2	0.076	0.051
58	23.61	5:2	081 087 117 125 115 145	0.5234	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.102	0.068
59	23.78	5:2	116 085 111	0.5272	23456; 234-24; 235-35	0.040	0.026
60	23.89	6:4	120 136	0.5296	245-35; 236-236	0.026	0.016
61	24.02	5:2	077 110 148	0.5325	34-34; 236-34; 235-246	0.230	0.154
62	24.29	6:3	154		245-246	-	-
63	24.39	5:2	082	0.5407	234-23	0.007	0.005
64	24.68	6:3	151	0.5471	2356-25	0.050	0.031
65	24.82	5:1 6:3	124 135	0.5502	345-25; 235-236	0.025	0.016
66	24.87	6:3	144		2346-25	-	-
67	24.94	5:1 6:3	107 109 147	0.5529	234-35; 235-34; 2356-24	0.037	0.024
68	25.02	5:1	123		345-24	-	-
69	25.15	5:1 6:3	106 118 139 149	0.5575	2345-3; 245-34; 2346-24; 236-245	0.089	0.057
70	25.24	6:3	140		234-246	-	-
71	25.49	5:1 6:3	114 134 143	0.5651	2345-4; 2356-23; 2345-26	0.024	0.015
72	25.72	5:1 6:3	122 131 133 142	0.5702	345-23; 2346-23; 235-235; 23456-2	0.008	0.005
73	25.98	6:2	146 165 188	0.5759	235-245; 2356-35; 2356-246	0.055	0.033
74	26.10	5:1 6:3	105 132 161	0.5786	234-34; 234-236; 2346-35	0.059	0.037
75	26.26	6:2	153	0.5821	245-245	0.075	0.045
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.74	6:2	141		2345-25	-	-
78	26.80	7:4	179		2356-236	-	-
79	27.01	6:2	137	0.5988	2345-24	0.017	0.010
80	27.11	6:2 7:4	130 176	0.6010	234-235; 2346-236	0.012	0.007
82	27.39	6:2	138 163 164	0.6072	234-245; 2356-34; 236-345	0.069	0.042
83	27.57	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.49	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162	0.6344	234-234; 235-345	0.008	0.005
90	28.75	7:3	183		2346-245	-	-
91	29.08	6:1	167	0.6446	245-345	0.041	0.025
92	29.37	7:3	185		23456-25	-	-
93	29.72	7:3	174 181		2345-236; 23456-24	-	-
94	30.00	7:3	177		2356-234	-	-
95	30.27	6:1 7:3	156 171	0.6710	2345-34; 2346-234	0.055	0.031
96	30.52	8:4	157 202	0.6766	234-345; 2356-2356	0.004	0.002
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.73	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 296 ng/L

Total Nanomoles = 1.355

Average Molecular Weight = 218.3

Number of Calibrated Peaks Found = 75

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

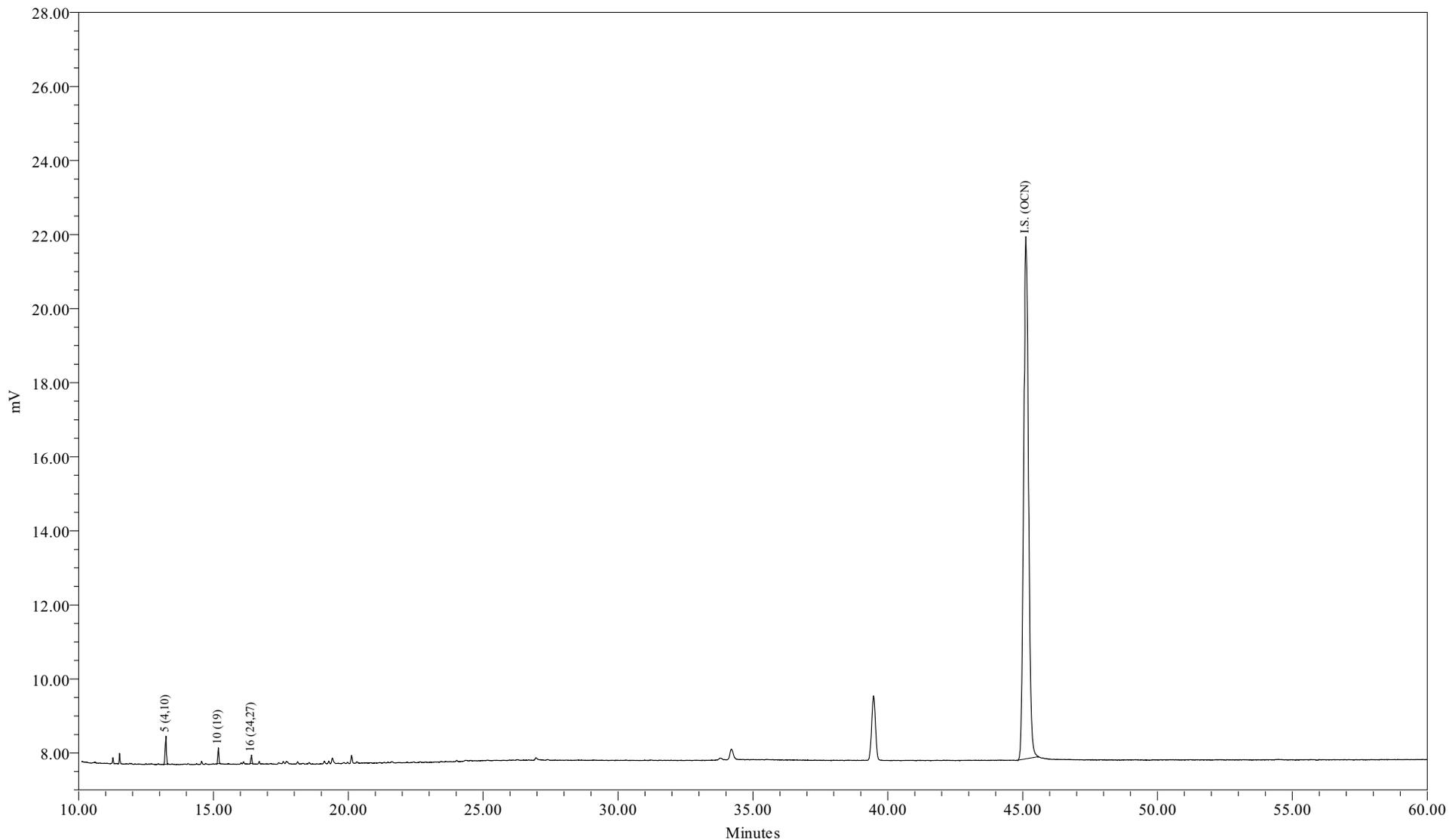
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM19661DL1  
Sample ID: WFF-TIDA-091021-BT001  
Date Acquired: 10/23/2009 07:36:55 EDT

Sample Amount (L) : 1.0800  
Dilution: 50  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-19

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 07:36:55  
 Lab Sample ID: AM19661DL1  
 LRF ID: 09100263-04DL1  
 Lab File ID: GC24-204-19

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 155 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	84.58	86.36
Tri	15.42	13.64
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.10

Meta + Para Cl / biphenyl Residue = 0.03

Total Cl / biphenyl Residue = 2.14

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 07:36:55  
 Lab Sample ID: AM19661DL1  
 LRF ID: 09100263-04DL1  
 Lab File ID: GC24-204-19

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				5.29	21.9	U
3	12.52	188.7				66.3	10000	U
4	12.63	188.7				3.55	12.8	U
5	13.24	223.1	2376	131	586	1.34	6.21	U
6	14.06	223.1				0.721	2.19	U
7	14.37	223.1				1.58	3.47	U
8	14.55	223.1				5.42	25.6	U
9	15.11	223.1				2.94	250	U
10	15.18	257.5	1060	17.9	69.5	0.604	1.02	U
11	15.64	257.5				1.98	250	U
12	15.72	223.1				3.06	250	U
13	15.92	223.1				0.559	0.975	U
14	16.02	249.0				1.28	6.76	U
15	16.11	257.5				1.43	6.76	U
16	16.41	257.5	584	5.93	23.0	0.374	0.475	U
17	16.66	257.5				1.66	7.13	U
19	17.11	267.9				1.28	250	U
20	17.29	257.5				0.108	0.194	U
21	17.42	257.5				0.606	1.32	U
22	17.50	257.5				0.426	0.585	U
23	17.70	257.5				4.87	7.53	U
24	17.75	257.5				2.11	9.64	U
25	18.09	259.5				1.05	7.26	U
26	18.32	258.7				1.20	5.30	U
27	18.54	292.0				0.367	1.63	U
28	18.69	257.5				3.75	250	U
29	18.81	292.0				1.27	1.27	U
30	18.96	257.5				1.20	250	U
31	19.11	292.0				2.04	8.72	U
32	19.28	292.0				0.978	4.20	U
33	19.39	292.0				0.656	1.83	U
34	19.46	292.0				0.579	1.83	U
35	19.59	292.0				2.05	250	U
36	19.69	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				1.60	7.86	U
38	19.97	272.4				1.15	4.75	U
39	20.32	292.0				1.21	7.49	U
41	20.47	326.4				1.15	250	U
42	20.58	292.0				0.968	1.72	U
43	20.83	298.9				1.52	250	U
44	21.01	298.9				0.225	0.402	U
45	21.16	292.0				0.299	0.384	U
46	21.33	292.0				0.821	3.47	U
47	21.46	292.0				1.64	6.21	U
48	21.57	293.5				2.43	13.2	U
49	21.86	324.7				0.376	0.932	U
50	22.17	292.0				3.59	6.40	U
51	22.40	326.4				0.888	3.29	U
52	22.51	326.4				0.384	0.384	U
53	22.66	326.4				0.691	3.29	U
54	22.86	326.4				1.01	1.35	U
55	23.13	326.4				0.0644	0.102	U
56	23.23	326.4				0.647	0.647	U
57	23.44	326.4				0.435	1.02	U
58	23.61	326.4				0.841	2.12	U
59	23.77	326.4				0.484	1.28	U
60	23.88	360.9				0.772	1.37	U
61	24.02	326.4				0.668	3.89	U
62	24.29	360.9				1.13	250	U
63	24.38	326.4				0.201	0.804	U
64	24.68	360.9				0.518	3.11	U
65	24.81	350.5				0.149	0.530	U
66	24.88	360.9				0.541	1.10	U
67	24.95	336.8				0.348	0.475	U
68	25.04	326.4				1.25	250	U
69	25.12	337.5				0.938	7.31	U
70	25.24	360.9				0.829	250	U
71	25.51	347.8				0.348	0.369	U
72	25.71	336.8				0.0638	0.106	U
73	25.98	360.9				0.320	0.713	U
74	26.10	347.8				0.721	2.48	U
75	26.25	360.9				1.09	5.38	U
76	26.37	360.9				1.07	250	U
77	26.76	360.9				0.637	3.11	U
78	26.81	395.3				0.470	2.67	U
79	27.02	360.9				0.501	0.501	U
80	27.16	360.9				0.151	0.475	U
82	27.38	360.9				1.08	4.93	U
83	27.55	360.9				0.450	0.457	U
84	27.74	360.9				0.0310	0.0473	U
85	28.07	395.3				0.677	2.01	U
87	28.36	395.3				0.156	0.731	U
88	28.50	395.3				1.02	6.58	U
89	28.62	360.9				0.199	0.366	U
90	28.79	395.3				0.679	3.11	U
91	29.05	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.225	0.859	U
93	29.72	394.3				1.02	5.85	U
94	29.98	394.3				0.936	3.11	U
95	30.26	382.2				0.871	1.44	U
96	30.51	429.8				0.0942	0.121	U
98	30.68	395.3				0.133	0.139	U
99	31.04	429.8				0.863	0.863	U
100	31.27	395.3				1.27	1.27	U
101	31.54	429.8				2.17	2.17	U
102	31.72	395.3				1.50	11.1	U
103	31.96	395.3				0.640	0.768	U
104	32.25	395.3				0.374	0.438	U
105	32.58	429.8				0.460	0.786	U
106	33.68	395.3				0.538	2.34	U
107	33.95	395.3				0.213	0.768	U
108	34.76	429.8				0.324	0.438	U
109	34.98	429.8				1.16	7.68	U
110	35.50	429.8				1.84	7.86	U
111	36.64	395.3				0.231	0.231	U
112	38.10	429.8				0.368	1.01	U
113	38.59	464.2				0.438	0.903	U
114	39.49	464.2				0.154	0.340	U
115	40.84	429.8				0.969	3.29	U
116	41.67	429.8				0.838	0.838	U
117	46.57	464.2				0.384	1.24	U
118	52.30	498.6				0.126	0.126	U

Total Concentration = 155 ng/L

91.0

322

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Total Nanomoles = 0.678

Average Molecular Weight = 227.8

Number of Calibrated Peaks Found = 3

Internal Standard Retention Time = 45.12 minutes

Internal Standard Peak Area = 179046.6

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-TIDA-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 07:36:55  
 Lab Sample ID: AM19661DL1  
 LRF ID: 09100263-04DL1  
 Lab File ID: GC24-204-19

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	2		-	-
3	12.52	1:0	002	3		-	-
4	12.63	1:0	003	4		-	-
5	13.24	2:2	004 010	0.2934	2-2; 26	84.583	86.362
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3364	26-2	11.578	10.242
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.41	3:2	024 027	0.3637	236; 26-3	3.839	3.396
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.70	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.54	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046		23-26	-	-
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.86	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.40	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.51	5:3	089		234-26	-	-
53	22.66	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.13	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.23	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.44	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.61	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.29	6:3	154		245-246	-	-
63	24.38	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.81	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.88	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.12	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.25	6:2	153		245-245	-	-
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.02	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162		234-234; 235-345	-	-
90	28.79	7:3	183		2346-245	-	-
91	29.05	6:1	167		245-345	-	-
92	29.37	7:3	185		23456-25	-	-
93	29.72	7:3	174 181		2345-236; 23456-24	-	-
94	29.98	7:3	177		2356-234	-	-
95	30.26	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.51	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.72	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 155 ng/L

Total Nanomoles = 0.678

Average Molecular Weight = 227.8

Number of Calibrated Peaks Found = 3

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	<u>Northeast Analytical, Inc.</u>	SDG No:	<u>09100263</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>09100263-05</u>
Matrix:	<u>Water</u>	Client ID:	<u>WFF-WAFA-091021-BT001</u>
Sample Wt(Dry)/Vol:	<u>1080 mL</u>	Lab Sample ID:	<u>AM19662</u>
% Moisture:	<u>100</u>	Lab File ID:	<u>GC24-204-20</u>
Extraction:	<u>Solid Phase Extraction - 1L</u>	Date Received:	<u>10/22/2009</u>
Conc. Extract Volume:	<u>5000 uL</u>	Date Extracted:	<u>10/22/2009</u>
Injection Volume:	<u>1.0 uL</u>	Date/Time Analyzed:	<u>10/23/2009 08:42</u>
Analytical SOP Reference:	<u>SOP NE207_03</u>	Dilution Factor:	<u>1</u>
Extraction SOP Reference:	<u>SOP NE178_03.DOC</u>	Sample Cleanup:	<u>YES</u>
GC Column:	<u>PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm</u>		

OCN (I.S.) Peak Area: 188274

Percent Recovery (50 - 150 %): 110

SAMPLE TOTAL PCB CONCENTRATION: 205 ng/L

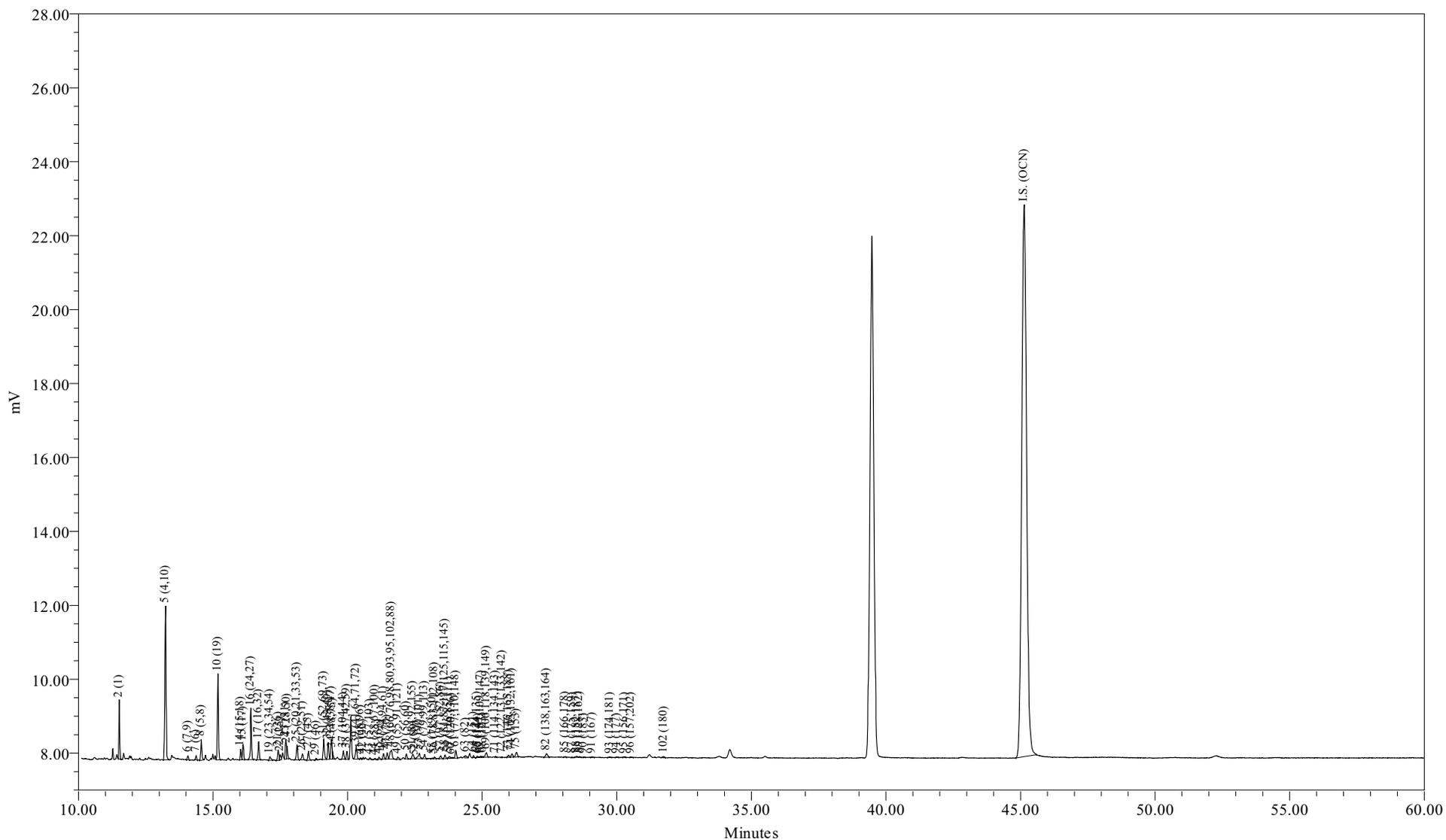
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM19662  
Sample ID: WFF-WAFA-091021-BT001  
Date Acquired: 10/23/2009 08:42:19 EDT

Sample Amount (L) : 1.0800  
Dilution: 5  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-20

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 08:42:19  
 Lab Sample ID: AM19662  
 LRF ID: 09100263-05  
 Lab File ID: GC24-204-20

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 205 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	29.31	34.18
Di	48.23	47.54
Tri	15.45	13.19
Tetra	4.75	3.60
Penta	1.80	1.22
Hexa	0.44	0.27
Hepta	0.02	0.01
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	59.9884	95.7	95.7
A1242	23+24/31+28	2.2037	3.51	3.52
A1254SED	61/100	0.5072	0.809	
A1254BIO	69+75+82/149+153+138	0.4813		0.768
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.67

Meta + Para Cl / biphenyl Residue = 0.24

Total Cl / biphenyl Residue = 1.91

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 08:42:19  
 Lab Sample ID: AM19662  
 LRF ID: 09100263-05  
 Lab File ID: GC24-204-20

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.52	188.7	2951	60.0	318	0.529	2.19	
3	12.52	188.7				6.63	1000	U
4	12.63	188.7				0.355	1.28	U
5	13.24	223.1	1781	94.8	425	1.34	6.21	
6	14.07	223.1	348	0.369	1.65	0.0721	0.219	
7	14.37	223.1	290	0.748	3.35	0.158	0.347	
8	14.56	223.1	1563	2.41	10.8	0.542	2.56	J
9	15.11	223.1				0.294	25.0	U
10	15.18	257.5	885	14.5	56.2	0.604	1.02	
11	15.64	257.5				0.198	25.0	U
12	15.72	223.1				0.306	25.0	U
13	15.92	223.1				0.0559	0.0975	U
14	16.03	249.0	715	1.32	5.30	0.128	0.676	
15	16.12	257.5	1144	2.84	11.0	0.143	0.676	B
16	16.41	257.5	4045	3.92	15.2	0.0374	0.0475	
17	16.70	257.5	1431	2.45	9.51	0.166	0.713	
19	17.12	267.9	380	0.558	2.08	0.128	25.0	J
20	17.29	257.5				0.0108	0.0194	U
21	17.42	257.5	869	1.21	4.72	0.0606	0.132	B
22	17.51	257.5	450	0.447	1.74	0.0426	0.0585	B
23	17.70	257.5	1634	1.74	6.77	0.487	0.753	
24	17.75	257.5	802	0.461	1.79	0.211	0.964	J
25	18.12	259.5	1277	1.56	6.01	0.105	0.726	
26	18.32	258.7	643	0.787	3.04	0.120	0.530	
27	18.55	292.0	773	0.863	2.96	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.82	292.0	146	0.202	0.690	0.127	0.127	
30	18.96	257.5				0.120	25.0	U
31	19.12	292.0	1690	2.58	8.82	0.204	0.872	
32	19.28	292.0	1431	1.15	3.94	0.0978	0.420	
33	19.40	292.0	1732	0.947	3.24	0.0656	0.183	
34	19.44	292.0	358	0.266	0.910	0.0579	0.183	B
35	19.59	292.0				0.205	25.0	U
36	19.69	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0	771	0.400	1.37	0.160	0.786	J
38	19.97	272.4	663	0.793	2.91	0.115	0.475	
39	20.32	292.0	1349	0.934	3.20	0.121	0.749	
41	20.48	326.4	93	0.126	0.387	0.115	25.0	J
42	20.58	292.0	112	0.116	0.398	0.0968	0.172	J
43	20.83	298.9	128			0.152	25.0	U
44	21.02	298.9	124	0.0889	0.297	0.0225	0.0402	
45	21.17	292.0	227	0.169	0.577	0.0299	0.0384	
46	21.33	292.0	507	0.217	0.745	0.0821	0.347	J
47	21.47	292.0	569	0.213	0.729	0.164	0.621	J
48	21.63	293.5	1354	1.01	3.45	0.243	1.32	J
49	21.86	324.7	258	0.240	0.738	0.0376	0.0932	
50	22.18	292.0	480			0.359	0.640	U
51	22.43	326.4	560	0.892	2.73	0.0888	0.329	
52	22.51	326.4	31			0.0384	0.0384	U
53	22.67	326.4	791	0.537	1.64	0.0691	0.329	
54	22.86	326.4	400	0.197	0.604	0.101	0.135	
55	23.16	326.4	54	0.0215	0.0659	0.00644	0.0102	
56	23.23	326.4	153	0.143	0.439	0.0647	0.0647	
57	23.46	326.4	304	0.187	0.573	0.0435	0.102	B
58	23.62	326.4	370	0.246	0.753	0.0841	0.212	
59	23.77	326.4	252	0.151	0.462	0.0484	0.128	B
60	23.87	360.9	100	0.107	0.295	0.0772	0.137	J
61	24.02	326.4	748	0.507	1.55	0.0668	0.389	B
62	24.29	360.9				0.113	25.0	U
63	24.39	326.4	293	0.152	0.466	0.0201	0.0804	
64	24.68	360.9	157			0.0518	0.311	U
65	24.81	350.5	117	0.0554	0.158	0.0149	0.0530	
66	24.86	360.9	50	0.0592	0.164	0.0541	0.110	J
67	24.96	336.8	113	0.0859	0.255	0.0348	0.0475	
68	25.03	326.4	80			0.125	25.0	U
69	25.16	337.5	587	0.155	0.459	0.0938	0.731	J
70	25.24	360.9				0.0829	25.0	U
71	25.49	347.8	38			0.0348	0.0369	U
72	25.74	336.8	16			0.00638	0.0106	U
73	25.97	360.9	244	0.141	0.392	0.0320	0.0713	
74	26.11	347.8	351	0.153	0.440	0.0721	0.248	J
75	26.28	360.9	634	0.173	0.480	0.109	0.538	J
76	26.37	360.9				0.107	25.0	U
77	26.76	360.9				0.0637	0.311	U
78	26.81	395.3				0.0470	0.267	U
79	27.02	360.9				0.0501	0.0501	U
80	27.16	360.9				0.0151	0.0475	U
82	27.40	360.9	533	0.153	0.424	0.108	0.493	J
83	27.55	360.9				0.0450	0.0457	U
84	27.74	360.9				0.00310	0.00473	U
85	28.09	395.3	68			0.0677	0.201	U
87	28.34	395.3	31	0.0398	0.101	0.0156	0.0731	J
88	28.52	395.3	119			0.102	0.658	U
89	28.61	360.9	60			0.0199	0.0366	U
90	28.78	395.3	24			0.0679	0.311	U
91	29.09	360.9	78	0.0544	0.151	0.0348	0.0348	

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.0225	0.0859	U
93	29.75	394.3	71			0.102	0.585	U
94	30.00	394.3	49			0.0936	0.311	U
95	30.30	382.2	91			0.0871	0.144	U
96	30.53	429.8	82			0.00942	0.0121	U
98	30.68	395.3				0.0133	0.0139	U
99	31.04	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.54	429.8				0.217	0.217	U
102	31.75	395.3	141			0.150	1.11	U
103	31.96	395.3				0.0640	0.0768	U
104	32.25	395.3				0.0374	0.0438	U
105	32.58	429.8				0.0460	0.0786	U
106	33.68	395.3				0.0538	0.234	U
107	33.95	395.3				0.0213	0.0768	U
108	34.76	429.8				0.0324	0.0438	U
109	34.98	429.8				0.116	0.768	U
110	35.50	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 205 ng/L

10.8

38.7

Total Nanomoles = 0.930

Average Molecular Weight = 220.0

Number of Calibrated Peaks Found = 71

Internal Standard Retention Time = 45.14 minutes

Internal Standard Peak Area = 188273.9

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 08:42:19  
 Lab Sample ID: AM19662  
 LRF ID: 09100263-05  
 Lab File ID: GC24-204-20

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.52	1:1	001	0.2552	2	29.312	34.175
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.24	2:2	004 010	0.2933	2-2; 26	46.344	45.701
6	14.07	2:1	007 009	0.3117	24; 25	0.180	0.178
7	14.37	2:1	006	0.3183	2-3	0.365	0.360
8	14.56	2:1	005 008	0.3226	23; 2-4	1.180	1.163
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3363	26-2	7.070	6.041
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.03	2:0 3:2	015 018	0.3551	4-4; 25-2	0.645	0.570
15	16.12	3:2	017	0.3571	24-2	1.387	1.185
16	16.41	3:2	024 027	0.3635	236; 26-3	1.916	1.637
17	16.70	3:2	016 032	0.3700	23-2; 26-4	1.197	1.023
19	17.12	3:1 4:4	023 034 054	0.3793	235; 35-2; 26-26	0.273	0.224
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026	0.3859	25-3	0.593	0.507
22	17.51	3:1	025	0.3879	24-3	0.218	0.187
23	17.70	3:1	031	0.3921	25-4	0.851	0.727
24	17.75	3:1 4:3	028 050	0.3932	24-4; 246-2	0.225	0.193
25	18.12	3:1 4:3	020 021 033 053	0.4014	23-3; 234; 34-2; 25-26	0.762	0.646
26	18.32	3:1 4:3	022 051	0.4058	23-4; 24-26	0.385	0.327
27	18.55	4:3	045	0.4109	236-2	0.422	0.318
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046	0.4169	23-26	0.098	0.074
30	18.96	3:0	039		35-4	-	-
31	19.12	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	1.259	0.949
32	19.28	4:2	043 049	0.4271	235-2; 24-25	0.562	0.423
33	19.40	4:2	038 047	0.4298	345; 24-24	0.463	0.348
34	19.44	4:2	048 075	0.4307	245-2; 246-4	0.130	0.098
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044	0.4395	246-26; 23-25	0.196	0.147
38	19.97	3:0 4:2	037 042 059	0.4424	34-4; 23-24; 236-3	0.387	0.313
39	20.32	4:2	041 064 071 072	0.4502	234-2; 236-4; 26-34; 25-35	0.456	0.344

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.48	5:4	068 096	0.4537	24-35; 236-26	0.062	0.042
42	20.58	4:2	040	0.4559	23-23	0.057	0.043
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.02	4:1 5:3	058 067 100	0.4657	23-35; 245-3; 246-24	0.043	0.032
45	21.17	4:1	063	0.4690	235-4	0.082	0.062
46	21.33	4:1 5:3	074 094 061	0.4725	245-4; 235-26; 2345	0.106	0.080
47	21.47	4:1	070	0.4756	25-34	0.104	0.078
48	21.63	4:1 5:3	066 076 098 080 093 095 102 088	0.4792	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.494	0.370
49	21.86	4:1 5:3	055 091 121	0.4843	234-3; 236-24; 246-35	0.117	0.079
50	22.18	4:1	056 060		23-34; 234-4	-	-
51	22.43	5:3 6:4	084 092 155	0.4969	236-23; 235-25; 246-246	0.436	0.294
52	22.51	5:3	089		234-26	-	-
53	22.67	5:2	090 101	0.5022	235-24; 245-25	0.262	0.177
54	22.86	5:2	079 099 113	0.5064	34-35; 245-24; 236-35	0.096	0.065
55	23.16	5:2 6:4	119 150	0.5131	246-34; 236-246	0.011	0.007
56	23.23	5:2	078 083 112 108	0.5146	345-3; 235-23; 2356-3; 2346-3	0.070	0.047
57	23.46	5:2 6:4	097 152 086	0.5197	245-23; 2356-26; 2345-2	0.091	0.062
58	23.62	5:2	081 087 117 125 115 145	0.5233	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.120	0.081
59	23.77	5:2	116 085 111	0.5266	23456; 234-24; 235-35	0.074	0.050
60	23.87	6:4	120 136	0.5288	245-35; 236-236	0.052	0.032
61	24.02	5:2	077 110 148	0.5321	34-34; 236-34; 235-246	0.248	0.167
62	24.29	6:3	154		245-246	-	-
63	24.39	5:2	082	0.5403	234-23	0.074	0.050
64	24.68	6:3	151		2356-25	-	-
65	24.81	5:1 6:3	124 135	0.5496	345-25; 235-236	0.027	0.017
66	24.86	6:3	144	0.5507	2346-25	0.029	0.018
67	24.96	5:1 6:3	107 109 147	0.5529	234-35; 235-34; 2356-24	0.042	0.027
68	25.03	5:1	123		345-24	-	-
69	25.16	5:1 6:3	106 118 139 149	0.5574	2345-3; 245-34; 2346-24; 236-245	0.076	0.049
70	25.24	6:3	140		234-246	-	-
71	25.49	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.74	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.97	6:2	146 165 188	0.5753	235-245; 2356-35; 2356-246	0.069	0.042
74	26.11	5:1 6:3	105 132 161	0.5784	234-34; 234-236; 2346-35	0.075	0.047
75	26.28	6:2	153	0.5822	245-245	0.085	0.052
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.02	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.40	6:2	138 163 164	0.6070	234-245; 2356-34; 236-345	0.075	0.046
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.09	7:3	166 178		23456-4; 2356-235	-	-
87	28.34	7:3	175 159	0.6278	2346-235; 2345-35	0.019	0.011
88	28.52	7:3	182 187		2345-246; 2356-245	-	-
89	28.61	6:2	128 162		234-234; 235-345	-	-
90	28.78	7:3	183		2346-245	-	-
91	29.09	6:1	167	0.6444	245-345	0.027	0.016
92	29.37	7:3	185		23456-25	-	-
93	29.75	7:3	174 181		2345-236; 23456-24	-	-
94	30.00	7:3	177		2356-234	-	-
95	30.30	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.53	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.75	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 205 ng/L

Total Nanomoles = 0.930

Average Molecular Weight = 220.0

Number of Calibrated Peaks Found = 71

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

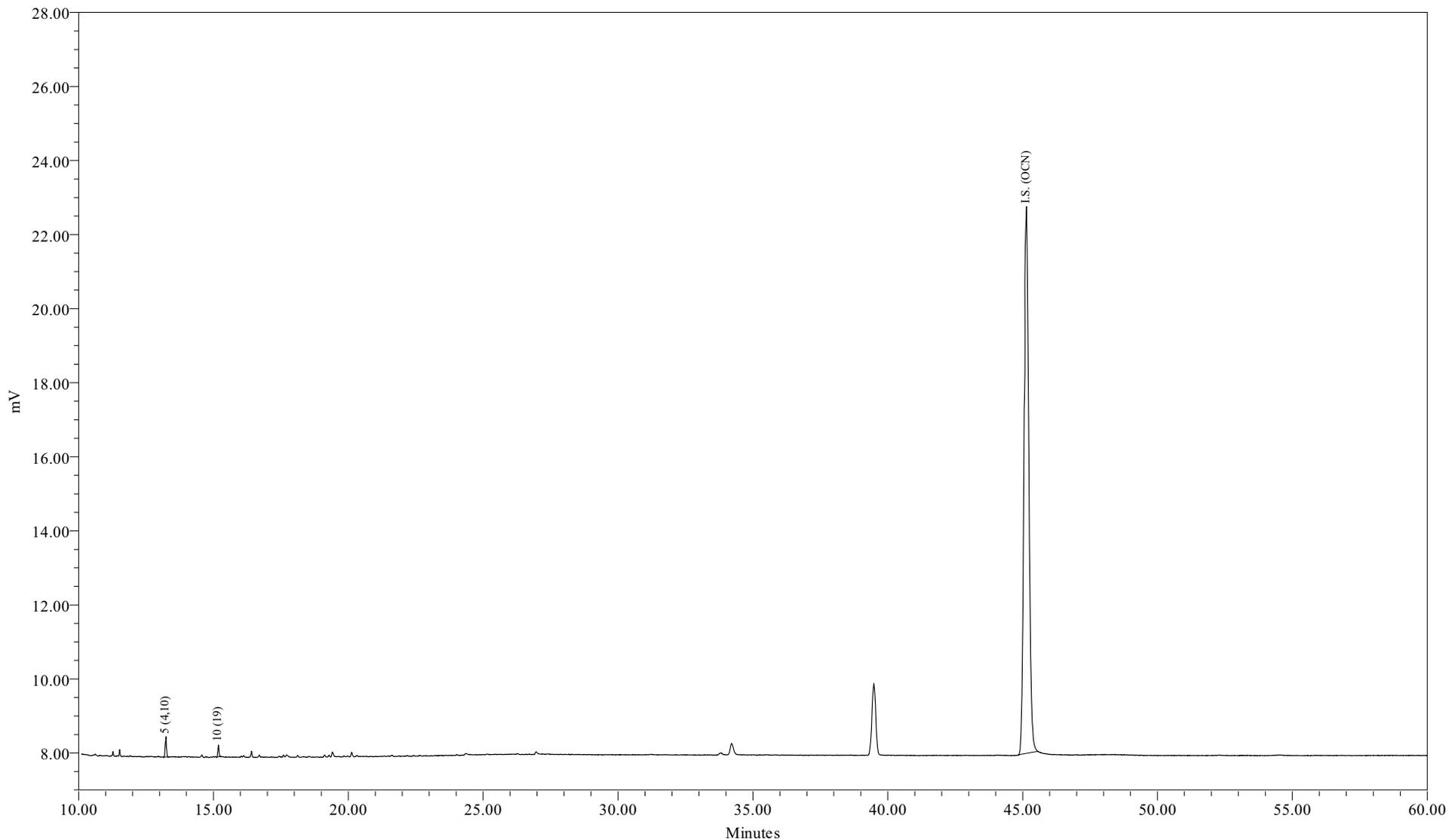
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM19662DL1  
Sample ID: WFF-WAFA-091021-BT001  
Date Acquired: 10/23/2009 10:53:20 EDT

Sample Amount (L) : 1.0800  
Dilution: 50  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-22

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 10:53:20  
 Lab Sample ID: AM19662DL1  
 LRF ID: 09100263-05DL1  
 Lab File ID: GC24-204-22

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 109 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	86.76	88.33
Tri	13.24	11.67
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.12

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.12

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 10:53:20  
 Lab Sample ID: AM19662DL1  
 LRF ID: 09100263-05DL1  
 Lab File ID: GC24-204-22

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				5.29	21.9	U
3	12.52	188.7				66.3	10000	U
4	12.63	188.7				3.55	12.8	U
5	13.24	223.1	1781	94.8	425	1.34	6.21	U
6	14.06	223.1				0.721	2.19	U
7	14.37	223.1				1.58	3.47	U
8	14.55	223.1				5.42	25.6	U
9	15.11	223.1				2.94	250	U
10	15.18	257.5	885	14.5	56.2	0.604	1.02	U
11	15.64	257.5				1.98	250	U
12	15.72	223.1				3.06	250	U
13	15.92	223.1				0.559	0.975	U
14	16.02	249.0				1.28	6.76	U
15	16.11	257.5				1.43	6.76	U
16	16.41	257.5				0.374	0.475	U
17	16.66	257.5				1.66	7.13	U
19	17.11	267.9				1.28	250	U
20	17.29	257.5				0.108	0.194	U
21	17.42	257.5				0.606	1.32	U
22	17.50	257.5				0.426	0.585	U
23	17.70	257.5				4.87	7.53	U
24	17.75	257.5				2.11	9.64	U
25	18.09	259.5				1.05	7.26	U
26	18.32	258.7				1.20	5.30	U
27	18.54	292.0				0.367	1.63	U
28	18.69	257.5				3.75	250	U
29	18.81	292.0				1.27	1.27	U
30	18.96	257.5				1.20	250	U
31	19.11	292.0				2.04	8.72	U
32	19.28	292.0				0.978	4.20	U
33	19.39	292.0				0.656	1.83	U
34	19.46	292.0				0.579	1.83	U
35	19.59	292.0				2.05	250	U
36	19.69	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				1.60	7.86	U
38	19.97	272.4				1.15	4.75	U
39	20.32	292.0				1.21	7.49	U
41	20.47	326.4				1.15	250	U
42	20.58	292.0				0.968	1.72	U
43	20.83	298.9				1.52	250	U
44	21.01	298.9				0.225	0.402	U
45	21.16	292.0				0.299	0.384	U
46	21.33	292.0				0.821	3.47	U
47	21.46	292.0				1.64	6.21	U
48	21.57	293.5				2.43	13.2	U
49	21.86	324.7				0.376	0.932	U
50	22.17	292.0				3.59	6.40	U
51	22.40	326.4				0.888	3.29	U
52	22.51	326.4				0.384	0.384	U
53	22.66	326.4				0.691	3.29	U
54	22.86	326.4				1.01	1.35	U
55	23.13	326.4				0.0644	0.102	U
56	23.23	326.4				0.647	0.647	U
57	23.44	326.4				0.435	1.02	U
58	23.61	326.4				0.841	2.12	U
59	23.77	326.4				0.484	1.28	U
60	23.88	360.9				0.772	1.37	U
61	24.02	326.4				0.668	3.89	U
62	24.29	360.9				1.13	250	U
63	24.38	326.4				0.201	0.804	U
64	24.68	360.9				0.518	3.11	U
65	24.81	350.5				0.149	0.530	U
66	24.88	360.9				0.541	1.10	U
67	24.95	336.8				0.348	0.475	U
68	25.04	326.4				1.25	250	U
69	25.12	337.5				0.938	7.31	U
70	25.24	360.9				0.829	250	U
71	25.51	347.8				0.348	0.369	U
72	25.71	336.8				0.0638	0.106	U
73	25.98	360.9				0.320	0.713	U
74	26.10	347.8				0.721	2.48	U
75	26.25	360.9				1.09	5.38	U
76	26.37	360.9				1.07	250	U
77	26.76	360.9				0.637	3.11	U
78	26.81	395.3				0.470	2.67	U
79	27.02	360.9				0.501	0.501	U
80	27.16	360.9				0.151	0.475	U
82	27.38	360.9				1.08	4.93	U
83	27.55	360.9				0.450	0.457	U
84	27.74	360.9				0.0310	0.0473	U
85	28.07	395.3				0.677	2.01	U
87	28.36	395.3				0.156	0.731	U
88	28.50	395.3				1.02	6.58	U
89	28.62	360.9				0.199	0.366	U
90	28.79	395.3				0.679	3.11	U
91	29.05	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.225	0.859	U
93	29.72	394.3				1.02	5.85	U
94	29.98	394.3				0.936	3.11	U
95	30.26	382.2				0.871	1.44	U
96	30.51	429.8				0.0942	0.121	U
98	30.68	395.3				0.133	0.139	U
99	31.04	429.8				0.863	0.863	U
100	31.27	395.3				1.27	1.27	U
101	31.54	429.8				2.17	2.17	U
102	31.72	395.3				1.50	11.1	U
103	31.96	395.3				0.640	0.768	U
104	32.25	395.3				0.374	0.438	U
105	32.58	429.8				0.460	0.786	U
106	33.68	395.3				0.538	2.34	U
107	33.95	395.3				0.213	0.768	U
108	34.76	429.8				0.324	0.438	U
109	34.98	429.8				1.16	7.68	U
110	35.50	429.8				1.84	7.86	U
111	36.64	395.3				0.231	0.231	U
112	38.10	429.8				0.368	1.01	U
113	38.59	464.2				0.438	0.903	U
114	39.49	464.2				0.154	0.340	U
115	40.84	429.8				0.969	3.29	U
116	41.67	429.8				0.838	0.838	U
117	46.57	464.2				0.384	1.24	U
118	52.30	498.6				0.126	0.126	U

Total Concentration = 109 ng/L 91.0 322 J

Total Nanomoles = 0.481

Average Molecular Weight = 227.1

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 45.14 minutes

Internal Standard Peak Area = 185207.3

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFA-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 10:53:20  
 Lab Sample ID: AM19662DL1  
 LRF ID: 09100263-05DL1  
 Lab File ID: GC24-204-22

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	2		-	-
3	12.52	1:0	002	3		-	-
4	12.63	1:0	003	4		-	-
5	13.24	2:2	004 010	0.2933	2-2; 26	86.763	88.325
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3363	26-2	13.237	11.675
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.41	3:2	024 027		236; 26-3	-	-
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.70	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.54	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046		23-26	-	-
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.86	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.40	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.51	5:3	089		234-26	-	-
53	22.66	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.13	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.23	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.44	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.61	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.29	6:3	154		245-246	-	-
63	24.38	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.81	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.88	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.12	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.25	6:2	153		245-245	-	-
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.02	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162		234-234; 235-345	-	-
90	28.79	7:3	183		2346-245	-	-
91	29.05	6:1	167		245-345	-	-
92	29.37	7:3	185		23456-25	-	-
93	29.72	7:3	174 181		2345-236; 23456-24	-	-
94	29.98	7:3	177		2356-234	-	-
95	30.26	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.51	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.72	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 109 ng/L

Total Nanomoles = 0.481

Average Molecular Weight = 227.1

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09100263
ELAP ID No:	11078	LRF ID:	09100263-06
Matrix:	Water	Client ID:	WFF-WAFO-091021-BT001
Sample Wt(Dry)/Vol:	1040 mL	Lab Sample ID:	AM19663
% Moisture:	100	Lab File ID:	GC24-204-23
Extraction:	Solid Phase Extraction - 1L	Date Received:	10/22/2009
Conc. Extract Volume:	5000 uL	Date Extracted:	10/22/2009
Injection Volume:	1.0 uL	Date/Time Analyzed:	10/23/2009 11:58
Analytical SOP Reference:	SOP NE207_03	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm		

OCN (I.S.) Peak Area: 178219

Percent Recovery (50 - 150 %): 104

SAMPLE TOTAL PCB CONCENTRATION: 188 ng/L

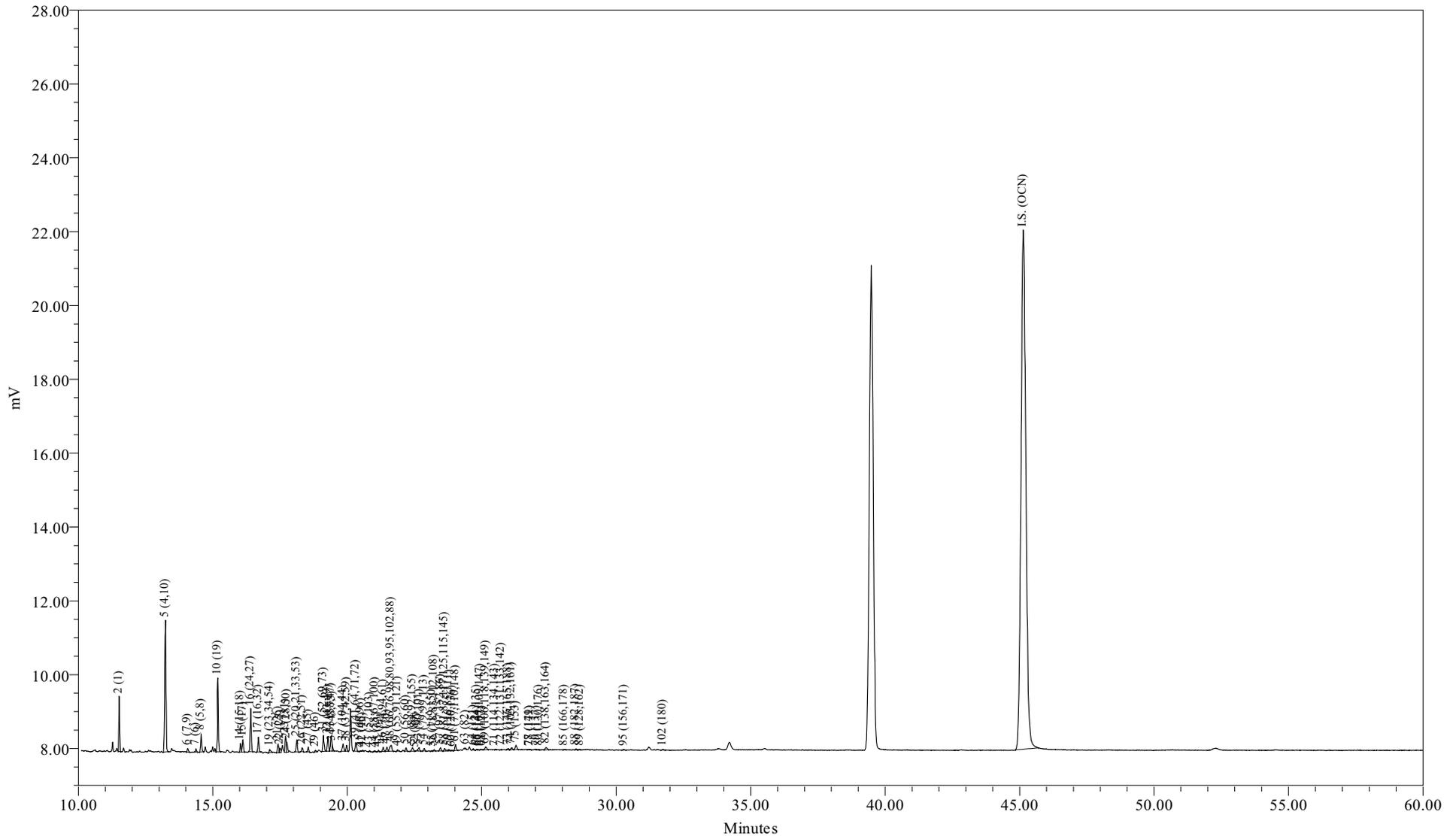
Visual Aroclor ID: Altered Aroclor 1242



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM19663  
Sample ID: WFF-WAFO-091021-BT001  
Date Acquired: 10/23/2009 11:58:54 EDT

Sample Amount (L) : 1.0400  
Dilution: 5  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-23

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 11:58:54  
 Lab Sample ID: AM19663  
 LRF ID: 09100263-06  
 Lab File ID: GC24-204-23

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 188 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	33.94	38.99
Di	46.57	45.23
Tri	14.16	11.92
Tetra	3.96	2.96
Penta	1.26	0.84
Hexa	0.10	0.06
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	63.7820	96.4	96.7
A1242	23+24/31+28	1.9756	2.99	3.00
A1254SED	61/100	0.3842	0.581	
A1254BIO	69+75+82/149+153+138	0.1769		0.268
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.62

Meta + Para Cl / biphenyl Residue = 0.20

Total Cl / biphenyl Residue = 1.82

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 11:58:54  
 Lab Sample ID: AM19663  
 LRF ID: 09100263-06  
 Lab File ID: GC24-204-23

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.52	188.7	2859	63.8	338	0.529	2.19	
3	12.52	188.7				6.63	1000	U
4	12.63	188.7				0.355	1.28	U
5	13.24	223.1	1564	84.1	377	1.34	6.21	
6	14.06	223.1	310	0.356	1.60	0.0721	0.219	
7	14.37	223.1	198	0.557	2.50	0.158	0.347	
8	14.56	223.1	1313	2.19	9.81	0.542	2.56	J
9	15.11	223.1				0.294	25.0	U
10	15.18	257.5	713	11.8	45.8	0.604	1.02	
11	15.64	257.5				0.198	25.0	U
12	15.72	223.1				0.306	25.0	U
13	15.92	223.1				0.0559	0.0975	U
14	16.03	249.0	593	1.18	4.73	0.128	0.676	
15	16.12	257.5	936	2.54	9.84	0.143	0.676	B
16	16.41	257.5	3272	3.48	13.5	0.0374	0.0475	
17	16.70	257.5	1123	2.09	8.11	0.166	0.713	
19	17.12	267.9	300	0.483	1.80	0.128	25.0	J
20	17.29	257.5				0.0108	0.0194	U
21	17.43	257.5	729	1.12	4.33	0.0606	0.132	B
22	17.50	257.5	395	0.430	1.67	0.0426	0.0585	B
23	17.71	257.5	1312	1.49	5.80	0.487	0.753	
24	17.75	257.5	761	0.481	1.87	0.211	0.964	J
25	18.12	259.5	975	1.28	4.95	0.105	0.726	
26	18.32	258.7	326	0.397	1.54	0.120	0.530	J
27	18.55	292.0	351	0.400	1.37	0.0367	0.163	B
28	18.69	257.5				0.375	25.0	U
29	18.82	292.0	151	0.228	0.779	0.127	0.127	
30	18.96	257.5				0.120	25.0	U
31	19.12	292.0	1382	2.28	7.81	0.204	0.872	
32	19.28	292.0	1224	1.08	3.68	0.0978	0.420	
33	19.40	292.0	1324	0.778	2.66	0.0656	0.183	
34	19.44	292.0	303	0.245	0.839	0.0579	0.183	B
35	19.59	292.0				0.205	25.0	U
36	19.69	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.85	292.0	766	0.459	1.57	0.160	0.786	J
38	19.98	272.4	499	0.645	2.37	0.115	0.475	
39	20.32	292.0	880	0.610	2.09	0.121	0.749	J
41	20.50	326.4	57			0.115	25.0	U
42	20.57	292.0	59			0.0968	0.172	U
43	20.82	298.9	61			0.152	25.0	U
44	21.03	298.9	94	0.0730	0.244	0.0225	0.0402	
45	21.16	292.0	100	0.0816	0.280	0.0299	0.0384	
46	21.34	292.0	361	0.152	0.521	0.0821	0.347	J
47	21.47	292.0	360			0.164	0.621	U
48	21.63	293.5	883	0.592	2.02	0.243	1.32	J
49	21.87	324.7	115	0.131	0.402	0.0376	0.0932	
50	22.18	292.0	288			0.359	0.640	U
51	22.43	326.4	426	0.728	2.23	0.0888	0.329	
52	22.54	326.4	27			0.0384	0.0384	U
53	22.67	326.4	347	0.194	0.595	0.0691	0.329	J
54	22.86	326.4	229	0.118	0.362	0.101	0.135	J
55	23.16	326.4	51	0.0225	0.0690	0.00644	0.0102	
56	23.23	326.4	110	0.115	0.352	0.0647	0.0647	
57	23.46	326.4	322	0.217	0.666	0.0435	0.102	B
58	23.62	326.4	345	0.251	0.768	0.0841	0.212	
59	23.78	326.4	133	0.0891	0.273	0.0484	0.128	JB
60	23.90	360.9	64			0.0772	0.137	U
61	24.03	326.4	531	0.384	1.18	0.0668	0.389	JB
62	24.29	360.9				0.113	25.0	U
63	24.40	326.4	31			0.0201	0.0804	U
64	24.68	360.9	91			0.0518	0.311	U
65	24.81	350.5	78	0.0414	0.118	0.0149	0.0530	J
66	24.86	360.9	27			0.0541	0.110	U
67	24.95	336.8	65	0.0553	0.164	0.0348	0.0475	
68	25.02	326.4	21			0.125	25.0	U
69	25.15	337.5	378			0.0938	0.731	U
70	25.24	360.9				0.0829	25.0	U
71	25.50	347.8	18			0.0348	0.0369	U
72	25.72	336.8	17			0.00638	0.0106	U
73	25.98	360.9	120	0.0716	0.198	0.0320	0.0713	
74	26.11	347.8	225	0.0992	0.285	0.0721	0.248	J
75	26.27	360.9	482			0.109	0.538	U
76	26.37	360.9				0.107	25.0	U
77	26.78	360.9	37			0.0637	0.311	U
78	26.79	395.3	41			0.0470	0.267	U
79	27.04	360.9	15			0.0501	0.0501	U
80	27.13	360.9	14			0.0151	0.0475	U
82	27.39	360.9	315			0.108	0.493	U
83	27.55	360.9				0.0450	0.0457	U
84	27.74	360.9				0.00310	0.00473	U
85	28.07	395.3	66			0.0677	0.201	U
87	28.36	395.3				0.0156	0.0731	U
88	28.50	395.3	58			0.102	0.658	U
89	28.66	360.9	44			0.0199	0.0366	U
90	28.79	395.3				0.0679	0.311	U
91	29.05	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.0225	0.0859	U
93	29.72	394.3				0.102	0.585	U
94	29.98	394.3				0.0936	0.311	U
95	30.29	382.2	71			0.0871	0.144	U
96	30.51	429.8				0.00942	0.0121	U
98	30.68	395.3				0.0133	0.0139	U
99	31.04	429.8				0.0863	0.0863	U
100	31.27	395.3				0.127	0.127	U
101	31.54	429.8				0.217	0.217	U
102	31.74	395.3	61			0.150	1.11	U
103	31.96	395.3				0.0640	0.0768	U
104	32.25	395.3				0.0374	0.0438	U
105	32.58	429.8				0.0460	0.0786	U
106	33.68	395.3				0.0538	0.234	U
107	33.95	395.3				0.0213	0.0768	U
108	34.76	429.8				0.0324	0.0438	U
109	34.98	429.8				0.116	0.768	U
110	35.50	429.8				0.184	0.786	U
111	36.64	395.3				0.0231	0.0231	U
112	38.10	429.8				0.0368	0.101	U
113	38.59	464.2				0.0438	0.0903	U
114	39.49	464.2				0.0154	0.0340	U
115	40.84	429.8				0.0969	0.329	U
116	41.67	429.8				0.0838	0.0838	U
117	46.57	464.2				0.0384	0.124	U
118	52.30	498.6				0.0126	0.0126	U

Total Concentration = 188 ng/L

10.8

38.7

Total Nanomoles = 0.867

Average Molecular Weight = 216.8

Number of Calibrated Peaks Found = 69

Internal Standard Retention Time = 45.14 minutes

Internal Standard Peak Area = 178218.5

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

Northeast Analytical, Inc.  
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### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 11:58:54  
 Lab Sample ID: AM19663  
 LRF ID: 09100263-06  
 Lab File ID: GC24-204-23

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.52	1:1	001	0.2552	2	33.943	38.993
3	12.52	1:0	002		3	-	-
4	12.63	1:0	003		4	-	-
5	13.24	2:2	004 010	0.2933	2-2; 26	44.765	43.496
6	14.06	2:1	007 009	0.3115	24; 25	0.189	0.184
7	14.37	2:1	006	0.3183	2-3	0.297	0.288
8	14.56	2:1	005 008	0.3226	23; 2-4	1.165	1.132
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3363	26-2	6.282	5.288
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.03	2:0 3:2	015 018	0.3551	4-4; 25-2	0.626	0.545
15	16.12	3:2	017	0.3571	24-2	1.349	1.136
16	16.41	3:2	024 027	0.3635	236; 26-3	1.852	1.559
17	16.70	3:2	016 032	0.3700	23-2; 26-4	1.112	0.936
19	17.12	3:1 4:4	023 034 054	0.3793	235; 35-2; 26-26	0.257	0.208
20	17.29	3:1	029		245	-	-
21	17.43	3:1	026	0.3861	25-3	0.593	0.500
22	17.50	3:1	025	0.3877	24-3	0.229	0.193
23	17.71	3:1	031	0.3923	25-4	0.795	0.670
24	17.75	3:1 4:3	028 050	0.3932	24-4; 246-2	0.256	0.215
25	18.12	3:1 4:3	020 021 033 053	0.4014	23-3; 234; 34-2; 25-26	0.683	0.571
26	18.32	3:1 4:3	022 051	0.4058	23-4; 24-26	0.211	0.177
27	18.55	4:3	045	0.4109	236-2	0.213	0.158
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046	0.4169	23-26	0.121	0.090
30	18.96	3:0	039		35-4	-	-
31	19.12	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	1.214	0.901
32	19.28	4:2	043 049	0.4271	235-2; 24-25	0.572	0.425
33	19.40	4:2	038 047	0.4298	345; 24-24	0.414	0.307
34	19.44	4:2	048 075	0.4307	245-2; 246-4	0.130	0.097
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.85	5:4 4:2	104 044	0.4397	246-26; 23-25	0.244	0.181
38	19.98	3:0 4:2	037 042 059	0.4426	34-4; 23-24; 236-3	0.343	0.273
39	20.32	4:2	041 064 071 072	0.4502	234-2; 236-4; 26-34; 25-35	0.324	0.241

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.50	5:4	068 096		24-35; 236-26	-	-
42	20.57	4:2	040		23-23	-	-
43	20.82	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.03	4:1 5:3	058 067 100	0.4659	23-35; 245-3; 246-24	0.039	0.028
45	21.16	4:1	063	0.4688	235-4	0.043	0.032
46	21.34	4:1 5:3	074 094 061	0.4728	245-4; 235-26; 2345	0.081	0.060
47	21.47	4:1	070		25-34	-	-
48	21.63	4:1 5:3	066 076 098 080 093 095 102 088	0.4792	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	0.315	0.233
49	21.87	4:1 5:3	055 091 121	0.4845	234-3; 236-24; 246-35	0.069	0.046
50	22.18	4:1	056 060		23-34; 234-4	-	-
51	22.43	5:3 6:4	084 092 155	0.4969	236-23; 235-25; 246-246	0.387	0.257
52	22.54	5:3	089		234-26	-	-
53	22.67	5:2	090 101	0.5022	235-24; 245-25	0.103	0.069
54	22.86	5:2	079 099 113	0.5064	34-35; 245-24; 236-35	0.063	0.042
55	23.16	5:2 6:4	119 150	0.5131	246-34; 236-246	0.012	0.008
56	23.23	5:2	078 083 112 108	0.5146	345-3; 235-23; 2356-3; 2346-3	0.061	0.041
57	23.46	5:2 6:4	097 152 086	0.5197	245-23; 2356-26; 2345-2	0.116	0.077
58	23.62	5:2	081 087 117 125 115 145	0.5233	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.133	0.089
59	23.78	5:2	116 085 111	0.5268	23456; 234-24; 235-35	0.047	0.031
60	23.90	6:4	120 136		245-35; 236-236	-	-
61	24.03	5:2	077 110 148	0.5323	34-34; 236-34; 235-246	0.204	0.136
62	24.29	6:3	154		245-246	-	-
63	24.40	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.81	5:1 6:3	124 135	0.5496	345-25; 235-236	0.022	0.014
66	24.86	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147	0.5527	234-35; 235-34; 2356-24	0.029	0.019
68	25.02	5:1	123		345-24	-	-
69	25.15	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.50	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.72	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	146 165 188	0.5755	235-245; 2356-35; 2356-246	0.038	0.023
74	26.11	5:1 6:3	105 132 161	0.5784	234-34; 234-236; 2346-35	0.053	0.033
75	26.27	6:2	153		245-245	-	-
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.78	6:2	141		2345-25	-	-
78	26.79	7:4	179		2356-236	-	-
79	27.04	6:2	137		2345-24	-	-
80	27.13	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.39	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.66	6:2	128 162		234-234; 235-345	-	-
90	28.79	7:3	183		2346-245	-	-
91	29.05	6:1	167		245-345	-	-
92	29.37	7:3	185		23456-25	-	-
93	29.72	7:3	174 181		2345-236; 23456-24	-	-
94	29.98	7:3	177		2356-234	-	-
95	30.29	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.51	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.74	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 188 ng/L

Total Nanomoles = 0.867

Average Molecular Weight = 216.8

Number of Calibrated Peaks Found = 69

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

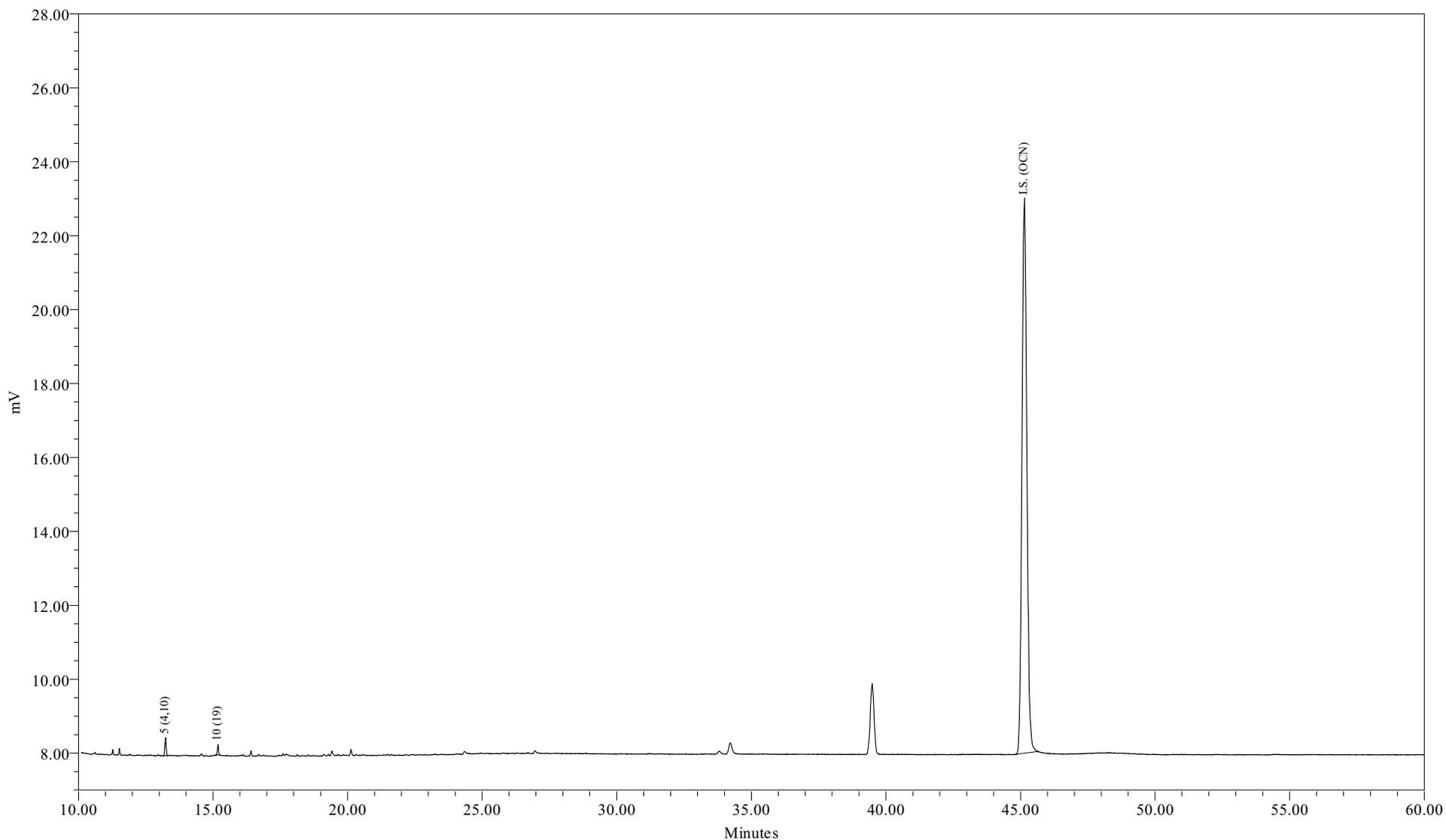
Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);



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Sample Name: AM19663DL1  
Sample ID: WFF-WAFO-091021-BT001  
Date Acquired: 10/23/2009 13:06:59 EDT

Sample Amount (L) : 1.0400  
Dilution: 50  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-24

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 13:06:59  
 Lab Sample ID: AM19663DL1  
 LRF ID: 09100263-06DL1  
 Lab File ID: GC24-204-24

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 95.9 ng/L J

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	87.69	89.16
Tri	12.31	10.84
Tetra	0.00	0.00
Penta	0.00	0.00
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Biota
A1221	2/001			
A1242	23+24/31+28			
A1254SED	61/100			
A1254BIO	69+75+82/149+153+138			
A1260	102/180			
A1268	115/194			

Ortho Cl / biphenyl Residue = 2.11

Meta + Para Cl / biphenyl Residue = 0.00

Total Cl / biphenyl Residue = 2.11

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 13:06:59  
 Lab Sample ID: AM19663DL1  
 LRF ID: 09100263-06DL1  
 Lab File ID: GC24-204-24

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.51	188.7				5.29	21.9	U
3	12.52	188.7				66.3	10000	U
4	12.63	188.7				3.55	12.8	U
5	13.24	223.1	1564	84.1	377	1.34	6.21	U
6	14.06	223.1				0.721	2.19	U
7	14.37	223.1				1.58	3.47	U
8	14.55	223.1				5.42	25.6	U
9	15.11	223.1				2.94	250	U
10	15.18	257.5	713	11.8	45.8	0.604	1.02	U
11	15.64	257.5				1.98	250	U
12	15.72	223.1				3.06	250	U
13	15.92	223.1				0.559	0.975	U
14	16.02	249.0				1.28	6.76	U
15	16.11	257.5				1.43	6.76	U
16	16.41	257.5				0.374	0.475	U
17	16.66	257.5				1.66	7.13	U
19	17.11	267.9				1.28	250	U
20	17.29	257.5				0.108	0.194	U
21	17.42	257.5				0.606	1.32	U
22	17.50	257.5				0.426	0.585	U
23	17.70	257.5				4.87	7.53	U
24	17.75	257.5				2.11	9.64	U
25	18.09	259.5				1.05	7.26	U
26	18.32	258.7				1.20	5.30	U
27	18.54	292.0				0.367	1.63	U
28	18.69	257.5				3.75	250	U
29	18.81	292.0				1.27	1.27	U
30	18.96	257.5				1.20	250	U
31	19.11	292.0				2.04	8.72	U
32	19.28	292.0				0.978	4.20	U
33	19.39	292.0				0.656	1.83	U
34	19.46	292.0				0.579	1.83	U
35	19.59	292.0				2.05	250	U
36	19.69	257.5				1.44	250	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	19.84	292.0				1.60	7.86	U
38	19.97	272.4				1.15	4.75	U
39	20.32	292.0				1.21	7.49	U
41	20.47	326.4				1.15	250	U
42	20.58	292.0				0.968	1.72	U
43	20.83	298.9				1.52	250	U
44	21.01	298.9				0.225	0.402	U
45	21.16	292.0				0.299	0.384	U
46	21.33	292.0				0.821	3.47	U
47	21.46	292.0				1.64	6.21	U
48	21.57	293.5				2.43	13.2	U
49	21.86	324.7				0.376	0.932	U
50	22.17	292.0				3.59	6.40	U
51	22.40	326.4				0.888	3.29	U
52	22.51	326.4				0.384	0.384	U
53	22.66	326.4				0.691	3.29	U
54	22.86	326.4				1.01	1.35	U
55	23.13	326.4				0.0644	0.102	U
56	23.23	326.4				0.647	0.647	U
57	23.44	326.4				0.435	1.02	U
58	23.61	326.4				0.841	2.12	U
59	23.77	326.4				0.484	1.28	U
60	23.88	360.9				0.772	1.37	U
61	24.02	326.4				0.668	3.89	U
62	24.29	360.9				1.13	250	U
63	24.38	326.4				0.201	0.804	U
64	24.68	360.9				0.518	3.11	U
65	24.81	350.5				0.149	0.530	U
66	24.88	360.9				0.541	1.10	U
67	24.95	336.8				0.348	0.475	U
68	25.04	326.4				1.25	250	U
69	25.12	337.5				0.938	7.31	U
70	25.24	360.9				0.829	250	U
71	25.51	347.8				0.348	0.369	U
72	25.71	336.8				0.0638	0.106	U
73	25.98	360.9				0.320	0.713	U
74	26.10	347.8				0.721	2.48	U
75	26.25	360.9				1.09	5.38	U
76	26.37	360.9				1.07	250	U
77	26.76	360.9				0.637	3.11	U
78	26.81	395.3				0.470	2.67	U
79	27.02	360.9				0.501	0.501	U
80	27.16	360.9				0.151	0.475	U
82	27.38	360.9				1.08	4.93	U
83	27.55	360.9				0.450	0.457	U
84	27.74	360.9				0.0310	0.0473	U
85	28.07	395.3				0.677	2.01	U
87	28.36	395.3				0.156	0.731	U
88	28.50	395.3				1.02	6.58	U
89	28.62	360.9				0.199	0.366	U
90	28.79	395.3				0.679	3.11	U
91	29.05	360.9				0.348	0.348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	29.37	394.3				0.225	0.859	U
93	29.72	394.3				1.02	5.85	U
94	29.98	394.3				0.936	3.11	U
95	30.26	382.2				0.871	1.44	U
96	30.51	429.8				0.0942	0.121	U
98	30.68	395.3				0.133	0.139	U
99	31.04	429.8				0.863	0.863	U
100	31.27	395.3				1.27	1.27	U
101	31.54	429.8				2.17	2.17	U
102	31.72	395.3				1.50	11.1	U
103	31.96	395.3				0.640	0.768	U
104	32.25	395.3				0.374	0.438	U
105	32.58	429.8				0.460	0.786	U
106	33.68	395.3				0.538	2.34	U
107	33.95	395.3				0.213	0.768	U
108	34.76	429.8				0.324	0.438	U
109	34.98	429.8				1.16	7.68	U
110	35.50	429.8				1.84	7.86	U
111	36.64	395.3				0.231	0.231	U
112	38.10	429.8				0.368	1.01	U
113	38.59	464.2				0.438	0.903	U
114	39.49	464.2				0.154	0.340	U
115	40.84	429.8				0.969	3.29	U
116	41.67	429.8				0.838	0.838	U
117	46.57	464.2				0.384	1.24	U
118	52.30	498.6				0.126	0.126	U

Total Concentration = 95.9 ng/L

91.0

322

J

Total Nanomoles = 0.423

Average Molecular Weight = 226.8

Number of Calibrated Peaks Found = 2

Internal Standard Retention Time = 45.15 minutes

Internal Standard Peak Area = 190450.5

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: WFF-WAFO-091021-BT001  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 13:06:59  
 Lab Sample ID: AM19663DL1  
 LRF ID: 09100263-06DL1  
 Lab File ID: GC24-204-24

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.51	1:1	001	2		-	-
3	12.52	1:0	002	3		-	-
4	12.63	1:0	003	4		-	-
5	13.24	2:2	004 010	0.2932	2-2; 26	87.694	89.159
6	14.06	2:1	007 009		24; 25	-	-
7	14.37	2:1	006		2-3	-	-
8	14.55	2:1	005 008		23; 2-4	-	-
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3362	26-2	12.306	10.841
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.92	2:0	012 013		34; 3-4	-	-
14	16.02	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.11	3:2	017		24-2	-	-
16	16.41	3:2	024 027		236; 26-3	-	-
17	16.66	3:2	016 032		23-2; 26-4	-	-
19	17.11	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.29	3:1	029		245	-	-
21	17.42	3:1	026		25-3	-	-
22	17.50	3:1	025		24-3	-	-
23	17.70	3:1	031		25-4	-	-
24	17.75	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.09	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.32	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.54	4:3	045		236-2	-	-
28	18.69	3:0	036		35-3	-	-
29	18.81	4:3	046		23-26	-	-
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.28	4:2	043 049		235-2; 24-25	-	-
33	19.39	4:2	038 047		345; 24-24	-	-
34	19.46	4:2	048 075		245-2; 246-4	-	-
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.69	3:0	035		34-3	-	-
37	19.84	5:4 4:2	104 044		246-26; 23-25	-	-
38	19.97	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.32	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096		24-35; 236-26	-	-
42	20.58	4:2	040		23-23	-	-
43	20.83	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.01	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.16	4:1	063		235-4	-	-
46	21.33	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.46	4:1	070		25-34	-	-
48	21.57	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	21.86	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.17	4:1	056 060		23-34; 234-4	-	-
51	22.40	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.51	5:3	089		234-26	-	-
53	22.66	5:2	090 101		235-24; 245-25	-	-
54	22.86	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.13	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.23	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.44	5:2 6:4	097 152 086		245-23; 2356-26; 2345-2	-	-
58	23.61	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	23.77	5:2	116 085 111		23456; 234-24; 235-35	-	-
60	23.88	6:4	120 136		245-35; 236-236	-	-
61	24.02	5:2	077 110 148		34-34; 236-34; 235-246	-	-
62	24.29	6:3	154		245-246	-	-
63	24.38	5:2	082		234-23	-	-
64	24.68	6:3	151		2356-25	-	-
65	24.81	5:1 6:3	124 135		345-25; 235-236	-	-
66	24.88	6:3	144		2346-25	-	-
67	24.95	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.04	5:1	123		345-24	-	-
69	25.12	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	25.71	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	25.98	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.10	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.25	6:2	153		245-245	-	-
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141		2345-25	-	-
78	26.81	7:4	179		2356-236	-	-
79	27.02	6:2	137		2345-24	-	-
80	27.16	6:2 7:4	130 176		234-235; 2346-236	-	-
82	27.38	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	27.55	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	27.74	6:2	126 129		345-34; 2345-23	-	-
85	28.07	7:3	166 178		23456-4; 2356-235	-	-
87	28.36	7:3	175 159		2346-235; 2345-35	-	-
88	28.50	7:3	182 187		2345-246; 2356-245	-	-
89	28.62	6:2	128 162		234-234; 235-345	-	-
90	28.79	7:3	183		2346-245	-	-
91	29.05	6:1	167		245-345	-	-
92	29.37	7:3	185		23456-25	-	-
93	29.72	7:3	174 181		2345-236; 23456-24	-	-
94	29.98	7:3	177		2356-234	-	-
95	30.26	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	30.51	8:4	157 202		234-345; 2356-2356	-	-
98	30.68	7:3	173		23456-23	-	-
99	31.04	8:4	201		2346-2356	-	-
100	31.27	7:2	172 204		2345-235; 23456-246	-	-
101	31.54	8:4	192 197		23456-35; 2346-2346	-	-
102	31.72	7:2	180		2345-245	-	-
103	31.96	7:2	193		2356-345	-	-
104	32.25	7:2	191		2346-345	-	-
105	32.58	8:4	200 169		23456-236; 345-345	-	-
106	33.68	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>		23456-34	-	-
108	34.76	8:3	<b>198</b>		23456-235	-	-
109	34.98	8:3	<b>199</b>		2345-2356	-	-
110	35.50	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	36.64	7:1	<b>189</b>		2345-345	-	-
112	38.10	8:3	<b>195</b>		23456-234	-	-
113	38.59	9:4	<b>208</b>		23456-2356	-	-
114	39.49	9:4	<b>207</b>		23456-2346	-	-
115	40.84	8:2	<b>194</b>		2345-2345	-	-
116	41.67	8:2	<b>205</b>		23456-345	-	-
117	46.57	9:3	<b>206</b>		23456-2345	-	-
118	52.30	10:4	<b>209</b>		23456-23456	-	-

Concentration = 95.9 ng/L

Total Nanomoles = 0.423

Average Molecular Weight = 226.8

Number of Calibrated Peaks Found = 2

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).  
 Bias Factors: Peak 5 (0.610);

# Sample GC Injection Log (GC-16)



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
Phone: (518) 346-4592 Fax: (518) 381-6055  
www.nealab.com

Sample Set Name: GC16\_CC\_082309  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 08/23/2009 02:05:02 EDT  
Current Date: 09/02/2009  
Report Name: CSGB\_SSReport

### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090823B01	1.000	1.00	1	08/23/2009 02:12:16 EDT
2	HEXANE BLANK	Unknown	090823B02	1.000	1.00	1	08/23/2009 03:19:41 EDT
3	ICAL 6.25 ng/mL	Standard	ICAL0823A	1.000	1.00	1	08/23/2009 04:27:16 EDT
4	ICAL 12.5 ng/mL	Standard	ICAL0823B	1.000	1.00	1	08/23/2009 05:34:46 EDT
5	ICAL 125 ng/mL	Standard	ICAL0823C	1.000	1.00	1	08/23/2009 06:42:13 EDT
6	ICAL 314 ng/mL	Standard	ICAL0823D	1.000	1.00	1	08/23/2009 07:49:33 EDT
7	ICAL 627 ng/mL	Standard	ICAL0823E	1.000	1.00	1	08/23/2009 08:56:52 EDT
8	HEXANE BLANK	Unknown	090823B03	1.000	1.00	1	08/23/2009 10:04:12 EDT
9	SUP CONG STD 200/5 ng/mL	Standard	SC0823A	1.000	1.00	1	08/23/2009 11:11:32 EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0823A	1.000	1.00	1	08/23/2009 12:18:49 EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0823B	1.000	1.00	1	08/23/2009 13:26:05 EDT
12	Surr TCMX/DCBP 5/50 ppb	Standard	TD0823A	1.000	1.00	1	08/23/2009 14:33:23 EDT
13	HEXANE BLANK	Unknown	090823B04	1.000	1.00	1	08/23/2009 15:40:42 EDT
14	CCC Std 122 ng/mL	Unknown	CCCS0823A	1.000	1.00	1	08/23/2009 16:48:04 EDT



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, New York 12308

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Sample Set Name: GC16\_102209c  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 10/22/2009 12:04:12  
Date Printed: 10/23/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	091022B01	1.000	1.00	1	10/22/2009 12:04:12
2	CCC Std 122 ng/mL	Unknown	CCCS1022A	1.000	1.00	1	10/22/2009 13:12:19
3	METHOD BLANK	Unknown	AM19657B	1.000	5.00	5	10/22/2009 14:20:40
4	LAB CONTROL SPIKE	Unknown	AM19657L	1.000	5.00	5	10/22/2009 15:28:47
5	ZZZZZ	Unknown	ZZZZZ	0.960	5.00	5	10/22/2009 16:36:10
6	ZZZZZ	Unknown	ZZZZZ	0.960	50.00	5	10/22/2009 17:43:53
7	ZZZZZ	Unknown	ZZZZZ	1.080	5.00	5	10/22/2009 18:51:21
8	ZZZZZ	Unknown	ZZZZZ	1.080	50.00	5	10/22/2009 21:06:19
9	CCC Std 122 ng/mL	Unknown	CCCS1022B	1.000	1.00	1	10/22/2009 22:13:38
10	ZZZZZ	Unknown	ZZZZZ	0.930	5.00	5	10/22/2009 23:20:51
11	ZZZZZ	Unknown	ZZZZZ	0.930	50.00	5	10/23/2009 00:27:56
12	ZZZZZ	Unknown	ZZZZZ	1.060	5.00	5	10/23/2009 01:34:54
13	ZZZZZ	Unknown	ZZZZZ	1.060	50.00	5	10/23/2009 02:41:49
14	CCC Std 122 ng/mL	Unknown	CCCS1022C	1.000	1.00	1	10/23/2009 03:48:40
15	ZZZZZ	Unknown	ZZZZZ	0.990	5.00	5	10/23/2009 04:55:28
16	ZZZZZ	Unknown	ZZZZZ	0.990	50.00	5	10/23/2009 06:02:11
17	METHOD BLANK	Unknown	AM19597B	1.000	5.00	5	10/23/2009 07:08:54
18	LAB CONTROL SPIKE	Unknown	AM19597L	1.000	5.00	5	10/23/2009 08:15:59
19	ZZZZZ	Unknown	ZZZZZ	1.080	5.00	5	10/23/2009 09:23:25
20	CCC Std 122 ng/mL	Unknown	CCCS1022D	1.000	1.00	1	10/23/2009 10:31:04
21	METHOD BLANK	Unknown	AM19724B	1.000	10.00	10	10/23/2009 11:38:49
22	LAB CONTROL SPIKE	Unknown	AM19724L	1.000	10.00	10	10/23/2009 12:46:34
23	ZZZZZ	Unknown	ZZZZZ	0.960	10.00	10	10/23/2009 13:54:21
24	ZZZZZ	Unknown	ZZZZZ	0.960	100.00	10	10/23/2009 15:02:10
25	ZZZZZ	Unknown	ZZZZZ	1.000	10.00	10	10/23/2009 16:10:07
26	CCC Std 122 ng/mL	Unknown	CCCS1022E	1.000	1.00	1	10/23/2009 17:18:01



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Project Name: GC16\_May\_2009

Sample Set Name: GC16\_102209c

Date Printed: 10/23/2009

**Operating Conditions Gas Chromatography**

User Name: Keith Friedman

Injection Method: Splitless

Sample Size: 0.5 uL

Column Type: Capillary

**Temperature Information**

Column Temperature: Program

Injector Temperature: 300 °C

Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min

Temperature Program: 15 °C/min

Intermediate Temperature: 150 °C

Temperature Program: 4.3 °C/min

Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: Agilent DB-1; 30 meter; 0.25 micron phase thickness

Material: Fused Silica

Length: 30 meter

Internal Diameter: 0.25 mm

Carrier Gas: Helium

Make-up Gas: Nitrogen

Flow Pressure: 28.8 psi

Make-up Flow: 65 mL/min

Split Ratio: None

**Detector Information**

Detector Name: Detector 1 GC16

Detector Type: ECD

Detector Range: 3

# Sample GC Injection Log (GC-24)



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Set Name: GC24\_CC\_090509  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 9/5/2009 2:45:04 AM EDT  
Current Date: 9/18/2009  
Report Name: CSGB\_SSReport

### Sample Set Report Summary

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	090905B01	1.000	1.00	1	9/5/2009 2:50:31 AM EDT
2	HEXANE BLANK	Unknown	090905B02	1.000	1.00	1	9/5/2009 3:56:00 AM EDT
3	ICAL 6.25 ng/mL	Standard	ICAL0905A	1.000	1.00	1	9/5/2009 5:01:29 AM EDT
4	ICAL 12.5 ng/mL	Standard	ICAL0905B	1.000	1.00	1	9/5/2009 6:06:56 AM EDT
5	ICAL 125 ng/mL	Standard	ICAL0905C	1.000	1.00	1	9/5/2009 7:12:23 AM EDT
6	ICAL 314 ng/mL	Standard	ICAL0905D	1.000	1.00	1	9/5/2009 8:17:51 AM EDT
7	ICAL 627 ng/mL	Standard	ICAL0905E	1.000	1.00	1	9/5/2009 9:23:21 AM EDT
8	HEXANE BLANK	Unknown	090905B03	1.000	1.00	1	9/5/2009 10:28:50 AM EDT
9	SUP CONG STD 200/5 ng/mL	Standard	SC0905A	1.000	1.00	1	9/5/2009 11:34:20 AM EDT
10	Surr Std (207) 2.0 ng/mL	Standard	SS0905A	1.000	1.00	1	9/5/2009 12:40:05 PM EDT
11	Surr Std (207) 20.0 ng/mL	Standard	SS0905B	1.000	1.00	1	9/5/2009 1:45:34 PM EDT
12	Surr TCMX/DCBP 5/50 ppb	Standard	TD0905A	1.000	1.00	1	9/5/2009 2:51:02 PM EDT
13	HEXANE BLANK	Unknown	090905B04	1.000	1.00	1	9/5/2009 3:56:30 PM EDT
14	CCC Std 122 ng/mL	Unknown	CCCS0905A	1.000	1.00	1	9/5/2009 5:01:55 PM EDT



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, New York 12308

Phone:(518) 346-4592 Fax:(518) 381-6055

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Sample Set Name: GC24\_102209c  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 10/22/2009 11:57:58  
Date Printed: 10/23/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	HEXANE BLANK	Unknown	091022B01	1.000	1.00	1	10/22/2009 11:57:58
2	CCC Std 122 ng/mL	Unknown	CCCS1022B	1.000	1.00	1	10/22/2009 13:03:40
3	ZZZZZ	Unknown	ZZZZZ	0.970	10.00	10	10/22/2009 14:09:29
4	ZZZZZ	Unknown	ZZZZZ	0.990	10.00	10	10/22/2009 15:15:26
5	ZZZZZ	Unknown	ZZZZZ	0.990	50.00	10	10/22/2009 16:20:58
6	ZZZZZ	Unknown	ZZZZZ	1.025	10.00	10	10/22/2009 17:26:32
7	ZZZZZ	Unknown	ZZZZZ	1.025	100.00	10	10/22/2009 18:32:06
8	ZZZZZ	Unknown	ZZZZZ	1.010	10.00	10	10/22/2009 19:37:38
9	ZZZZZ	Unknown	ZZZZZ	1.040	5.00	5	10/22/2009 20:43:10
10	ZZZZZ	Unknown	ZZZZZ	1.040	50.00	5	10/22/2009 21:48:39
11	CCC Std 122 ng/mL	Unknown	CCCS1022C	1.000	1.00	1	10/22/2009 22:54:10
12	WFF-LOC5-091021-BT001	Unknown	AM19658	1.040	5.00	5	10/22/2009 23:59:53
13	WFF-LOC5-091021-BT001	Unknown	AM19658DL1	1.040	50.00	5	10/23/2009 01:05:15
14	WFF-SCHU-091021-BT003	Unknown	AM19659	1.060	5.00	5	10/23/2009 02:10:34
15	WFF-SCHU-091021-BT003	Unknown	AM19659DL1	1.060	50.00	5	10/23/2009 03:15:52
16	WFF-THIS-091021-BT003	Unknown	AM19660	1.040	5.00	5	10/23/2009 04:21:10
17	WFF-THIS-091021-BT003	Unknown	AM19660DL1	1.040	50.00	5	10/23/2009 05:26:26
18	WFF-TIDA-091021-BT001	Unknown	AM19661	1.080	5.00	5	10/23/2009 06:31:40
19	WFF-TIDA-091021-BT001	Unknown	AM19661DL1	1.080	50.00	5	10/23/2009 07:36:55
20	WFF-WAFA-091021-BT001	Unknown	AM19662	1.080	5.00	5	10/23/2009 08:42:19
21	CCC Std 122 ng/mL	Unknown	CCCS1022D	1.000	1.00	1	10/23/2009 09:47:48
22	WFF-WAFA-091021-BT001	Unknown	AM19662DL1	1.080	50.00	5	10/23/2009 10:53:20
23	WFF-WAFO-091021-BT001	Unknown	AM19663	1.040	5.00	5	10/23/2009 11:58:54
24	WFF-WAFO-091021-BT001	Unknown	AM19663DL1	1.040	50.00	5	10/23/2009 13:06:59



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Sample Set Name: GC24\_102309a  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 10/23/2009 14:12:39  
Date Printed: 10/23/2009  
Report Name: CSGB\_SSReport (NeaLims)

**Sample Set Report Summary**

	Sample ID	Sample Type	Sample Name	Sample Amount	Dilution	Extract Volume	Date Acquired
1	METHOD BLANK	Unknown	AM19755B	1.000	5.00	5	10/23/2009 14:12:39
2	LAB CONTROL SPIKE	Unknown	AM19755L	1.000	5.00	5	10/23/2009 15:18:17
3	ZZZZZ	Unknown	ZZZZZ	0.980	5.00	5	10/23/2009 16:23:55
4	ZZZZZ	Unknown	ZZZZZ	0.980	50.00	5	10/23/2009 17:29:32
5	ZZZZZ	Unknown	ZZZZZ	1.060	5.00	5	10/23/2009 18:35:13
6	ZZZZZ	Unknown	ZZZZZ	1.060	50.00	5	10/23/2009 19:40:50
7	CCC Std 122 ng/mL	Unknown	CCCS1023A	1.000	1.00	1	10/23/2009 20:46:24



Project Name: GC24\_Mar\_2009  
Sample Set Name: GC24\_102309a  
Date Printed: 10/23/2009

**Operating Conditions Gas Chromatography**

User Name: Injection Method: Splitless  
Sample Size: 1.0 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 27.0psi Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector Type: ECD Detector Range: 4



Project Name: GC24\_Mar\_2009  
Sample Set Name: GC24\_102209c  
Date Printed: 10/23/2009

**Operating Conditions Gas Chromatography**

User Name: Keith Friedman                              Injection Method: Splitless  
Sample Size: 1.0 uL                                      Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C                          Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C                              Hold: 35.1 min

**Column Information**

Column ID: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium                                      Make-up Gas: Nitrogen  
Flow Pressure: 27.0psi                                      Make-up Flow: 65 mL/min  
Split Ratio: None

**Detector Information**

Detector Name:                                      Detector Type: ECD                                      Detector Range: 4

# Standards Summary Tables (GC-16)



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Sample Set Name: GC16\_CC\_082309  
Project Name: GC16\_May\_2009  
Sample Set Start Date: 08/23/2009 02:05:02 EDT  
Current Date: 09/02/2009  
Report Name: CSGB\_SumRpt\_OCNArea

**ICAL OCN Area Summary Report**

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0823A	ICAL 6.25 ng/mL	08/23/2009 04:27:16 EDT	168429
2	ICAL0823B	ICAL 12.5 ng/mL	08/23/2009 05:34:46 EDT	159698
3	ICAL0823C	ICAL 125 ng/mL	08/23/2009 06:42:13 EDT	170177
4	ICAL0823D	ICAL 314 ng/mL	08/23/2009 07:49:33 EDT	173183
5	ICAL0823E	ICAL 627 ng/mL	08/23/2009 08:56:52 EDT	165807
Mean				167459



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 Phone: (518) 346-4592 Fax: (518) 381-6055  
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System Name:	Instrument_16	Date Calibrated:	08/24/2009 13:26:35 EDT,
Sample Set Name:	GC16_CC_082309	Method Report:	CSGB CCSum by RF
Sample Set Date:	08/23/2009 02:05:02 EDT	User Name:	Inga Hotaling (IngaH)
Processing Method:	CSGB_LL1X_082309		

**Calibration Component Summary Table  
 Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)
1	ICAL0823A	0.029632		0.015881	0.060102	0.346398	0.261754	0.101880			
2	ICAL0823B	0.032835		0.016975	0.058221	0.423230	0.295591	0.131906		0.384454	
3	ICAL0823C	0.029210		0.016147	0.068134	0.479796	0.226028	0.122440		0.396596	
4	ICAL0823D	0.028105		0.014452	0.057309	0.453855	0.218794	0.114890		0.381476	
5	ICAL0823E				0.061254					0.341546	
6	SC0823A		0.002899						0.176869		0.665040
Mean		0.030	0.003	0.016	0.061	0.426	0.251	0.118	0.177	0.376	0.665
Std. Dev.		0.002		0.001	0.004	0.058	0.035	0.013		0.024	
% RSD		6.78		6.62	7.01	13.57	14.14	10.77		6.35	

**Calibration Component Summary Table  
 Component Summary For RF**

	12 (11)	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)
1			0.383997	0.158294	0.568224	0.328924			0.350888	0.705294	0.613919
2		0.245194	0.382202	0.186421	0.541246	0.357916		0.619883	0.401916	0.647251	0.552787
3		0.277784	0.395495	0.194169	0.535960	0.333910		0.712928	0.453098	0.728734	0.533093
4		0.287784	0.375045	0.181353	0.569882	0.315497		0.668511	0.424895	0.620919	0.512021
5					0.556099						
6	0.064897						0.396913				
Mean	0.065	0.270	0.384	0.180	0.554	0.334	0.397	0.667	0.408	0.676	0.553
Std. Dev.		0.022	0.008	0.015	0.015	0.018		0.047	0.043	0.050	0.044
% RSD		8.24	2.21	8.57	2.78	5.30		6.98	10.61	7.40	7.94

**Calibration Component Summary Table  
 Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
1	0.586455	0.496963	0.368009	0.484763		0.492024		0.334493	0.619104	1.370859
2	0.612478	0.499220	0.492274	0.501787		0.526016		0.386396	0.773561	1.209542
3	0.596122	0.455367	0.413615	0.501694		0.490549		0.378059	0.733789	1.017967
4	0.560491	0.442032	0.407109	0.507222		0.454125		0.355374	0.694636	0.951170
5										
6					0.301528		0.298422			
Mean	0.589	0.473	0.420	0.499	0.302	0.491	0.298	0.364	0.705	1.137

**Calibration Component Summary Table  
Component Summary For RF**

	24 (28,50)	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)
Std. Dev.	0.022	0.029	0.052	0.010		0.029		0.023	0.066	0.190
% RSD	3.70	6.14	12.39	1.95		5.98		6.44	9.34	16.73

**Calibration Component Summary Table  
Component Summary For RF**

	34 (48,75)	35 (62,65)	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)
1	0.835028			0.566170	0.458944	0.728777		0.509631		
2	0.797278			0.599105	0.462088	0.768393		0.508090		0.707261
3	0.783002			0.581960	0.467121	0.732026		0.605440		0.717802
4	0.704106			0.536620	0.450655	0.692542		0.598785		0.793915
5										
6		0.787266	0.281286				0.443464		0.605790	
Mean	0.780	0.787	0.281	0.571	0.460	0.730	0.443	0.555	0.606	0.740
Std. Dev.	0.055			0.027	0.007	0.031		0.054		0.047
% RSD	7.06			4.65	1.50	4.24		9.71		6.39

**Calibration Component Summary Table  
Component Summary For RF**

	45 (63)	46 (74,94,61)	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)
1	0.932380	0.937655	0.861708		0.604556	0.604177	0.851587	0.295758
2	0.798336	1.002220	0.838909		0.569632	0.582925	0.882795	0.314144
3	0.876852	1.029904	0.850054		0.569828	0.700596	0.832386	0.341422
4	0.812281	0.989533	0.799532		0.534135	0.671497	0.800105	0.319375
5								
6								
Mean	0.855	0.990	0.838		0.570	0.640	0.842	0.318
Std. Dev.	0.062	0.039	0.027		0.029	0.055	0.035	0.019
% RSD	7.24	3.90	3.22		5.05	8.66	4.12	5.92

**Calibration Component Summary Table  
Component Summary For RF**

	53 (90,101)	54 (79,99,113)	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)
1	0.612615	1.074533			0.788377		0.747611
2	0.644667	0.951802	1.818614	0.593047	0.885705	0.822042	0.930743
3	0.738803	1.140390	2.131712	0.724203	1.058072	0.804478	0.975828
4	0.681254	1.083548	1.826349	0.680132	0.947302	0.741962	0.940917
5							
6							
Mean	0.669	1.063	1.926	0.666	0.920	0.769	0.899
Std. Dev.	0.054	0.079	0.179	0.067	0.113	0.054	0.103
% RSD	8.09	7.47	9.27	10.02	12.28	7.01	11.42

**Calibration Component Summary Table  
Component Summary For RF**

	60 (120,136)	61 (77,110,148)	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)
1	0.669671	0.641252		1.016927	0.825962	1.454327	0.458432		
2	0.745420	0.630980		1.134854	0.818899	1.487540	0.515840	0.690004	
3	0.800029	0.734106		1.051477	0.815021	1.406136	0.515858	0.711530	
4	0.757777	0.683526		0.900550	0.759250	1.244419	0.500279	0.770566	
5									
6			0.711303						0.769564
Mean	0.743	0.672	0.711	1.026	0.805	1.398	0.498	0.724	0.770
Std. Dev.	0.054	0.047		0.097	0.031	0.108	0.027	0.042	
% RSD	7.31	6.98		9.47	3.81	7.71	5.45	5.76	

**Calibration Component Summary Table  
Component Summary For RF**

	69 (106,118,139,149)	70 (140)	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)
1	0.917208		1.106105		0.926113	1.123619	1.062408
2	0.884858		1.022079	1.909577	0.909918	1.108849	1.137977
3	0.914679		1.117389	2.188855	1.090203	1.153027	1.126951
4	0.840525		0.947250	2.009293	0.939225	1.082338	1.031638
5							
6		0.813822					
Mean	0.889	0.814	1.048	2.036	0.966	1.117	1.090
Std. Dev.	0.036		0.080	0.142	0.083	0.029	0.051
% RSD	4.01		7.59	6.95	8.63	2.64	4.69

**Calibration Component Summary Table  
Component Summary For RF**

	76 (127,168,184)	77 (141)	78 (179)	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)
1		0.656338	0.726963		1.894839	1.246194	1.557575		0.475544
2		0.660579	0.870319	0.881047	1.943213	0.892152	1.451698	6.007449	0.532805
3		0.720416	0.910090	0.852217	2.019416	1.010861	1.358386	7.182843	0.574829
4		0.645898	0.789843	0.835262	1.732219	0.949063	1.188130	7.071409	0.533033
5									
6	0.662615								
Mean	0.663	0.671	0.824	0.856	1.897	1.025	1.389	6.754	0.529
Std. Dev.		0.034	0.082	0.023	0.121	0.156	0.157	0.649	0.041
% RSD		5.02	9.94	2.70	6.40	15.18	11.28	9.61	7.71

**Calibration Component Summary Table  
Component Summary For RF**

	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
1		1.073924		0.818987		1.509153	1.045167	0.916464	0.647711	7.382299
2	0.581956	1.068903	1.389781	0.763510	1.558518	1.367680	0.961705	0.744351	0.885260	6.985274
3	0.734180	0.986819	1.772792	0.981578	1.865307	1.428605	0.953185	0.853863	0.909689	6.297338
4	0.651759	0.935849	1.554016	0.902713	1.782484	1.314779	0.908188	0.801864	0.866166	6.033590

**Calibration Component Summary Table  
Component Summary For RF**

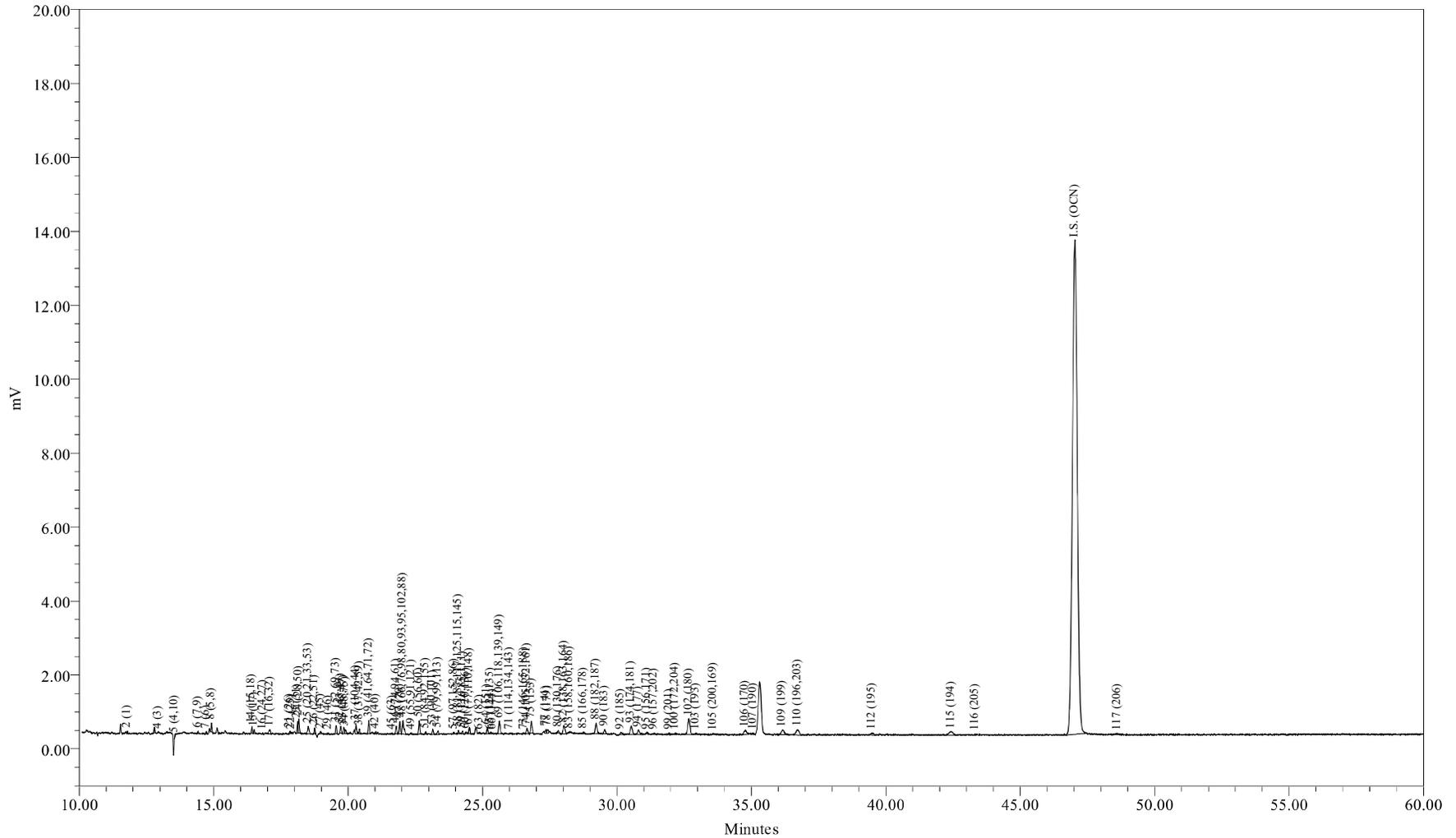
	87 (175,159)	88 (182,187)	89 (128,162)	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)
5										
6										
Mean	0.656	1.016	1.572	0.867	1.735	1.405	0.967	0.829	0.827	6.675
Std. Dev.	0.076	0.067	0.192	0.096	0.159	0.084	0.057	0.073	0.121	0.619
% RSD	11.62	6.58	12.22	11.03	9.15	5.95	5.91	8.85	14.63	9.28

**Calibration Component Summary Table  
Component Summary For RF**

	98 (173)	99 (201)	100 (172,204)	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)
1		0.895254	0.919050		1.166489	0.888579		0.751066	1.746600	1.308494
2	1.489567	0.853033	0.874241	0.880843	1.181870	0.882562	0.882789	0.985890	1.717970	1.276878
3	1.476009	0.856582	0.819298	0.854574	1.088211	0.908205	0.926962	0.903351	1.620384	1.358495
4	1.218267	0.801005	0.785456	0.777560	1.036246	0.855976	0.899561	0.903833	1.580043	1.340224
5										
6										
Mean	1.395	0.851	0.850	0.838	1.118	0.884	0.903	0.886	1.666	1.321
Std. Dev.	0.153	0.039	0.059	0.054	0.068	0.022	0.022	0.098	0.079	0.036
% RSD	10.96	4.54	6.95	6.41	6.11	2.44	2.47	11.06	4.73	2.72

**Calibration Component Summary Table  
Component Summary For RF**

	108 (198)	109 (199)	110 (196,203)	111 (189)	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1		0.622931	0.776259		1.946851			1.671979	0.743385	1.029802	
2	1.621528	0.625734	0.728915	1.439485	1.564712	0.664993	1.202962	1.782264	0.882512	1.440221	1.033291
3	1.334339	0.639792	0.690651	1.522675	1.812150	0.691812	1.252099	1.469936	0.898096	1.431730	0.943801
4	1.282073	0.605368	0.659811	1.355694	1.752089	0.616906	1.321091	1.416871	0.892335	1.336120	1.157604
5											
6											
Mean	1.413	0.623	0.714	1.439	1.769	0.658	1.259	1.585	0.854	1.309	1.045
Std. Dev.	0.183	0.014	0.050	0.083	0.159	0.038	0.059	0.171	0.074	0.192	0.107
% RSD	12.94	2.27	7.04	5.80	8.97	5.77	4.71	10.80	8.67	14.69	10.28



Sample Name: ICAL0823A  
Sample ID: ICAL 6.25 ng/mL  
Date Acquired: 08/23/2009 04:27:16 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-3

Sample Name: ICAL0823A

1 of 1



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Sample Name: ICAL0823A Sample Amount: 1  
 Sample ID: ICAL 6.25 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 04:27:16 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:22 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:06:33 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-3

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	120	0.439	0.439	0.029632
2	3 (2)	12.830				
3	4 (3)	12.937	38	0.256	0.256	0.015881
4	5 (4,10)	13.550	69	0.124	0.124	0.060102
5	6 (7,9)	14.424	141	0.044	0.044	0.346398
6	7 (6)	14.733	168	0.069	0.069	0.261754
7	8 (5,8)	14.917	483	0.512	0.512	0.101880
8	9 (14)	15.480				
9	10 (19)	15.557				
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.290				
13	14 (15,18)	16.422	481	0.135	0.135	0.383997
14	15 (17)	16.507	198	0.135	0.135	0.158294
15	16 (24,27)	16.823	50	0.009	0.009	0.568224
16	17 (16,32)	17.098	434	0.143	0.143	0.328924
17	19 (23,34,54)	17.532				
18	20 (29)	17.713				
19	21 (26)	17.822	86	0.026	0.026	0.350888
20	22 (25)	17.904	76	0.012	0.012	0.705294
21	23 (31)	18.116	857	0.151	0.151	0.613919
22	24 (28,50)	18.169	1048	0.193	0.193	0.586455
23	25 (20,21,33,53)	18.518	668	0.145	0.145	0.496963
24	26 (22,51)	18.756	361	0.106	0.106	0.368009
25	27 (45)	18.983	146	0.033	0.033	0.484763
26	28 (36)	19.120				
27	29 (46)	19.263	67	0.015	0.015	0.492024
28	30 (39)	19.386				

**Peak Results**

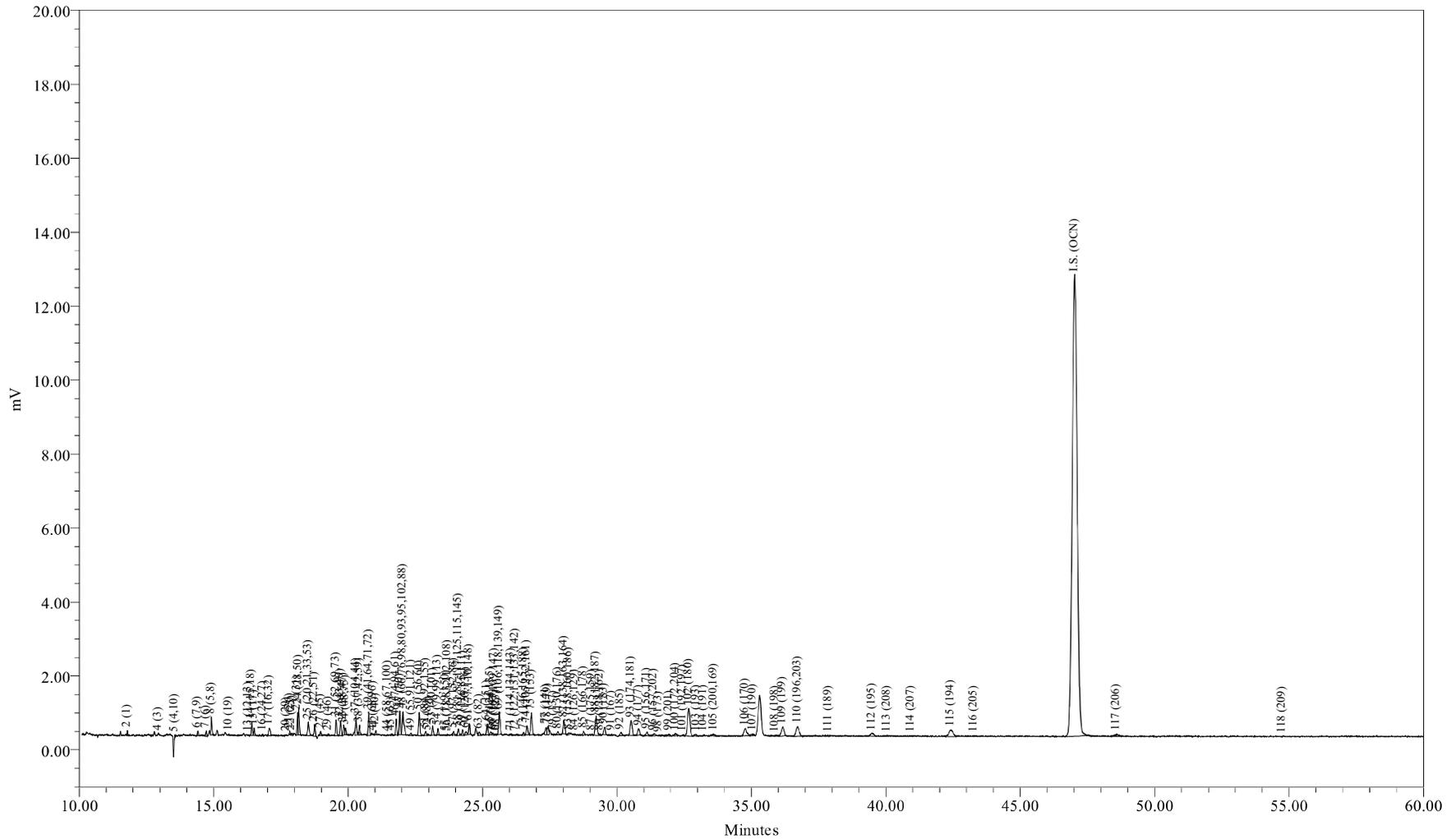
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.556	540	0.174	0.174	0.334493
30	32 (43,49)	19.725	482	0.084	0.084	0.619104
31	33 (38,47)	19.839	464	0.037	0.037	1.370859
32	34 (48,75)	19.888	283	0.037	0.037	0.835028
33	35 (62,65)	20.043				
34	36 (35)	20.126				
35	37 (104,44)	20.293	824	0.157	0.157	0.566170
36	38 (37,42,59)	20.427	404	0.095	0.095	0.458944
37	39 (41,64,71,72)	20.773	1012	0.150	0.150	0.728777
38	41 (68,96)	20.934				
39	42 (40)	21.031	162	0.034	0.034	0.509631
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.455				
42	45 (63)	21.638	66	0.008	0.008	0.932380
43	46 (74,94,61)	21.794	603	0.069	0.069	0.937655
44	47 (70)	21.925	992	0.124	0.124	0.861708
45	48 (66,76,98,80,93,95,102,88)	22.042	1474	0.263	0.263	0.604556
46	49 (55,91,121)	22.362	104	0.019	0.019	0.604177
47	50 (56,60)	22.648	1009	0.128	0.128	0.851587
48	51 (84,92,155)	22.886	180	0.066	0.066	0.295758
49	52 (89)	22.984				
50	53 (90,101)	23.144	373	0.066	0.066	0.612615
51	54 (79,99,113)	23.344	269	0.027	0.027	1.074533
52	55 (119,150)	23.613				
53	56 (78,83,112,108)	23.706				
54	57 (97,152,86)	23.936	149	0.020	0.020	0.788377
55	58 (81,87,117,125,115,145)	24.099	277	0.042	0.042	0.706397
56	59 (116,85,111)	24.257	177	0.026	0.026	0.747611
57	60 (120,136)	24.388	170	0.027	0.027	0.669671
58	61 (77,110,148)	24.513	462	0.078	0.078	0.641252
59	62 (154)	24.788				
60	63 (82)	24.889	151	0.016	0.016	1.016927
61	64 (151)	25.175	475	0.062	0.062	0.825962
62	65 (124,135)	25.294	143	0.011	0.011	1.454327
63	66 (144)	25.383	93	0.022	0.022	0.458432
64	67 (107,109,147)	25.438				
65	68 (123)	25.528				
66	69 (106,118,139,149)	25.625	1242	0.146	0.146	0.917208
67	70 (140)	25.741				
68	71 (114,134,143)	26.015	76	0.007	0.007	1.106105

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.233				
70	73 (146,165,188)	26.540	122	0.014	0.014	0.926113
71	74 (105,132,161)	26.658	515	0.050	0.050	1.123619
72	75 (153)	26.816	1059	0.108	0.108	1.062408
73	76 (127,168,184)	26.932				
74	77 (141)	27.355	378	0.062	0.062	0.656338
75	78 (179)	27.427	359	0.053	0.053	0.726963
76	79 (137)	27.645				
77	80 (130,176)	27.815	167	0.009	0.009	1.894839
78	82 (138,163,164)	28.029	1139	0.099	0.099	1.246194
79	83 (158,160,186)	28.235	132	0.009	0.009	1.557575
80	84 (126,129)	28.423				
81	85 (166,178)	28.760	177	0.040	0.040	0.475544
82	87 (175,159)	29.078				
83	88 (182,187)	29.221	1309	0.132	0.132	1.073924
84	89 (128,162)	29.355				
85	90 (183)	29.548	471	0.062	0.062	0.818987
86	91 (167)	29.825				
87	92 (185)	30.147	240	0.017	0.017	1.509153
88	93 (174,181)	30.531	1132	0.117	0.117	1.045167
89	94 (177)	30.799	528	0.062	0.062	0.916464
90	95 (156,171)	31.115	173	0.029	0.029	0.647711
91	96 (157,202)	31.385	165	0.002	0.002	7.382299
92	98 (173)	31.545				
93	99 (201)	31.942	118	0.014	0.014	0.895254
94	100 (172,204)	32.169	174	0.020	0.020	0.919050
95	101 (192,197)	32.480				
96	102 (180)	32.676	2409	0.223	0.223	1.166489
97	103 (193)	32.942	126	0.015	0.015	0.888579
98	104 (191)	33.226				
99	105 (200,169)	33.581	109	0.016	0.016	0.751066
100	106 (170)	34.773	757	0.047	0.047	1.746600
101	107 (190)	35.080	186	0.015	0.015	1.308494
102	108 (198)	35.919				
103	109 (199)	36.156	886	0.154	0.154	0.622931
104	110 (196,203)	36.718	1130	0.157	0.157	0.776259
105	111 (189)	37.898				
106	112 (195)	39.487	364	0.020	0.020	1.946851
107	113 (208)	40.015				
108	114 (207)	40.966				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.442	1019	0.066	0.066	1.671979
110	116 (205)	43.330	28	0.004	0.004	0.743385
111	I.S. (OCN)	47.034	168429	18.180	18.180	9264.517093
112	117 (206)	48.611	237	0.025	0.025	1.029802
113	118 (209)	54.729				



Sample Name: ICAL0823B  
Sample ID: ICAL 12.5 ng/mL  
Date Acquired: 08/23/2009 05:34:46 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-4

Sample Name: ICAL0823B

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
 www.nealab.com

Sample Name: ICAL0823B Sample Amount: 1  
 Sample ID: ICAL 12.5 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 05:34:46 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:24 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:06:44 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-4

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	253	0.877	0.877	0.032835
2	3 (2)	12.830				
3	4 (3)	12.936	76	0.512	0.512	0.016975
4	5 (4,10)	13.556	127	0.249	0.249	0.058221
5	6 (7,9)	14.408	326	0.088	0.088	0.423230
6	7 (6)	14.728	361	0.139	0.139	0.295591
7	8 (5,8)	14.915	1186	1.023	1.023	0.131906
8	9 (14)	15.480				
9	10 (19)	15.563	69	0.020	0.020	0.384454
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.297	42	0.020	0.020	0.245194
13	14 (15,18)	16.421	908	0.270	0.270	0.382202
14	15 (17)	16.505	443	0.270	0.270	0.186421
15	16 (24,27)	16.825	90	0.019	0.019	0.541246
16	17 (16,32)	17.070	896	0.285	0.285	0.357916
17	19 (23,34,54)	17.532				
18	20 (29)	17.706	21	0.004	0.004	0.619883
19	21 (26)	17.829	186	0.053	0.053	0.401916
20	22 (25)	17.903	133	0.023	0.023	0.647251
21	23 (31)	18.115	1463	0.301	0.301	0.552787
22	24 (28,50)	18.165	2075	0.386	0.386	0.612478
23	25 (20,21,33,53)	18.521	1273	0.290	0.290	0.499220
24	26 (22,51)	18.754	917	0.212	0.212	0.492274
25	27 (45)	18.976	287	0.065	0.065	0.501787
26	28 (36)	19.120				
27	29 (46)	19.264	135	0.029	0.029	0.526016
28	30 (39)	19.386				

**Peak Results**

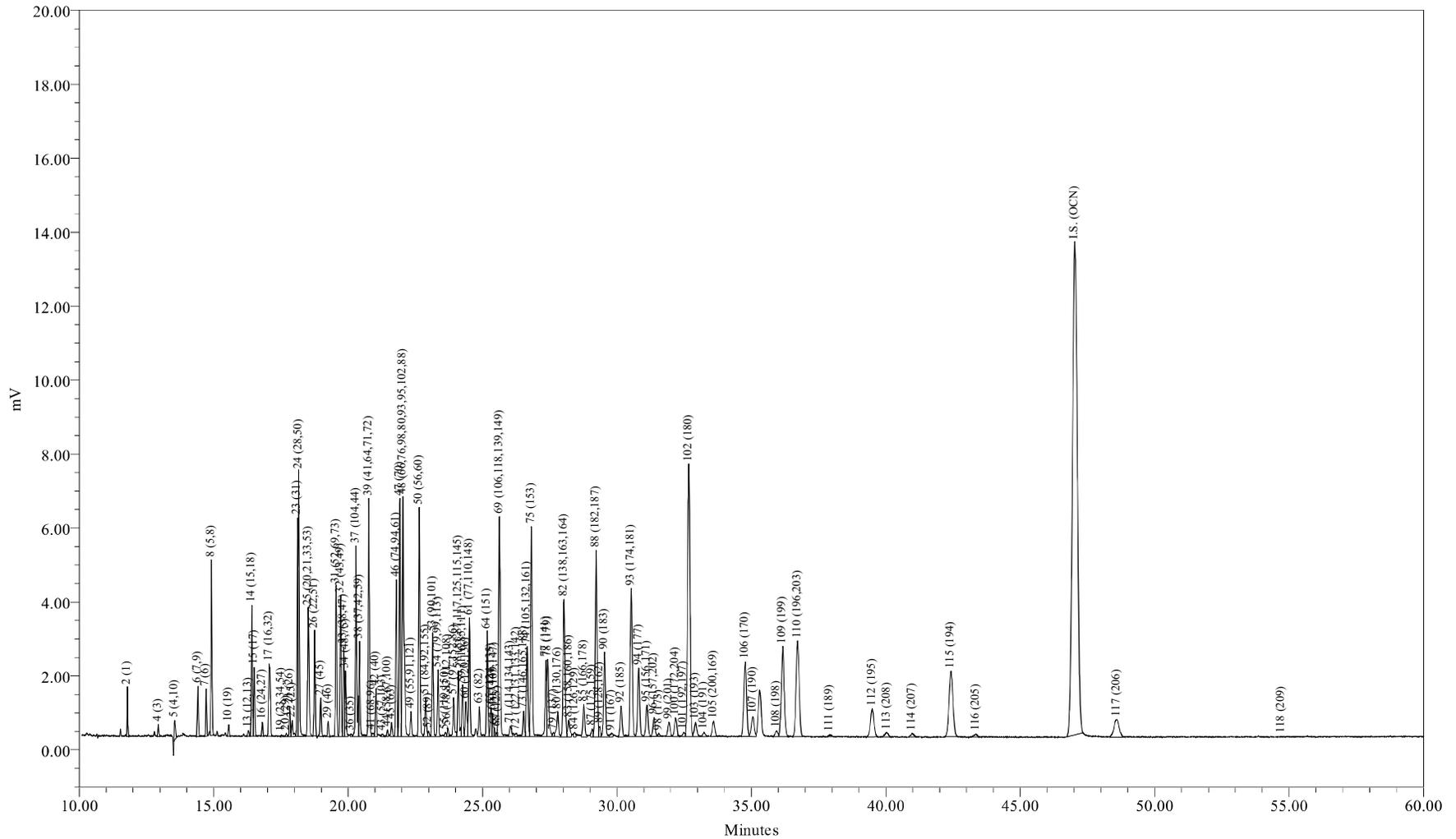
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552	1183	0.349	0.349	0.386396
30	32 (43,49)	19.719	1142	0.168	0.168	0.773561
31	33 (38,47)	19.834	777	0.073	0.073	1.209542
32	34 (48,75)	19.897	512	0.073	0.073	0.797278
33	35 (62,65)	20.043				
34	36 (35)	20.126				
35	37 (104,44)	20.292	1654	0.314	0.314	0.599105
36	38 (37,42,59)	20.424	771	0.190	0.190	0.462088
37	39 (41,64,71,72)	20.769	2023	0.300	0.300	0.768393
38	41 (68,96)	20.934	19			
39	42 (40)	21.032	307	0.069	0.069	0.508090
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.465	50	0.008	0.008	0.707261
42	45 (63)	21.615	108	0.015	0.015	0.798336
43	46 (74,94,61)	21.789	1223	0.139	0.139	1.002220
44	47 (70)	21.921	1831	0.249	0.249	0.838909
45	48 (66,76,98,80,93,95,102,88)	22.040	2633	0.526	0.526	0.569632
46	49 (55,91,121)	22.351	191	0.037	0.037	0.582925
47	50 (56,60)	22.649	1984	0.256	0.256	0.882795
48	51 (84,92,155)	22.880	363	0.132	0.132	0.314144
49	52 (89)	22.969	43	0.007	0.007	0.673304
50	53 (90,101)	23.139	745	0.132	0.132	0.644667
51	54 (79,99,113)	23.337	452	0.054	0.054	0.951802
52	55 (119,150)	23.638	33	0.002	0.002	1.818614
53	56 (78,83,112,108)	23.701	57	0.011	0.011	0.593047
54	57 (97,152,86)	23.925	318	0.041	0.041	0.885705
55	58 (81,87,117,125,115,145)	24.101	612	0.085	0.085	0.822042
56	59 (116,85,111)	24.253	418	0.051	0.051	0.930743
57	60 (120,136)	24.386	359	0.055	0.055	0.745420
58	61 (77,110,148)	24.507	863	0.156	0.156	0.630980
59	62 (154)	24.788				
60	63 (82)	24.871	321	0.032	0.032	1.134854
61	64 (151)	25.171	894	0.124	0.124	0.818899
62	65 (124,135)	25.301	277	0.021	0.021	1.487540
63	66 (144)	25.374	199	0.044	0.044	0.515840
64	67 (107,109,147)	25.442	58	0.009	0.009	0.690004
65	68 (123)	25.525	28			
66	69 (106,118,139,149)	25.622	2273	0.292	0.292	0.884858
67	70 (140)	25.741				
68	71 (114,134,143)	26.054	133	0.015	0.015	1.022079

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.226	36	0.002	0.002	1.909577
70	73 (146,165,188)	26.536	228	0.029	0.029	0.909918
71	74 (105,132,161)	26.652	965	0.099	0.099	1.108849
72	75 (153)	26.819	2152	0.215	0.215	1.137977
73	76 (127,168,184)	26.932				
74	77 (141)	27.358	721	0.124	0.124	0.660579
75	78 (179)	27.425	816	0.107	0.107	0.870319
76	79 (137)	27.643	42	0.005	0.005	0.881047
77	80 (130,176)	27.802	324	0.019	0.019	1.943213
78	82 (138,163,164)	28.027	1547	0.197	0.197	0.892152
79	83 (158,160,186)	28.205	233	0.018	0.018	1.451698
80	84 (126,129)	28.430	50	0.001	0.001	6.007449
81	85 (166,178)	28.757	376	0.080	0.080	0.532805
82	87 (175,159)	29.071	75	0.015	0.015	0.581956
83	88 (182,187)	29.226	2471	0.263	0.263	1.068903
84	89 (128,162)	29.379	89	0.007	0.007	1.389781
85	90 (183)	29.528	833	0.124	0.124	0.763510
86	91 (167)	29.799	49	0.004	0.004	1.558518
87	92 (185)	30.137	413	0.034	0.034	1.367680
88	93 (174,181)	30.529	1976	0.234	0.234	0.961705
89	94 (177)	30.812	812	0.124	0.124	0.744351
90	95 (156,171)	31.120	449	0.058	0.058	0.885260
91	96 (157,202)	31.371	296	0.005	0.005	6.985274
92	98 (173)	31.550	36	0.003	0.003	1.489567
93	99 (201)	31.924	214	0.029	0.029	0.853033
94	100 (172,204)	32.177	314	0.041	0.041	0.874241
95	101 (192,197)	32.456	62	0.008	0.008	0.880843
96	102 (180)	32.668	4629	0.446	0.446	1.181870
97	103 (193)	32.960	238	0.031	0.031	0.882562
98	104 (191)	33.229	68	0.009	0.009	0.882789
99	105 (200,169)	33.603	272	0.031	0.031	0.985890
100	106 (170)	34.773	1412	0.094	0.094	1.717970
101	107 (190)	35.048	344	0.031	0.031	1.276878
102	108 (198)	35.892	125	0.009	0.009	1.621528
103	109 (199)	36.163	1687	0.307	0.307	0.625734
104	110 (196,203)	36.721	2013	0.314	0.314	0.728915
105	111 (189)	37.883	37	0.003	0.003	1.439485
106	112 (195)	39.491	555	0.040	0.040	1.564712
107	113 (208)	40.056	105	0.018	0.018	0.664993
108	114 (207)	40.942	72	0.007	0.007	1.202962

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.407	2060	0.132	0.132	1.782264
110	116 (205)	43.285	62	0.008	0.008	0.882512
111	I.S. (OCN)	47.029	159698	18.180	18.180	8784.251140
112	117 (206)	48.580	629	0.050	0.050	1.440221
113	118 (209)	54.738	8	0.001	0.001	1.033291



Sample Name: ICAL0823C  
Sample ID: ICAL 125 ng/mL  
Date Acquired: 08/23/2009 06:42:13 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-5

Sample Name: ICAL0823C

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
 Phone: (518) 346-4592 Fax: (518) 381-6055  
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Sample Name: ICAL0823C Sample Amount: 1  
 Sample ID: ICAL 125 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 06:42:13 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:44:54 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:06:52 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-5

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	2398	8.771	8.771	0.029210
2	3 (2)	12.830				
3	4 (3)	12.937	773	5.117	5.117	0.016147
4	5 (4,10)	13.547	1585	2.485	2.485	0.068134
5	6 (7,9)	14.413	3939	0.877	0.877	0.479796
6	7 (6)	14.722	2938	1.389	1.389	0.226028
7	8 (5,8)	14.915	11729	10.233	10.233	0.122440
8	9 (14)	15.480				
9	10 (19)	15.559	760	0.205	0.205	0.396596
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.297	507	0.195	0.195	0.277784
13	14 (15,18)	16.422	10012	2.704	2.704	0.395495
14	15 (17)	16.508	4916	2.704	2.704	0.194169
15	16 (24,27)	16.808	953	0.190	0.190	0.535960
16	17 (16,32)	17.064	8910	2.851	2.851	0.333910
17	19 (23,34,54)	17.524	306			
18	20 (29)	17.705	259	0.039	0.039	0.712928
19	21 (26)	17.831	2232	0.526	0.526	0.453098
20	22 (25)	17.917	1596	0.234	0.234	0.728734
21	23 (31)	18.116	15038	3.014	3.014	0.533093
22	24 (28,50)	18.167	21524	3.857	3.857	0.596122
23	25 (20,21,33,53)	18.519	12375	2.903	2.903	0.455367
24	26 (22,51)	18.751	8207	2.120	2.120	0.413615
25	27 (45)	18.980	3055	0.650	0.650	0.501694
26	28 (36)	19.120				
27	29 (46)	19.257	1343	0.292	0.292	0.490549
28	30 (39)	19.386				

**Peak Results**

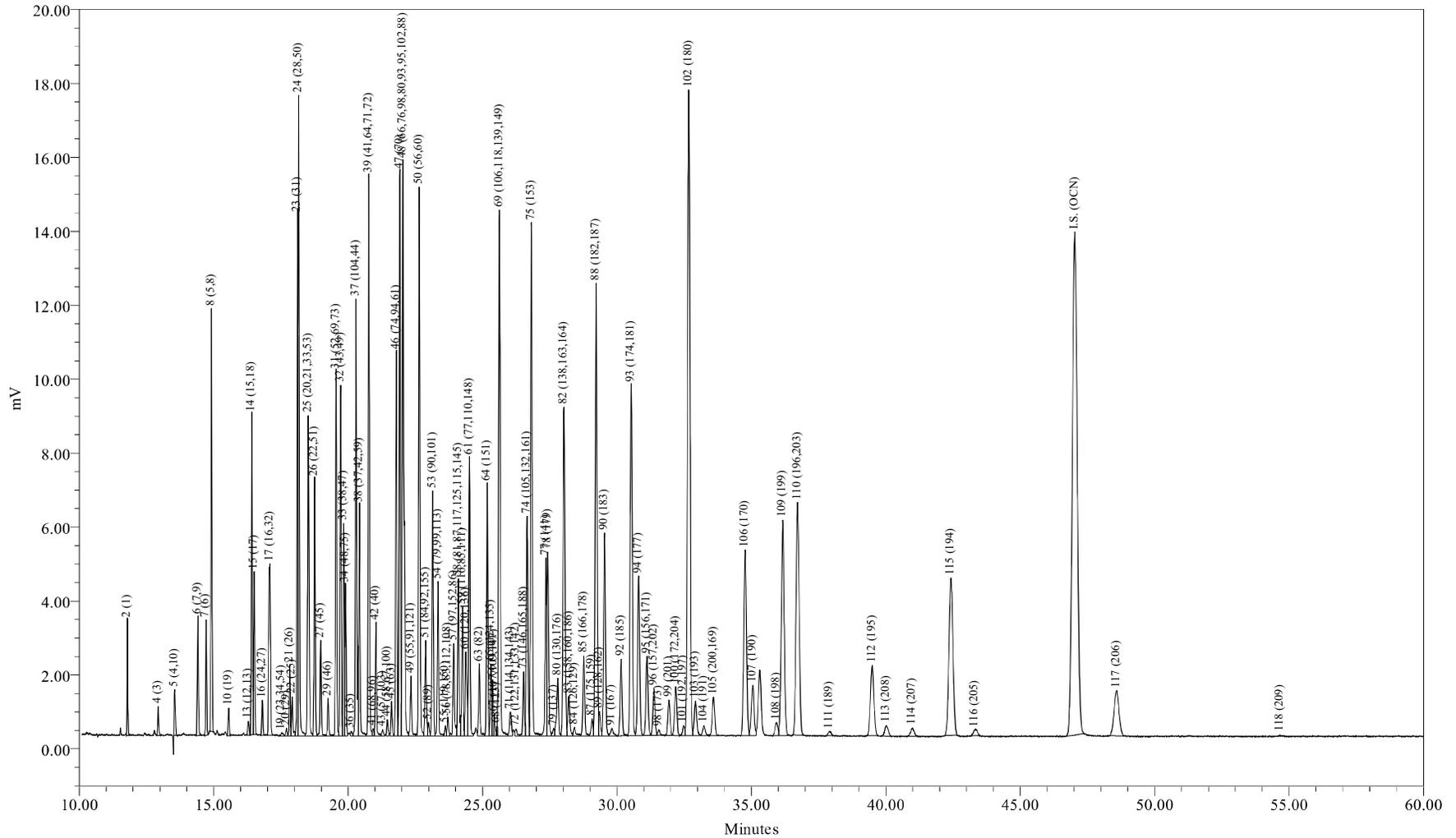
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.551	12339	3.487	3.487	0.378059
30	32 (43,49)	19.721	11548	1.681	1.681	0.733789
31	33 (38,47)	19.837	6966	0.731	0.731	1.017967
32	34 (48,75)	19.899	5358	0.731	0.731	0.783002
33	35 (62,65)	20.043				
34	36 (35)	20.114	293			
35	37 (104,44)	20.293	17122	3.143	3.143	0.581960
36	38 (37,42,59)	20.424	8310	1.901	1.901	0.467121
37	39 (41,64,71,72)	20.771	20536	2.997	2.997	0.732026
38	41 (68,96)	20.877	498			
39	42 (40)	21.034	3894	0.687	0.687	0.605440
40	43 (57,103)	21.281	371			
41	44 (58,67,100)	21.465	540	0.080	0.080	0.717802
42	45 (63)	21.619	1260	0.154	0.154	0.876852
43	46 (74,94,61)	21.792	13389	1.389	1.389	1.029904
44	47 (70)	21.923	19775	2.485	2.485	0.850054
45	48 (66,76,98,80,93,95,102,88)	22.041	28071	5.263	5.263	0.569828
46	49 (55,91,121)	22.339	2445	0.373	0.373	0.700596
47	50 (56,60)	22.649	19933	2.558	2.558	0.832386
48	51 (84,92,155)	22.884	4205	1.316	1.316	0.341422
49	52 (89)	22.991	541	0.073	0.073	0.790446
50	53 (90,101)	23.146	9099	1.316	1.316	0.738803
51	54 (79,99,113)	23.341	5774	0.541	0.541	1.140390
52	55 (119,150)	23.616	409	0.020	0.020	2.131712
53	56 (78,83,112,108)	23.711	743	0.110	0.110	0.724203
54	57 (97,152,86)	23.926	4054	0.409	0.409	1.058072
55	58 (81,87,117,125,115,145)	24.101	6385	0.848	0.848	0.804478
56	59 (116,85,111)	24.254	4674	0.512	0.512	0.975828
57	60 (120,136)	24.377	4105	0.548	0.548	0.800029
58	61 (77,110,148)	24.510	10698	1.557	1.557	0.734106
59	62 (154)	24.788				
60	63 (82)	24.877	3165	0.322	0.322	1.051477
61	64 (151)	25.174	9480	1.243	1.243	0.815021
62	65 (124,135)	25.313	2791	0.212	0.212	1.406136
63	66 (144)	25.373	2118	0.439	0.439	0.515858
64	67 (107,109,147)	25.440	633	0.095	0.095	0.711530
65	68 (123)	25.553	394			
66	69 (106,118,139,149)	25.626	25034	2.924	2.924	0.914679
67	70 (140)	25.741				
68	71 (114,134,143)	26.031	1544	0.148	0.148	1.117389

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.257	436	0.021	0.021	2.188855
70	73 (146,165,188)	26.529	2910	0.285	0.285	1.090203
71	74 (105,132,161)	26.661	10689	0.990	0.990	1.153027
72	75 (153)	26.819	22709	2.153	2.153	1.126951
73	76 (127,168,184)	26.932				
74	77 (141)	27.358	8379	1.243	1.243	0.720416
75	78 (179)	27.428	9092	1.067	1.067	0.910090
76	79 (137)	27.638	437	0.055	0.055	0.852217
77	80 (130,176)	27.795	3591	0.190	0.190	2.019416
78	82 (138,163,164)	28.026	18675	1.974	1.974	1.010861
79	83 (158,160,186)	28.211	2323	0.183	0.183	1.358386
80	84 (126,129)	28.430	636	0.009	0.009	7.182843
81	85 (166,178)	28.764	4326	0.804	0.804	0.574829
82	87 (175,159)	29.075	1005	0.146	0.146	0.734180
83	88 (182,187)	29.224	24307	2.631	2.631	0.986819
84	89 (128,162)	29.357	1213	0.073	0.073	1.772792
85	90 (183)	29.534	11417	1.243	1.243	0.981578
86	91 (167)	29.800	626	0.036	0.036	1.865307
87	92 (185)	30.151	4593	0.343	0.343	1.428605
88	93 (174,181)	30.532	20869	2.339	2.339	0.953185
89	94 (177)	30.809	9932	1.243	1.243	0.853863
90	95 (156,171)	31.120	4918	0.578	0.578	0.909689
91	96 (157,202)	31.382	2846	0.048	0.048	6.297338
92	98 (173)	31.561	384	0.028	0.028	1.476009
93	99 (201)	31.930	2286	0.285	0.285	0.856582
94	100 (172,204)	32.178	3139	0.409	0.409	0.819298
95	101 (192,197)	32.479	643	0.080	0.080	0.854574
96	102 (180)	32.671	45419	4.459	4.459	1.088211
97	103 (193)	32.925	2610	0.307	0.307	0.908205
98	104 (191)	33.241	761	0.088	0.088	0.926962
99	105 (200,169)	33.598	2658	0.314	0.314	0.903351
100	106 (170)	34.773	14191	0.936	0.936	1.620384
101	107 (190)	35.052	3904	0.307	0.307	1.358495
102	108 (198)	35.932	1095	0.088	0.088	1.334339
103	109 (199)	36.169	18386	3.070	3.070	0.639792
104	110 (196,203)	36.721	20320	3.143	3.143	0.690651
105	111 (189)	37.915	416	0.029	0.029	1.522675
106	112 (195)	39.497	6855	0.404	0.404	1.812150
107	113 (208)	40.047	1169	0.180	0.180	0.691812
108	114 (207)	40.982	797	0.068	0.068	1.252099

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.427	18103	1.316	1.316	1.469936
110	116 (205)	43.353	676	0.080	0.080	0.898096
111	I.S. (OCN)	47.026	170177	18.180	18.180	9360.685917
112	117 (206)	48.598	6660	0.497	0.497	1.431730
113	118 (209)	54.712	78	0.009	0.009	0.943801



Sample Name: ICAL0823D  
Sample ID: ICAL 314 ng/mL  
Date Acquired: 08/23/2009 07:49:33 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-6



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
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Sample Name: ICAL0823D Sample Amount: 1  
 Sample ID: ICAL 314 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 07:49:33 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:27 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:07:09 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-6

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.792	5871	21.928	21.928	0.028105
2	3 (2)	12.830				
3	4 (3)	12.934	1761	12.792	12.792	0.014452
4	5 (4,10)	13.546	3392	6.213	6.213	0.057309
5	6 (7,9)	14.413	9480	2.193	2.193	0.453855
6	7 (6)	14.723	7236	3.472	3.472	0.218794
7	8 (5,8)	14.914	27999	25.583	25.583	0.114890
8	9 (14)	15.480				
9	10 (19)	15.558	1860	0.512	0.512	0.381476
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.289	1337	0.488	0.488	0.287784
13	14 (15,18)	16.420	24156	6.761	6.761	0.375045
14	15 (17)	16.508	11681	6.761	6.761	0.181353
15	16 (24,27)	16.808	2578	0.475	0.475	0.569882
16	17 (16,32)	17.092	21419	7.127	7.127	0.315497
17	19 (23,34,54)	17.524	566			
18	20 (29)	17.708	618	0.097	0.097	0.668511
19	21 (26)	17.832	5326	1.316	1.316	0.424895
20	22 (25)	17.915	3459	0.585	0.585	0.620919
21	23 (31)	18.114	36748	7.534	7.534	0.512021
22	24 (28,50)	18.165	51487	9.643	9.643	0.560491
23	25 (20,21,33,53)	18.518	30563	7.258	7.258	0.442032
24	26 (22,51)	18.750	20553	5.300	5.300	0.407109
25	27 (45)	18.979	7857	1.626	1.626	0.507222
26	28 (36)	19.120				
27	29 (46)	19.254	3163	0.731	0.731	0.454125
28	30 (39)	19.386				

**Peak Results**

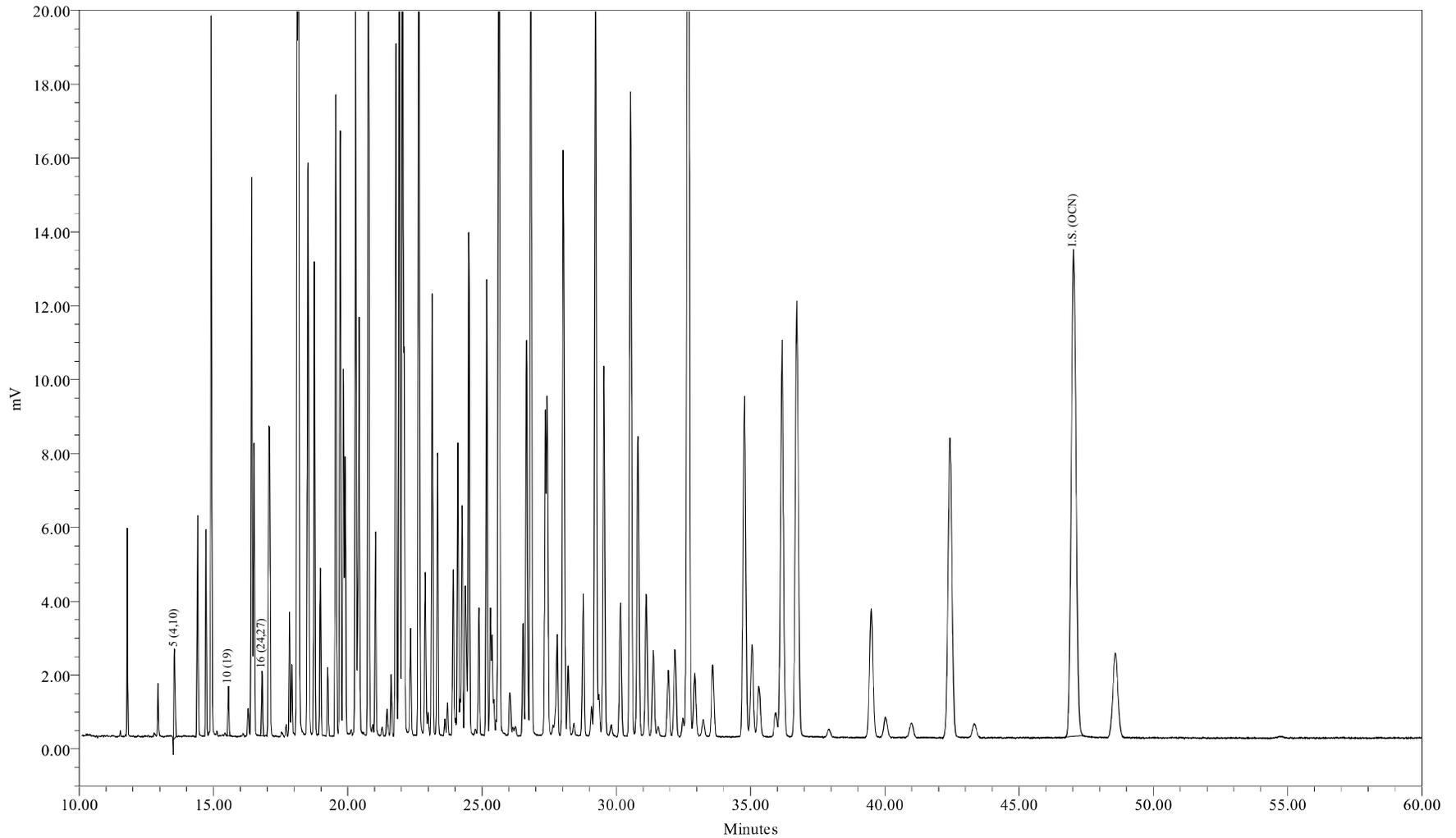
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552	29508	8.716	8.716	0.355374
30	32 (43,49)	19.722	27812	4.203	4.203	0.694636
31	33 (38,47)	19.837	16560	1.828	1.828	0.951170
32	34 (48,75)	19.899	12258	1.828	1.828	0.704106
33	35 (62,65)	20.043				
34	36 (35)	20.117	555			
35	37 (104,44)	20.292	40168	7.858	7.858	0.536620
36	38 (37,42,59)	20.422	20397	4.751	4.751	0.450655
37	39 (41,64,71,72)	20.771	49428	7.492	7.492	0.692542
38	41 (68,96)	20.929	646			
39	42 (40)	21.034	9798	1.718	1.718	0.598785
40	43 (57,103)	21.287	736			
41	44 (58,67,100)	21.460	1520	0.201	0.201	0.793915
42	45 (63)	21.618	2969	0.384	0.384	0.812281
43	46 (74,94,61)	21.791	32728	3.472	3.472	0.989533
44	47 (70)	21.922	47320	6.213	6.213	0.799532
45	48 (66,76,98,80,93,95,102,88)	22.039	66945	13.157	13.157	0.534135
46	49 (55,91,121)	22.339	5962	0.932	0.932	0.671497
47	50 (56,60)	22.645	48747	6.396	6.396	0.800105
48	51 (84,92,155)	22.883	10007	3.289	3.289	0.319375
49	52 (89)	22.987	1248	0.183	0.183	0.717089
50	53 (90,101)	23.145	21346	3.289	3.289	0.681254
51	54 (79,99,113)	23.340	13958	1.352	1.352	1.083548
52	55 (119,150)	23.620	891	0.051	0.051	1.826349
53	56 (78,83,112,108)	23.712	1775	0.274	0.274	0.680132
54	57 (97,152,86)	23.926	9233	1.023	1.023	0.947302
55	58 (81,87,117,125,115,145)	24.100	14982	2.120	2.120	0.741962
56	59 (116,85,111)	24.255	11467	1.279	1.279	0.940917
57	60 (120,136)	24.377	9893	1.370	1.370	0.757777
58	61 (77,110,148)	24.510	25343	3.892	3.892	0.683526
59	62 (154)	24.788				
60	63 (82)	24.877	6897	0.804	0.804	0.900550
61	64 (151)	25.175	22468	3.106	3.106	0.759250
62	65 (124,135)	25.308	6284	0.530	0.530	1.244419
63	66 (144)	25.373	5226	1.097	1.097	0.500279
64	67 (107,109,147)	25.437	1743	0.237	0.237	0.770566
65	68 (123)	25.530	719			
66	69 (106,118,139,149)	25.625	58526	7.309	7.309	0.840525
67	70 (140)	25.741				
68	71 (114,134,143)	26.037	3329	0.369	0.369	0.947250

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.241	1018	0.053	0.053	2.009293
70	73 (146,165,188)	26.530	6378	0.713	0.713	0.939225
71	74 (105,132,161)	26.660	25528	2.476	2.476	1.082338
72	75 (153)	26.817	52890	5.382	5.382	1.031638
73	76 (127,168,184)	26.932				
74	77 (141)	27.359	19114	3.106	3.106	0.645898
75	78 (179)	27.426	20074	2.668	2.668	0.789843
76	79 (137)	27.647	1090	0.137	0.137	0.835262
77	80 (130,176)	27.795	7836	0.475	0.475	1.732219
78	82 (138,163,164)	28.026	44879	4.964	4.964	0.949063
79	83 (158,160,186)	28.209	5169	0.457	0.457	1.188130
80	84 (126,129)	28.417	1593	0.024	0.024	7.071409
81	85 (166,178)	28.765	10206	2.010	2.010	0.533033
82	87 (175,159)	29.070	2269	0.366	0.366	0.651759
83	88 (182,187)	29.223	58646	6.578	6.578	0.935849
84	89 (128,162)	29.344	2706	0.183	0.183	1.554016
85	90 (183)	29.535	26713	3.106	3.106	0.902713
86	91 (167)	29.803	1522	0.090	0.090	1.782484
87	92 (185)	30.153	10754	0.859	0.859	1.314779
88	93 (174,181)	30.531	50588	5.847	5.847	0.908188
89	94 (177)	30.806	23729	3.106	3.106	0.801864
90	95 (156,171)	31.118	11914	1.444	1.444	0.866166
91	96 (157,202)	31.381	6937	0.121	0.121	6.033590
92	98 (173)	31.558	806	0.069	0.069	1.218267
93	99 (201)	31.933	5439	0.713	0.713	0.801005
94	100 (172,204)	32.188	7656	1.023	1.023	0.785456
95	101 (192,197)	32.475	1489	0.201	0.201	0.777560
96	102 (180)	32.669	110036	11.147	11.147	1.036246
97	103 (193)	32.920	6258	0.768	0.768	0.855976
98	104 (191)	33.236	1879	0.219	0.219	0.899561
99	105 (200,169)	33.593	6765	0.786	0.786	0.903833
100	106 (170)	34.767	35205	2.339	2.339	1.580043
101	107 (190)	35.048	9799	0.768	0.768	1.340224
102	108 (198)	35.933	2677	0.219	0.219	1.282073
103	109 (199)	36.164	44260	7.675	7.675	0.605368
104	110 (196,203)	36.718	49389	7.858	7.858	0.659811
105	111 (189)	37.905	942	0.073	0.073	1.355694
106	112 (195)	39.496	16863	1.010	1.010	1.752089
107	113 (208)	40.024	2652	0.451	0.451	0.616906
108	114 (207)	40.986	2139	0.170	0.170	1.321091

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.422	44395	3.289	3.289	1.416871
110	116 (205)	43.309	1708	0.201	0.201	0.892335
111	I.S. (OCN)	47.032	173183	18.180	18.180	9526.041452
112	117 (206)	48.593	15813	1.242	1.242	1.336120
113	118 (209)	54.659	244	0.022	0.022	1.157604



Sample Name: ICAL0823E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 08/23/2009 08:56:52 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-7

Sample Name: ICAL0823E

1 of 1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308  
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Sample Name: ICAL0823E Sample Amount: 1  
 Sample ID: ICAL 627 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 08:56:52 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:29 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:07:18 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-7

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.789				
2	3 (2)	12.830				
3	4 (3)	12.934				
4	5 (4,10)	13.546	6942	12.426	12.426	0.061254
5	6 (7,9)	14.409				
6	7 (6)	14.721				
7	8 (5,8)	14.914				
8	9 (14)	15.480				
9	10 (19)	15.558	3189	1.024	1.024	0.341546
10	11 (30)	16.028				
11	12 (11)	16.092				
12	13 (12,13)	16.290				
13	14 (15,18)	16.422				
14	15 (17)	16.508				
15	16 (24,27)	16.810	4817	0.950	0.950	0.556099
16	17 (16,32)	17.077				
17	19 (23,34,54)	17.532				
18	20 (29)	17.713				
19	21 (26)	17.830				
20	22 (25)	17.916				
21	23 (31)	18.115				
22	24 (28,50)	18.164				
23	25 (20,21,33,53)	18.519				
24	26 (22,51)	18.752				
25	27 (45)	18.980				
26	28 (36)	19.120				
27	29 (46)	19.255				
28	30 (39)	19.386				

**Peak Results**

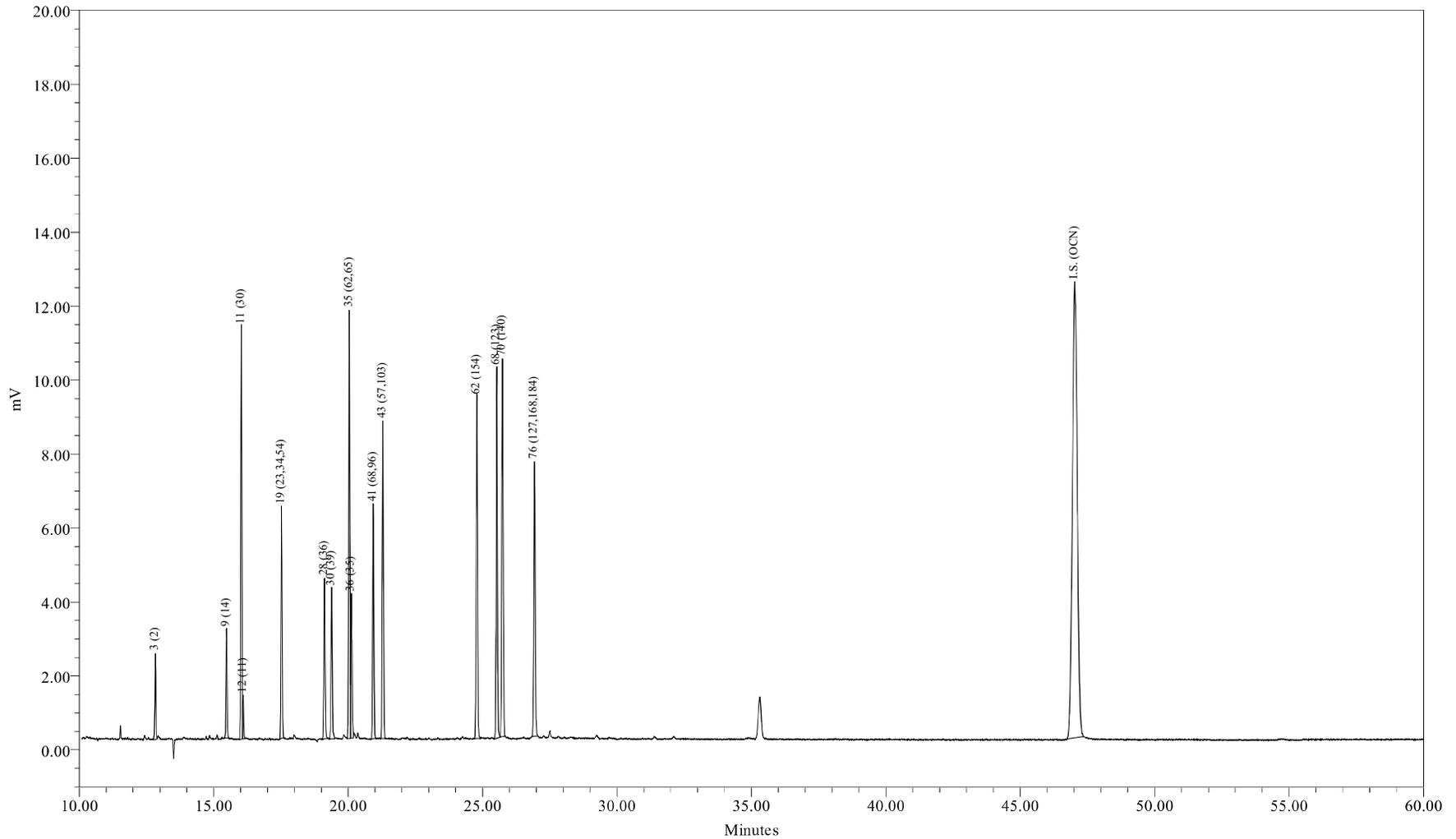
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552				
30	32 (43,49)	19.719				
31	33 (38,47)	19.836				
32	34 (48,75)	19.900				
33	35 (62,65)	20.043				
34	36 (35)	20.126				
35	37 (104,44)	20.292				
36	38 (37,42,59)	20.426				
37	39 (41,64,71,72)	20.770				
38	41 (68,96)	20.934				
39	42 (40)	21.035				
40	43 (57,103)	21.291				
41	44 (58,67,100)	21.455				
42	45 (63)	21.616				
43	46 (74,94,61)	21.791				
44	47 (70)	21.923				
45	48 (66,76,98,80,93,95,102,88)	22.042				
46	49 (55,91,121)	22.335				
47	50 (56,60)	22.642				
48	51 (84,92,155)	22.879				
49	52 (89)	22.984				
50	53 (90,101)	23.139				
51	54 (79,99,113)	23.337				
52	55 (119,150)	23.613				
53	56 (78,83,112,108)	23.706				
54	57 (97,152,86)	23.930				
55	58 (81,87,117,125,115,145)	24.099				
56	59 (116,85,111)	24.256				
57	60 (120,136)	24.380				
58	61 (77,110,148)	24.506				
59	62 (154)	24.788				
60	63 (82)	24.873				
61	64 (151)	25.170				
62	65 (124,135)	25.303				
63	66 (144)	25.373				
64	67 (107,109,147)	25.438				
65	68 (123)	25.528				
66	69 (106,118,139,149)	25.623				
67	70 (140)	25.741				
68	71 (114,134,143)	26.040				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.233				
70	73 (146,165,188)	26.523				
71	74 (105,132,161)	26.664				
72	75 (153)	26.821				
73	76 (127,168,184)	26.932				
74	77 (141)	27.352				
75	78 (179)	27.423				
76	79 (137)	27.645				
77	80 (130,176)	27.795				
78	82 (138,163,164)	28.023				
79	83 (158,160,186)	28.213				
80	84 (126,129)	28.423				
81	85 (166,178)	28.766				
82	87 (175,159)	29.078				
83	88 (182,187)	29.222				
84	89 (128,162)	29.355				
85	90 (183)	29.534				
86	91 (167)	29.825				
87	92 (185)	30.153				
88	93 (174,181)	30.528				
89	94 (177)	30.807				
90	95 (156,171)	31.108				
91	96 (157,202)	31.378				
92	98 (173)	31.545				
93	99 (201)	31.924				
94	100 (172,204)	32.182				
95	101 (192,197)	32.480				
96	102 (180)	32.666				
97	103 (193)	32.919				
98	104 (191)	33.226				
99	105 (200,169)	33.578				
100	106 (170)	34.765				
101	107 (190)	35.040				
102	108 (198)	35.919				
103	109 (199)	36.162				
104	110 (196,203)	36.710				
105	111 (189)	37.898				
106	112 (195)	39.493				
107	113 (208)	40.015				
108	114 (207)	40.966				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.421				
110	116 (205)	43.318				
111	I.S. (OCN)	47.028	165807	18.180	18.180	9120.293904
112	117 (206)	48.573				
113	118 (209)	54.729				



Sample Name: SC0823A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 08/23/2009 11:11:32 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-9

Sample Name: SC0823A

1 of 1



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Sample Name: SC0823A Sample Amount: 1  
 Sample ID: SUP CONG STD 200/5 ng/mL Dilution: 1  
 Date Acquired: 08/23/2009 11:11:32 EDT Extract Volume: 1  
 Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:26:31 EDT  
 Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
 Processing Method: CSGB\_LL1X\_082309 Current Date: 09/02/2009  
 Run Time: 60.0 Minutes Current Time: 01:07:30 US/Eastern  
 Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-9

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.789				
2	3 (2)	12.830	4953	200.000	200.000	0.002899
3	4 (3)	12.934				
4	5 (4,10)	13.545				
5	6 (7,9)	14.409				
6	7 (6)	14.721				
7	8 (5,8)	14.914				
8	9 (14)	15.479	7556	5.000	5.000	0.176869
9	10 (19)	15.557				
10	11 (30)	16.030	28410	5.000	5.000	0.665040
11	12 (11)	16.092	2772	5.000	5.000	0.064897
12	13 (12,13)	16.290				
13	14 (15,18)	16.422				
14	15 (17)	16.508				
15	16 (24,27)	16.808				
16	17 (16,32)	17.077				
17	19 (23,34,54)	17.525	16956	5.000	5.000	0.396913
18	20 (29)	17.713				
19	21 (26)	17.830				
20	22 (25)	17.916				
21	23 (31)	18.115				
22	24 (28,50)	18.164				
23	25 (20,21,33,53)	18.519				
24	26 (22,51)	18.752				
25	27 (45)	18.980				
26	28 (36)	19.120	12881	5.000	5.000	0.301528
27	29 (46)	19.255				
28	30 (39)	19.384	12749	5.000	5.000	0.298422

**Peak Results**

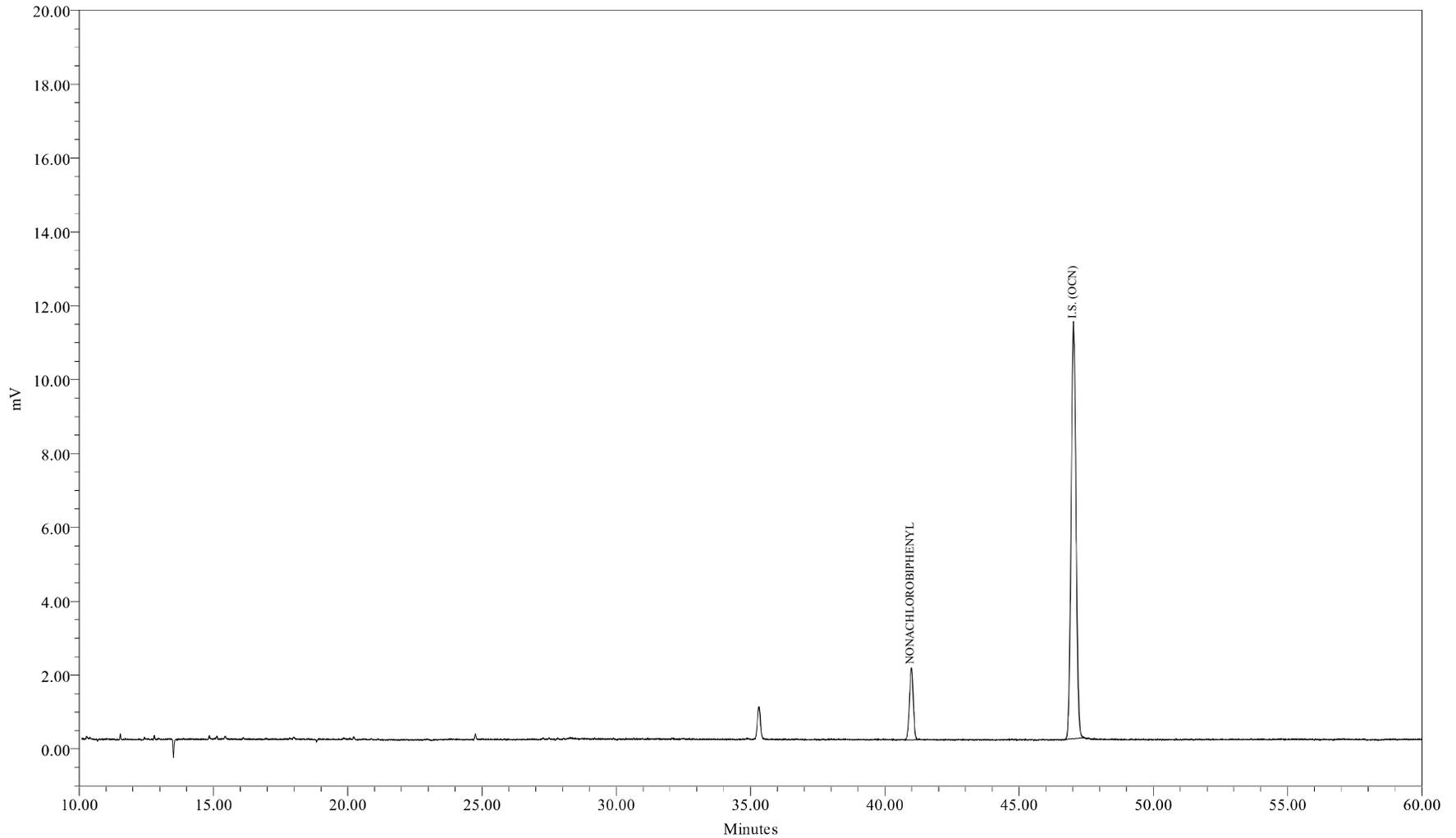
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.552				
30	32 (43,49)	19.719				
31	33 (38,47)	19.836				
32	34 (48,75)	19.900				
33	35 (62,65)	20.043	33632	5.000	5.000	0.787266
34	36 (35)	20.125	12016	5.000	5.000	0.281286
35	37 (104,44)	20.292				
36	38 (37,42,59)	20.426				
37	39 (41,64,71,72)	20.770				
38	41 (68,96)	20.936	18945	5.000	5.000	0.443464
39	42 (40)	21.035				
40	43 (57,103)	21.292	25879	5.000	5.000	0.605790
41	44 (58,67,100)	21.455				
42	45 (63)	21.616				
43	46 (74,94,61)	21.791				
44	47 (70)	21.923				
45	48 (66,76,98,80,93,95,102,88)	22.042				
46	49 (55,91,121)	22.335				
47	50 (56,60)	22.642				
48	51 (84,92,155)	22.879				
49	52 (89)	22.984				
50	53 (90,101)	23.139				
51	54 (79,99,113)	23.337				
52	55 (119,150)	23.613				
53	56 (78,83,112,108)	23.706				
54	57 (97,152,86)	23.930				
55	58 (81,87,117,125,115,145)	24.099				
56	59 (116,85,111)	24.256				
57	60 (120,136)	24.380				
58	61 (77,110,148)	24.506				
59	62 (154)	24.789	30387	5.000	5.000	0.711303
60	63 (82)	24.873				
61	64 (151)	25.170				
62	65 (124,135)	25.303				
63	66 (144)	25.373				
64	67 (107,109,147)	25.438				
65	68 (123)	25.530	32876	5.000	5.000	0.769564
66	69 (106,118,139,149)	25.623				
67	70 (140)	25.740	34766	5.000	5.000	0.813822
68	71 (114,134,143)	26.040				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
69	72 (122,131,133,142)	26.233				
70	73 (146,165,188)	26.523				
71	74 (105,132,161)	26.664				
72	75 (153)	26.821				
73	76 (127,168,184)	26.932	28307	5.000	5.000	0.662615
74	77 (141)	27.352				
75	78 (179)	27.423				
76	79 (137)	27.645				
77	80 (130,176)	27.795				
78	82 (138,163,164)	28.023				
79	83 (158,160,186)	28.213				
80	84 (126,129)	28.423				
81	85 (166,178)	28.766				
82	87 (175,159)	29.078				
83	88 (182,187)	29.222				
84	89 (128,162)	29.355				
85	90 (183)	29.534				
86	91 (167)	29.825				
87	92 (185)	30.153				
88	93 (174,181)	30.528				
89	94 (177)	30.807				
90	95 (156,171)	31.108				
91	96 (157,202)	31.378				
92	98 (173)	31.545				
93	99 (201)	31.924				
94	100 (172,204)	32.182				
95	101 (192,197)	32.480				
96	102 (180)	32.666				
97	103 (193)	32.919				
98	104 (191)	33.226				
99	105 (200,169)	33.578				
100	106 (170)	34.765				
101	107 (190)	35.040				
102	108 (198)	35.919				
103	109 (199)	36.162				
104	110 (196,203)	36.710				
105	111 (189)	37.898				
106	112 (195)	39.493				
107	113 (208)	40.015				
108	114 (207)	40.966				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
109	115 (194)	42.421				
110	116 (205)	43.318				
111	I.S. (OCN)	47.026	155329	18.180	18.180	8543.971717
112	117 (206)	48.573				
113	118 (209)	54.729				



Sample Name: SS0823A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 08/23/2009 12:18:49 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_2\_082309  
LIMS File ID: GC16-769-10

Sample Name: SS0823A

1 of 1

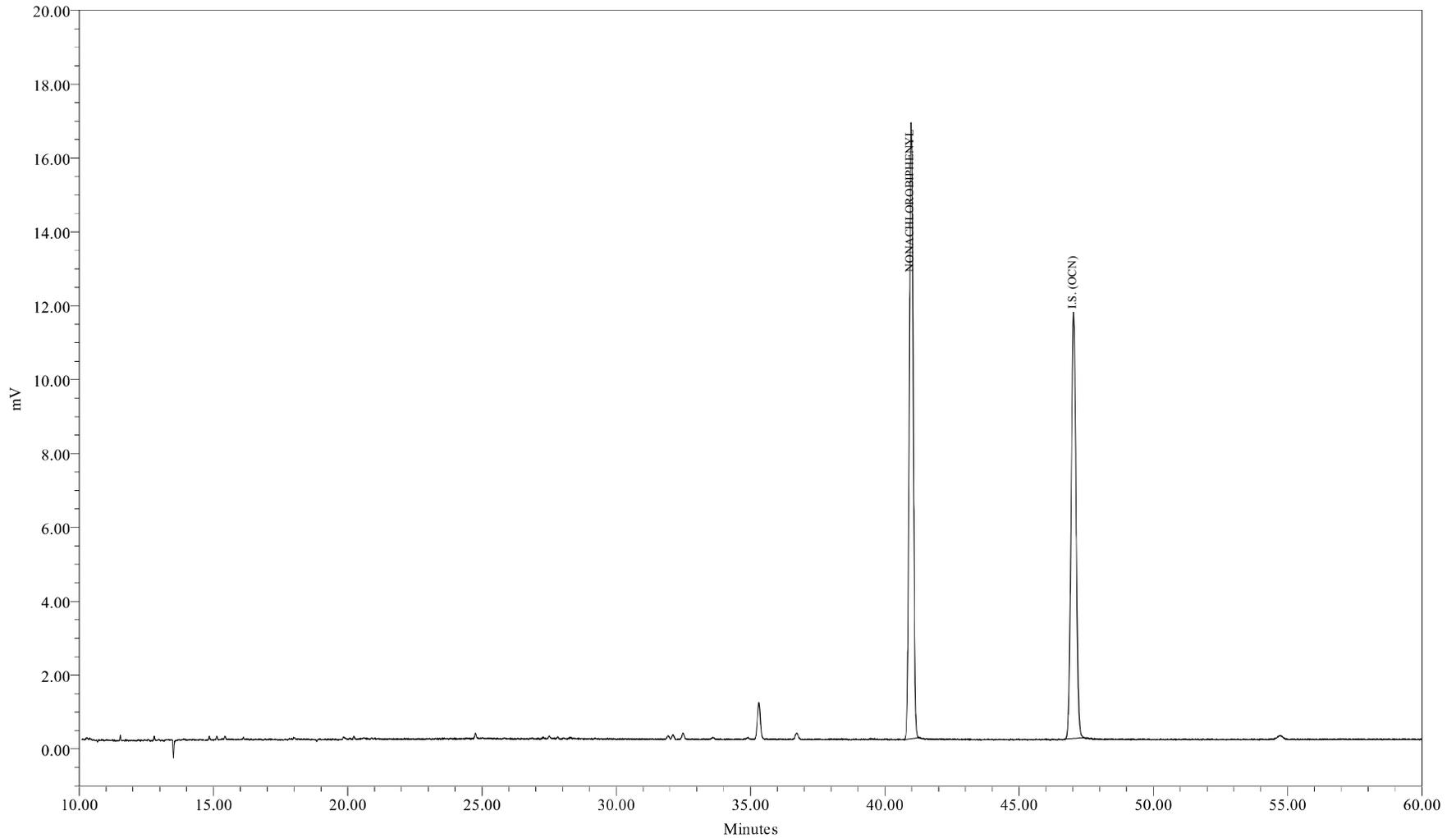


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Sample Name: SS0823A Sample Amount: 1  
Sample ID: Surr Std (207) 2.0 ng/mL Dilution: 1  
Date Acquired: 08/23/2009 12:18:49 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:29:07 EDT  
Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_2\_082309 Current Date: 09/02/2009  
Run Time: 60.0 Minutes Current Time: 01:07:40 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-10

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.987	19130	2.000	2.000	1.219928
2	I.S. (OCN)	47.024	142546	18.180	18.180	7840.805241



Sample Name: SS0823B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 08/23/2009 13:26:05 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_S\_20\_082309  
LIMS File ID: GC16-769-11

Sample Name: SS0823B

1 of 1

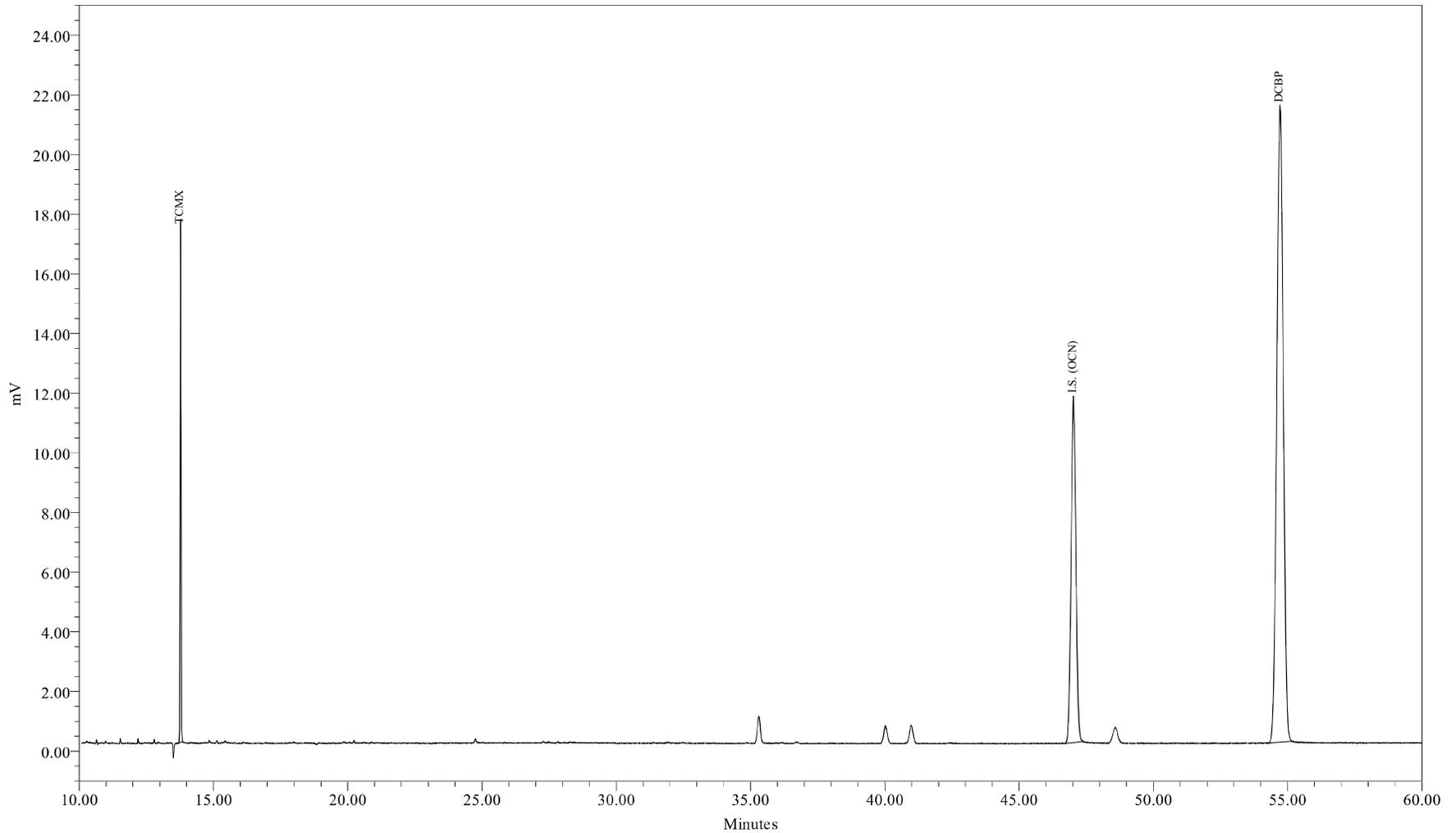


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Sample Name: SS0823B Sample Amount: 1  
Sample ID: Surr Std (207) 20.0 ng/mL Dilution: 1  
Date Acquired: 08/23/2009 13:26:05 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:29:51 EDT  
Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_S\_20\_082309 Current Date: 09/02/2009  
Run Time: 60.0 Minutes Current Time: 01:07:48 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-11

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	40.981	168883	20.000	20.000	1.047607
2	I.S. (OCN)	47.020	146538	18.180	18.180	8060.411822



Sample Name: TD0823A  
Sample ID: Surr TCMX/DCBP 5/50 ppb  
Date Acquired: 08/23/2009 14:33:23 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_TD\_S\_082309  
LIMS File ID: GC16-769-I2

Sample Name: TD0823A

1 of 1

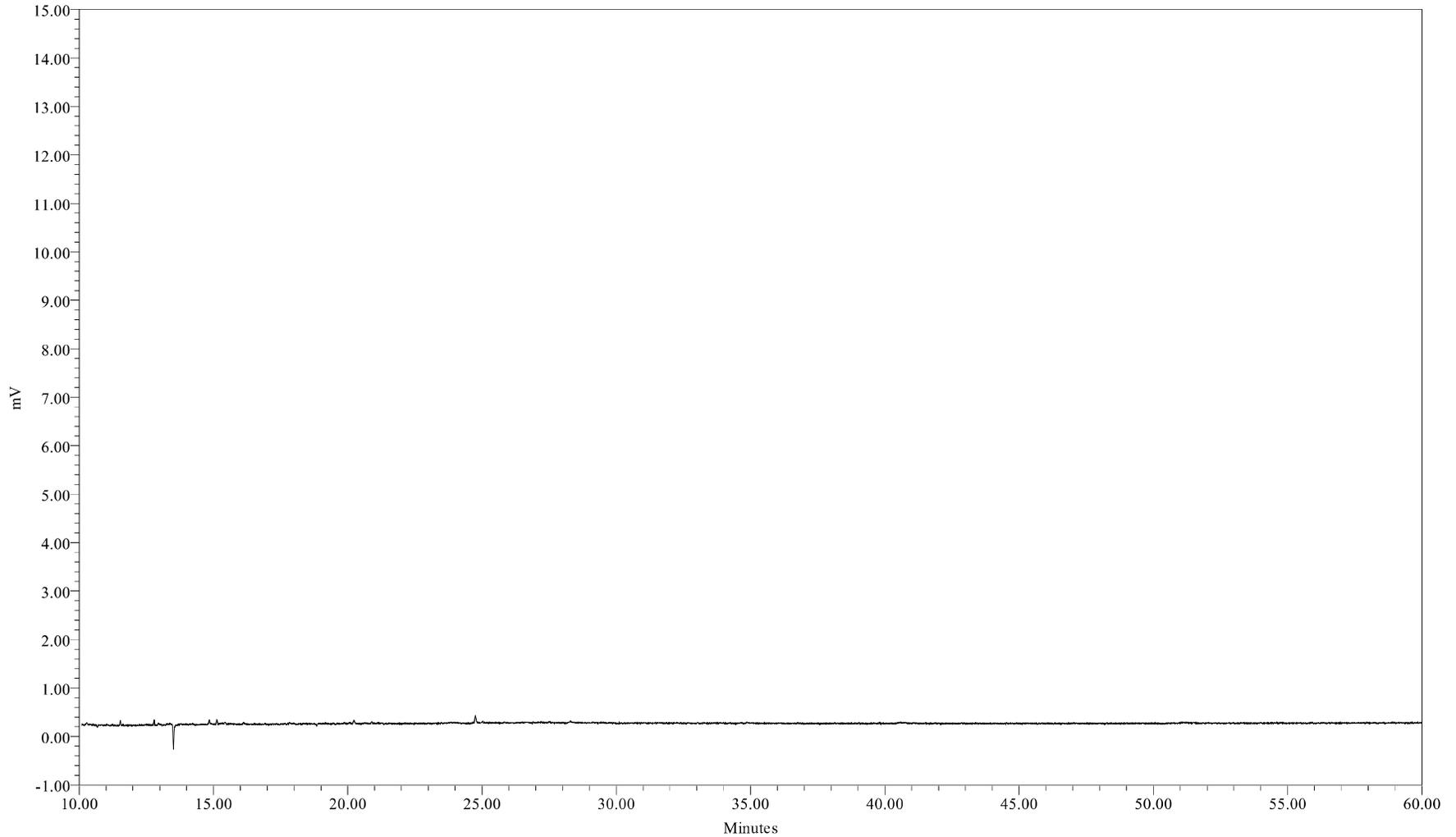


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Sample Name: TD0823A Sample Amount: 1  
Sample ID: Surr TCMX/DCBP 5/50 ppb Dilution: 1  
Date Acquired: 08/23/2009 14:33:23 EDT Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 08/24/2009 13:32:44 EDT  
Sample Set Name: GC16\_CC\_082309 User Name: Inga Hotaling (IngaH)  
Processing Method: CSGB\_TD\_S\_082309 Current Date: 09/02/2009  
Run Time: 60.0 Minutes Current Time: 01:07:58 US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC16-769-12

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	TCMX	13.776	37299	5.000	5.000	0.947344
2	I.S. (OCN)	47.022	143157	18.180	18.180	7874.442526
3	DCBP	54.716	358570	50.000	50.000	0.910717



Sample Name: 090823B04  
Sample ID: HEXANE BLANK  
Date Acquired: 08/23/2009 15:40:42 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-769-13

Sample Name: 090823B04

1 of 1



# Northeast Analytical, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS1022A File ID: GC16-827-2		Continuing Calibration CCCS1022B File ID: GC16-827-10		Continuing Calibration	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.33	-1.75	1.29	-4.65		
37 (104,44)	3.06	+/-15	3.46	13.2	3.43	12.1		
47 (70)	2.42	+/-15	2.56	5.79	2.53	4.69		
93 (174,181)	2.28	+/-15	2.51	10.1	2.45	7.34		
102 (180)	4.35	+/-15	4.62	6.31	4.57	5.17		
116 (205)	0.0788	+/-30	0.0729	-7.51	0.0755	-4.15		
Total CCCS Conc.	122	+/-15	131	7.45	129	5.43		

### Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS1022A	2380 uV	1190 uV	677 uV
CCCS1022B	2258 uV	1129 uV	655 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS1022A	2668 uV	889.3 uV	134 uV
CCCS1022B	2556 uV	852 uV	127 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS1022A	CCCS1022A File ID: GC16-827-2		CCCS1022B File ID: GC16-827-10		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.79		11.79			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.94		12.93			
4	5 (4,10)	+/-0.07	13.54		13.54			
5	6 (7,9)	+/-0.07	14.41		14.41			
6	7 (6)	+/-0.07	14.72		14.72			
7	8 (5,8)	+/-0.07	14.92		14.91			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.56		15.55			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	16.30		16.30			
13	14 (15,18)	+/-0.07	16.42		16.42			
14	15 (17)	+/-0.07	16.51		16.51			
15	16 (24,27)	+/-0.07	16.81		16.80			
16	17 (16,32)	+/-0.07	17.06		17.06			
17	19 (23,34,54)	+/-0.07	17.54		17.50			
18	20 (29)	+/-0.07	17.72		17.70			
19	21 (26)	+/-0.07	17.83		17.83			
20	22 (25)	+/-0.07	17.92		17.91			
21	23 (31)	+/-0.07	18.12		18.11			
22	24 (28,50)	+/-0.07	18.16		18.16			
23	25 (20,21,33,53)	+/-0.07	18.52		18.52			
24	26 (22,51)	+/-0.07	18.75		18.75			
25	27 (45)	+/-0.07	18.98		18.97			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	19.26		19.25			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.55		19.55			
30	32 (43,49)	+/-0.07	19.72		19.72			
31	33 (38,47)	+/-0.07	19.84		19.83			
32	34 (48,75)	+/-0.07	19.90		19.90			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	20.12		20.13			
35	37 (104,44)	+/-0.07	20.29		20.29			
36	38 (37,42,59)	+/-0.07	20.42		20.42			
37	39 (41,64,71,72)	+/-0.07	20.77		20.77			
38	41 (68,96)	+/-0.07	20.93		20.93			
39	42 (40)	+/-0.07	21.03		21.03			
40	43 (57,103)	+/-0.07	21.28		21.28			
41	44 (58,67,100)	+/-0.07	21.46		21.46			
42	45 (63)	+/-0.07	21.62		21.62			
43	46 (74,94,61)	+/-0.07	21.79		21.79			
44	47 (70)	+/-0.07	21.92		21.92			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	22.04		22.04			
46	49 (55,91,121)	+/-0.07	22.33		22.33			
47	50 (56,60)	+/-0.07	22.65		22.65			
48	51 (84,92,155)	+/-0.07	22.88		22.88			
49	52 (89)	+/-0.07	22.99		22.98			
50	53 (90,101)	+/-0.07	23.14		23.14			
51	54 (79,99,113)	+/-0.07	23.34		23.34			
52	55 (119,150)	+/-0.07	23.63		23.61			
53	56 (78,83,112,108)	+/-0.07	23.71		23.71			
54	57 (97,152,86)	+/-0.07	23.93		23.92			
55	58 (81,87,117,125,115,145)	+/-0.07	24.10		24.10			
56	59 (116,85,111)	+/-0.07	24.26		24.25			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS1022A	CCCS1022A File ID: GC16-827-2		CCCS1022B File ID: GC16-827-10		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	24.37		24.37			
58	61 (77,110,148)	+/-0.07	24.51		24.51			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.88		24.87			
61	64 (151)	+/-0.07	25.17		25.17			
62	65 (124,135)	+/-0.07	25.31		25.30			
63	66 (144)	+/-0.07	25.37		25.37			
64	67 (107,109,147)	+/-0.07	25.43		25.43			
65	68 (123)	+/-0.07	25.53		25.53			
66	69 (106,118,139,149)	+/-0.07	25.62		25.62			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	26.03		26.02			
69	72 (122,131,133,142)	+/-0.07	26.23		26.22			
70	73 (146,165,188)	+/-0.07	26.53		26.52			
71	74 (105,132,161)	+/-0.07	26.66		26.66			
72	75 (153)	+/-0.07	26.82		26.81			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	27.36		27.35			
75	78 (179)	+/-0.07	27.43		27.42			
76	79 (137)	+/-0.07	27.65		27.67			
77	80 (130,176)	+/-0.07	27.80		27.79			
78	82 (138,163,164)	+/-0.07	28.03		28.02			
79	83 (158,160,186)	+/-0.07	28.21		28.21			
80	84 (126,129)	+/-0.07	28.42		28.42			
81	85 (166,178)	+/-0.07	28.77		28.76			
82	87 (175,159)	+/-0.07	29.07		29.07			
83	88 (182,187)	+/-0.07	29.23		29.22			
84	89 (128,162)	+/-0.07	29.35		29.34			
85	90 (183)	+/-0.07	29.54		29.53			
86	91 (167)	+/-0.07	29.81		29.81			
87	92 (185)	+/-0.07	30.15		30.15			
88	93 (174,181)	+/-0.07	30.53		30.52			
89	94 (177)	+/-0.07	30.81		30.80			
90	95 (156,171)	+/-0.07	31.12		31.11			
91	96 (157,202)	+/-0.07	31.38		31.37			
92	98 (173)	+/-0.07	31.54		31.54			
93	99 (201)	+/-0.07	31.93		31.92			
94	100 (172,204)	+/-0.07	32.18		32.18			
95	101 (192,197)	+/-0.07	32.48		32.48			
96	102 (180)	+/-0.07	32.67		32.67			
97	103 (193)	+/-0.07	32.93		32.91			
98	104 (191)	+/-0.07	33.24		33.23			
99	105 (200,169)	+/-0.07	33.59		33.59			
100	106 (170)	+/-0.07	34.77		34.76			
101	107 (190)	+/-0.07	35.05		35.04			
102	108 (198)	+/-0.07	35.92		35.90			
103	109 (199)	+/-0.07	36.16		36.15			
104	110 (196,203)	+/-0.07	36.71		36.71			
105	111 (189)	+/-0.07	37.94		37.91			
106	112 (195)	+/-0.07	39.49		39.48			
107	113 (208)	+/-0.07	40.03		40.01			
108	114 (207)	+/-0.07	40.98		40.98			
109	115 (194)	+/-0.07	42.42		42.41			
110	116 (205)	+/-0.07	43.35		43.32			
111	117 (206)	+/-0.07	48.56		48.55			
112	118 (209)	+/-0.07	54.74		54.74			

# Standards Summary Tables (GC-24)



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Set Name: GC24\_CC\_090509  
Project Name: GC24\_Mar\_2009  
Sample Set Start Date: 9/5/2009 2:45:04 AM EDT  
Current Date: 9/18/2009  
Report Name: CSGB\_SumRpt\_OCNArea

**ICAL OCN Area Summary Report**

	Sample Name	Sample ID	Date Acquired	OCN Area
1	ICAL0905A	ICAL 6.25 ng/mL	9/5/2009 5:01:29 AM EDT	174096
2	ICAL0905B	ICAL 12.5 ng/mL	9/5/2009 6:06:56 AM EDT	174435
3	ICAL0905C	ICAL 125 ng/mL	9/5/2009 7:12:23 AM EDT	160555
4	ICAL0905D	ICAL 314 ng/mL	9/5/2009 8:17:51 AM EDT	175915
5	ICAL0905E	ICAL 627 ng/mL	9/5/2009 9:23:21 AM EDT	173433
Mean				171687



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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System Name:	Instrument_24	Date Calibrated:	9/12/2009 3:19:39 PM EDT
Sample Set Name:	GC24_CC_090509	Method Report:	CSGB CCSum by RF
Sample Set Date:	9/5/2009 2:45:04 AM EDT	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509		

**Calibration Component Summary Table  
Component Summary For RF**

	Sample Name	2 (1)	3 (2)	4 (3)	5 (4,10)	6 (7,9)	7 (6)	8 (5,8)	9 (14)	10 (19)	11 (30)	12 (11)
1	ICAL0905A	0.025569		0.010102	0.040472	0.453784	0.159906	0.118078				
2	ICAL0905B	0.021466		0.008768	0.056491	0.428990	0.184904	0.114795		0.228956		
3	ICAL0905C	0.023108		0.010355	0.052904	0.378487	0.178973	0.097988		0.285774		
4	ICAL0905D	0.021570		0.011407	0.053125	0.355688	0.169514	0.091267		0.289225		
5	ICAL0905E				0.051459					0.273195		
6	SC0905A		0.002451						0.133518		0.501489	0.057030
Mean		0.023	0.002	0.010	0.051	0.404	0.173	0.106	0.134	0.269	0.501	0.057
Std. Dev.		0.002		0.001	0.006	0.045	0.011	0.013		0.028		
% RSD		8.35		10.68	12.00	11.14	6.33	12.28		10.31		

**Calibration Component Summary Table  
Component Summary For RF**

	13 (12,13)	14 (15,18)	15 (17)	16 (24,27)	17 (16,32)	19 (23,34,54)	20 (29)	21 (26)	22 (25)	23 (31)	24 (28,50)
1		0.304780	0.177111	0.534430	0.276122			0.346934	0.479575	0.475944	0.588608
2	0.250106	0.318385	0.201857	0.408503	0.279453		0.491689	0.342196	0.456559	0.454046	0.564159
3	0.221933	0.281233	0.189829	0.458770	0.264068		0.428643	0.318917	0.443499	0.374251	0.507807
4	0.238235	0.264584	0.169207	0.491513	0.245864		0.407619	0.316625	0.449445	0.369187	0.455761
5				0.447443							
6						0.304293					
Mean	0.237	0.292	0.185	0.468	0.266	0.304	0.443	0.331	0.457	0.418	0.529
Std. Dev.	0.014	0.024	0.014	0.047	0.015		0.044	0.016	0.016	0.055	0.059
% RSD	5.97	8.21	7.78	10.14	5.70		9.88	4.72	3.46	13.06	11.24

**Calibration Component Summary Table  
Component Summary For RF**

	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)	34 (48,75)	35 (62,65)
1	0.384620	0.385273	0.517646		0.297911		0.316137	0.540147	0.971816	0.572753	
2	0.377401	0.355032	0.446600		0.321612		0.325482	0.596100	1.051767	0.622778	
3	0.353874	0.338700	0.381422		0.337993		0.288623	0.570479	0.814897	0.611872	
4	0.340319	0.328576	0.378985		0.332919		0.265534	0.529619	0.741216	0.563862	
5											
6				0.242069		0.231103					0.608916
Mean	0.364	0.352	0.431	0.242	0.323	0.231	0.299	0.559	0.895	0.593	0.609
Std. Dev.	0.021	0.025	0.066		0.018		0.027	0.030	0.142	0.029	

**Calibration Component Summary Table**

**Component Summary For RF**

	25 (20,21,33,53)	26 (22,51)	27 (45)	28 (36)	29 (46)	30 (39)	31 (52,69,73)	32 (43,49)	33 (38,47)	34 (48,75)	35 (62,65)
% RSD	5.65	7.04	15.22		5.53		9.11	5.39	15.87	4.87	

**Calibration Component Summary Table**

**Component Summary For RF**

	36 (35)	37 (104,44)	38 (37,42,59)	39 (41,64,71,72)	41 (68,96)	42 (40)	43 (57,103)	44 (58,67,100)	45 (63)	46 (74,94,61)
1		0.596513	0.388614	0.661969		0.442060			0.595151	0.887465
2		0.591854	0.360980	0.616187		0.448684		0.661124	0.603714	0.931292
3		0.429660	0.375160	0.570982		0.483803		0.595017	0.604322	0.825838
4		0.410598	0.344798	0.532879		0.467420		0.610523	0.603235	0.780757
5										
6	0.232451				0.329906		0.463251			
Mean	0.232	0.507	0.367	0.596	0.330	0.460	0.463	0.622	0.602	0.856
Std. Dev.		0.101	0.019	0.056		0.019		0.035	0.004	0.066
% RSD		19.88	5.12	9.38		4.10		5.56	0.72	7.75

**Calibration Component Summary Table**

**Component Summary For RF**

	47 (70)	48 (66,76,98,80,93,95,102,88)	49 (55,91,121)	50 (56,60)	51 (84,92,155)	52 (89)	53 (90,101)	54 (79,99,113)	
1	0.778148		0.530585	0.392016	0.758692	0.332716		0.696036	0.883810
2	0.778764		0.523424	0.457108	0.736834	0.277144	0.540534	0.679344	0.929468
3	0.677720		0.458434	0.520488	0.677229	0.271733	0.528638	0.582795	0.895937
4	0.622526		0.420500	0.533713	0.640370	0.253954	0.537245	0.535419	0.839469
5									
6									
Mean	0.714		0.483	0.476	0.703	0.284	0.535	0.623	0.887
Std. Dev.	0.077		0.053	0.065	0.054	0.034	0.006	0.077	0.037
% RSD	10.84		10.96	13.68	7.72	11.99	1.15	12.35	4.19

**Calibration Component Summary Table**

**Component Summary For RF**

	55 (119,150)	56 (78,83,112,108)	57 (97,152,86)	58 (81,87,117,125,115,145)	59 (116,85,111)	60 (120,136)	61 (77,110,148)	
1			0.781065		0.704172	0.711822	0.433030	0.657727
2	1.028846	0.459555	0.653509		0.605329	0.778595	0.406826	0.649250
3	1.062946	0.454932	0.756591		0.650077	0.777385	0.458784	0.640450
4	1.312314	0.509624	0.716784		0.586103	0.760743	0.431303	0.599532
5								
6								
Mean	1.135	0.475	0.727		0.636	0.757	0.432	0.637
Std. Dev.	0.155	0.030	0.056		0.053	0.031	0.021	0.026
% RSD	13.64	6.39	7.66		8.25	4.13	4.91	4.05

**Calibration Component Summary Table**

**Component Summary For RF**

	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)	69 (106,118,139,149)	70 (140)
1		0.967847	0.721703	0.819231	0.379426			0.811535	
2		0.860089	0.710590	1.082213	0.404982	0.600115		0.850635	

**Calibration Component Summary Table**

**Component Summary For RF**

	62 (154)	63 (82)	64 (151)	65 (124,135)	66 (144)	67 (107,109,147)	68 (123)	69 (106,118,139,149)	70 (140)
3		0.792043	0.631216	1.013167	0.417718	0.553335		0.718080	
4		0.728780	0.591776	0.988978	0.404397	0.637067		0.654409	
5									
6	0.547924						0.633456		0.645169
Mean	0.548	0.837	0.664	0.976	0.402	0.597	0.633	0.759	0.645
Std. Dev.		0.102	0.063	0.112	0.016	0.042		0.089	
% RSD		12.22	9.44	11.44	3.99	7.03		11.73	

**Calibration Component Summary Table**

**Component Summary For RF**

	71 (114,134,143)	72 (122,131,133,142)	73 (146,165,188)	74 (105,132,161)	75 (153)	76 (127,168,184)	77 (141)	78 (179)
1	0.711167		0.872718	0.943815	1.001140		0.574647	0.883157
2	0.603808	1.342899	0.707060	0.937875	1.019248		0.539479	0.797252
3	0.657953	0.948089	0.759780	0.914564	0.890566		0.523307	0.698046
4	0.662912	1.060512	0.717144	0.865106	0.794931		0.495873	0.616298
5								
6						0.554248		
Mean	0.659	1.117	0.764	0.915	0.926	0.554	0.533	0.749
Std. Dev.	0.044	0.203	0.076	0.036	0.105		0.033	0.116
% RSD	6.66	18.21	9.93	3.91	11.28		6.17	15.53

**Calibration Component Summary Table**

**Component Summary For RF**

	79 (137)	80 (130,176)	82 (138,163,164)	83 (158,160,186)	84 (126,129)	85 (166,178)	87 (175,159)	88 (182,187)	89 (128,162)
1		1.326009	0.968253	0.976076		0.514119		0.988544	
2	0.754952	1.387807	0.933570	0.659597	2.208340	0.486767	0.396278	0.958836	1.405179
3	0.684324	1.462045	0.819064	0.919256	1.995557	0.439645	0.461927	0.800313	1.353594
4	0.562287	1.325956	0.752744	0.877758	2.111957	0.409011	0.464309	0.729096	1.207982
5									
6									
Mean	0.667	1.375	0.868	0.858	2.105	0.462	0.441	0.869	1.322
Std. Dev.	0.097	0.065	0.100	0.138	0.107	0.047	0.039	0.125	0.102
% RSD	14.61	4.70	11.52	16.13	5.06	10.17	8.76	14.35	7.73

**Calibration Component Summary Table**

**Component Summary For RF**

	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)	98 (173)	99 (201)	100 (172,204)
1	0.820158		1.073326	1.051849	0.948964	0.757672	4.573081		0.836681	0.486343
2	0.810613	0.550457	1.113177	0.900951	0.790533	0.717422	5.155113	0.850962	0.725599	0.702080
3	0.780816	0.611216	1.129074	0.778793	0.701796	0.734305	5.373261	0.829099	0.719811	0.679006
4	0.725598	0.715139	1.084920	0.725804	0.659618	0.724927	5.284116	1.024078	0.683179	0.667116
5										
6										
Mean	0.784	0.626	1.100	0.864	0.775	0.734	5.096	0.901	0.741	0.634
Std. Dev.	0.043	0.083	0.026	0.145	0.128	0.017	0.360	0.107	0.066	0.099

**Calibration Component Summary Table**

**Component Summary For RF**

	90 (183)	91 (167)	92 (185)	93 (174,181)	94 (177)	95 (156,171)	96 (157,202)	98 (173)	99 (201)	100 (172,204)
% RSD	5.43	13.31	2.32	16.77	16.52	2.38	7.07	11.85	8.94	15.67

**Calibration Component Summary Table**

**Component Summary For RF**

	101 (192,197)	102 (180)	103 (193)	104 (191)	105 (200,169)	106 (170)	107 (190)	108 (198)	109 (199)	110 (196,203)	111 (189)
1		1.185172	0.778985		0.942281	1.691920	1.278822		0.621500	0.717371	
2	0.639871	1.122133	0.744579	0.541056	0.852933	1.774319	1.358312	1.318045	0.629518	0.710726	1.056137
3	0.588133	0.923145	0.798001	0.716184	0.807111	1.434624	1.271034	1.271500	0.562202	0.608427	1.060327
4	0.623781	0.837233	0.767223	0.742400	0.802791	1.340599	1.198131	1.113500	0.513124	0.565648	1.167741
5											
6											
Mean	0.617	1.017	0.772	0.667	0.851	1.560	1.277	1.234	0.582	0.651	1.095
Std. Dev.	0.026	0.164	0.022	0.109	0.065	0.206	0.065	0.107	0.055	0.075	0.063
% RSD	4.29	16.10	2.90	16.42	7.61	13.20	5.13	8.69	9.39	11.59	5.78

**Calibration Component Summary Table**

**Component Summary For RF**

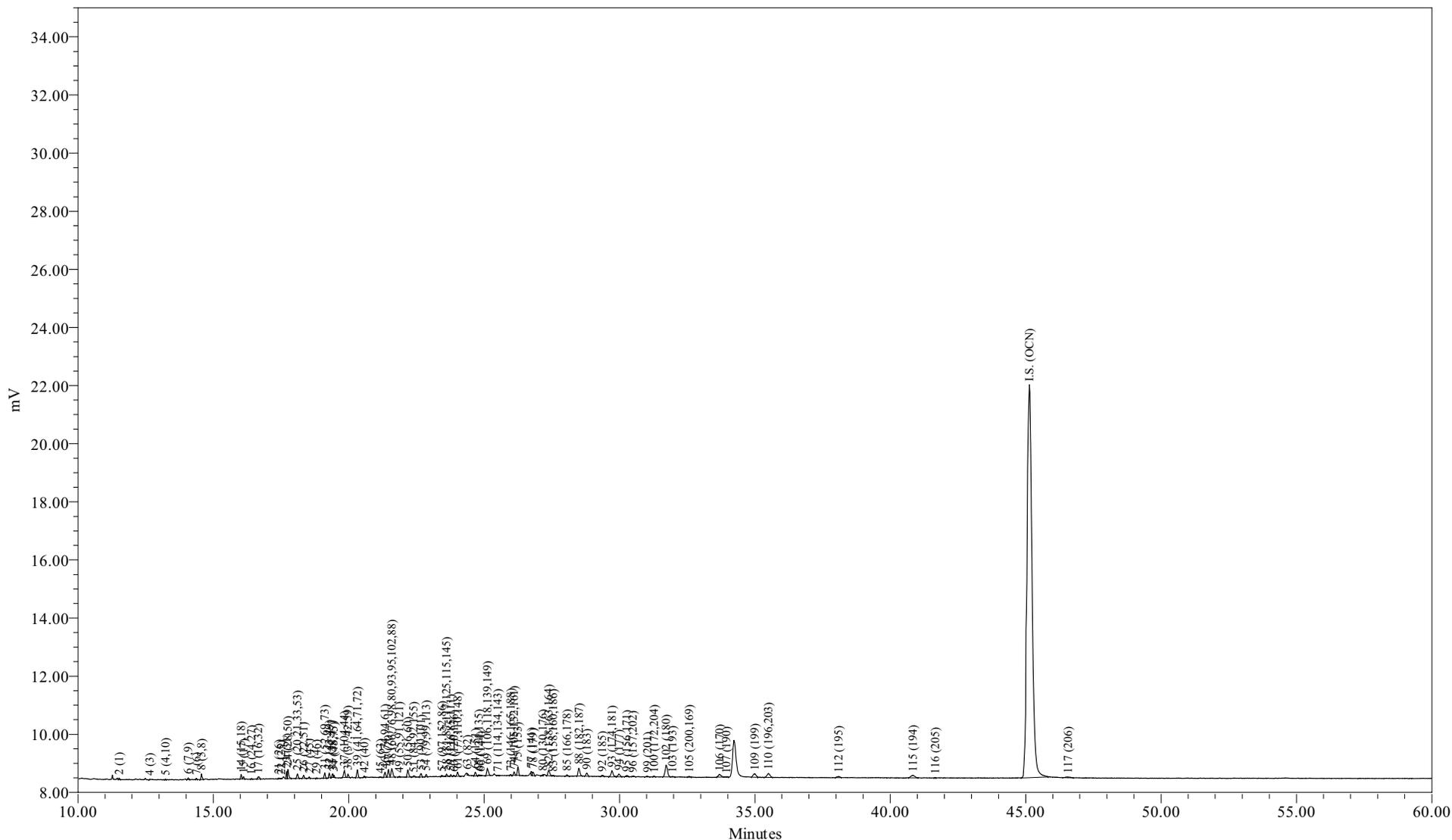
	112 (195)	113 (208)	114 (207)	115 (194)	116 (205)	117 (206)	118 (209)
1	1.567269			1.452409	0.923063	1.211851	
2	1.512664	0.568471	1.312363	1.424863	0.920296	1.404364	1.246800
3	1.689191	0.625344	1.166917	1.338972	0.946775	1.256191	1.317078
4	1.593227	0.611808	1.158538	1.272350	0.990884	1.255595	1.087888
5							
6							
Mean	1.591	0.602	1.213	1.372	0.945	1.282	1.217
Std. Dev.	0.074	0.030	0.086	0.082	0.033	0.084	0.117
% RSD	4.64	4.94	7.13	5.99	3.46	6.57	9.65



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Sample Name: ICAL0905A  
 Sample ID: ICAL 6.25 ng/mL  
 Date Acquired: 9/5/2009 5:01:29 AM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB LL1X\_090509  
 LIMS File ID: GC24-163-3



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name:	ICAL0905A	Sample Amount:	1
Sample ID:	ICAL 6.25 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 5:01:29 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/12/2009 3:19:06 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:54:12 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-3

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.518	107	0.439	0.439	0.025569
2	3 (2)	12.517				
3	4 (3)	12.655	25	0.256	0.256	0.010102
4	5 (4,10)	13.238	48	0.124	0.124	0.040472
5	6 (7,9)	14.074	191	0.044	0.044	0.453784
6	7 (6)	14.380	106	0.069	0.069	0.159906
7	8 (5,8)	14.563	579	0.512	0.512	0.118078
8	9 (14)	15.113				
9	10 (19)	15.177				
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.921				
13	14 (15,18)	16.027	395	0.135	0.135	0.304780
14	15 (17)	16.115	229	0.135	0.135	0.177111
15	16 (24,27)	16.414	49	0.009	0.009	0.534430
16	17 (16,32)	16.660	377	0.143	0.143	0.276122
17	19 (23,34,54)	17.114				
18	20 (29)	17.294				
19	21 (26)	17.422	87	0.026	0.026	0.346934
20	22 (25)	17.511	54	0.012	0.012	0.479575
21	23 (31)	17.712	687	0.151	0.151	0.475944
22	24 (28,50)	17.756	1087	0.193	0.193	0.588608
23	25 (20,21,33,53)	18.109	535	0.145	0.145	0.384620
24	26 (22,51)	18.336	391	0.106	0.106	0.385273
25	27 (45)	18.548	161	0.033	0.033	0.517646
26	28 (36)	18.694				
27	29 (46)	18.813	42	0.015	0.015	0.297911
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.115	528	0.174	0.174	0.316137
30	32 (43,49)	19.281	435	0.084	0.084	0.540147
31	33 (38,47)	19.408	340	0.037	0.037	0.971816
32	34 (48,75)	19.450	200	0.037	0.037	0.572753
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.842	898	0.157	0.157	0.596513
36	38 (37,42,59)	19.971	354	0.095	0.095	0.388614
37	39 (41,64,71,72)	20.317	950	0.150	0.150	0.661969
38	41 (68,96)	20.471				
39	42 (40)	20.579	145	0.034	0.034	0.442060
40	43 (57,103)	20.825				
41	44 (58,67,100)	21.006				
42	45 (63)	21.177	44	0.008	0.008	0.595151
43	46 (74,94,61)	21.340	590	0.069	0.069	0.887465
44	47 (70)	21.470	926	0.124	0.124	0.778148
45	48 (66,76,98,80,93,95,102,88)	21.590	1337	0.263	0.263	0.530585
46	49 (55,91,121)	21.868	70	0.019	0.019	0.392016
47	50 (56,60)	22.186	929	0.128	0.128	0.758692
48	51 (84,92,155)	22.399	210	0.066	0.066	0.332716
49	52 (89)	22.507				
50	53 (90,101)	22.677	438	0.066	0.066	0.696036
51	54 (79,99,113)	22.864	229	0.027	0.027	0.883810
52	55 (119,150)	23.134				
53	56 (78,83,112,108)	23.229				
54	57 (97,152,86)	23.442	153	0.020	0.020	0.781065
55	58 (81,87,117,125,115,145)	23.617	286	0.042	0.042	0.704172
56	59 (116,85,111)	23.769	174	0.026	0.026	0.711822
57	60 (120,136)	23.889	114	0.027	0.027	0.433030
58	61 (77,110,148)	24.024	490	0.078	0.078	0.657727
59	62 (154)	24.292				
60	63 (82)	24.376	149	0.016	0.016	0.967847
61	64 (151)	24.678	429	0.062	0.062	0.721703
62	65 (124,135)	24.810	83	0.011	0.011	0.819231
63	66 (144)	24.874	80	0.022	0.022	0.379426
64	67 (107,109,147)	24.951				
65	68 (123)	25.036				
66	69 (106,118,139,149)	25.119	1136	0.146	0.146	0.811535
67	70 (140)	25.235				
68	71 (114,134,143)	25.507	50	0.007	0.007	0.711167
69	72 (122,131,133,142)	25.713				
70	73 (146,165,188)	25.985	119	0.014	0.014	0.872718

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.108	448	0.050	0.050	0.943815
72	75 (153)	26.253	1032	0.108	0.108	1.001140
73	76 (127,168,184)	26.366				
74	77 (141)	26.742	342	0.062	0.062	0.574647
75	78 (179)	26.810	451	0.053	0.053	0.883157
76	79 (137)	27.020				
77	80 (130,176)	27.171	121	0.009	0.009	1.326009
78	82 (138,163,164)	27.382	915	0.099	0.099	0.968253
79	83 (158,160,186)	27.553	85	0.009	0.009	0.976076
80	84 (126,129)	27.736				
81	85 (166,178)	28.062	198	0.040	0.040	0.514119
82	87 (175,159)	28.360				
83	88 (182,187)	28.503	1246	0.132	0.132	0.988544
84	89 (128,162)	28.621				
85	90 (183)	28.799	488	0.062	0.062	0.820158
86	91 (167)	29.046				
87	92 (185)	29.359	177	0.017	0.017	1.073326
88	93 (174,181)	29.721	1178	0.117	0.117	1.051849
89	94 (177)	29.974	565	0.062	0.062	0.948964
90	95 (156,171)	30.269	210	0.029	0.029	0.757672
91	96 (157,202)	30.494	106	0.002	0.002	4.573081
92	98 (173)	30.680				
93	99 (201)	31.034	114	0.014	0.014	0.836681
94	100 (172,204)	31.279	95	0.020	0.020	0.486343
95	101 (192,197)	31.542				
96	102 (180)	31.729	2530	0.223	0.223	1.185172
97	103 (193)	31.958	115	0.015	0.015	0.778985
98	104 (191)	32.250				
99	105 (200,169)	32.579	142	0.016	0.016	0.942281
100	106 (170)	33.695	758	0.047	0.047	1.691920
101	107 (190)	33.953	188	0.015	0.015	1.278822
102	108 (198)	34.755				
103	109 (199)	34.995	914	0.154	0.154	0.621500
104	110 (196,203)	35.498	1080	0.157	0.157	0.717371
105	111 (189)	36.642				
106	112 (195)	38.095	303	0.020	0.020	1.567269
107	113 (208)	38.594				
108	114 (207)	39.486				
109	115 (194)	40.837	915	0.066	0.066	1.452409
110	116 (205)	41.665	36	0.004	0.004	0.923063
111	I.S. (OCN)	45.143	174096	18.180	18.180	9576.225943
112	117 (206)	46.566	288	0.025	0.025	1.211851

**Peak Results**

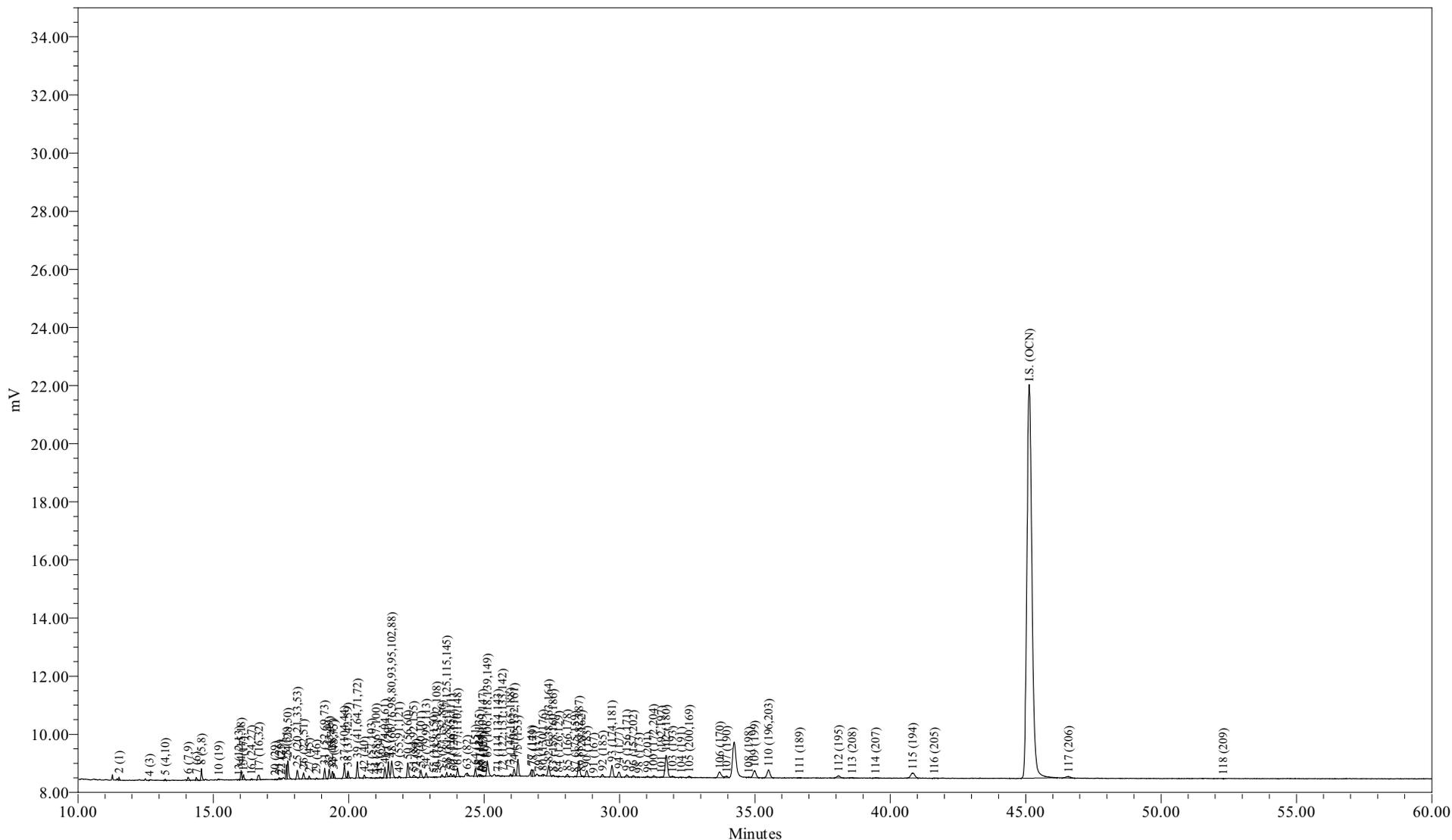
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.297				



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Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: ICAL0905B  
Sample ID: ICAL 12.5 ng/mL  
Date Acquired: 9/5/2009 6:06:56 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-4



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name:	ICAL0905B	Sample Amount:	1
Sample ID:	ICAL 12.5 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 6:06:56 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/12/2009 3:19:19 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:17 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-4

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.519	181	0.877	0.877	0.021466
2	3 (2)	12.517				
3	4 (3)	12.650	43	0.512	0.512	0.008768
4	5 (4,10)	13.224	135	0.249	0.249	0.056491
5	6 (7,9)	14.071	361	0.088	0.088	0.428990
6	7 (6)	14.375	246	0.139	0.139	0.184904
7	8 (5,8)	14.563	1127	1.023	1.023	0.114795
8	9 (14)	15.113				
9	10 (19)	15.203	45	0.020	0.020	0.228956
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.942	47	0.020	0.020	0.250106
13	14 (15,18)	16.027	826	0.270	0.270	0.318385
14	15 (17)	16.114	524	0.270	0.270	0.201857
15	16 (24,27)	16.409	74	0.019	0.019	0.408503
16	17 (16,32)	16.685	764	0.285	0.285	0.279453
17	19 (23,34,54)	17.114				
18	20 (29)	17.277	18	0.004	0.004	0.491689
19	21 (26)	17.435	173	0.053	0.053	0.342196
20	22 (25)	17.514	102	0.023	0.023	0.456559
21	23 (31)	17.705	1313	0.301	0.301	0.454046
22	24 (28,50)	17.754	2088	0.386	0.386	0.564159
23	25 (20,21,33,53)	18.104	1051	0.290	0.290	0.377401
24	26 (22,51)	18.335	722	0.212	0.212	0.355032
25	27 (45)	18.543	279	0.065	0.065	0.446600
26	28 (36)	18.694				
27	29 (46)	18.806	90	0.029	0.029	0.321612
28	30 (39)	18.958				

**Peak Results**

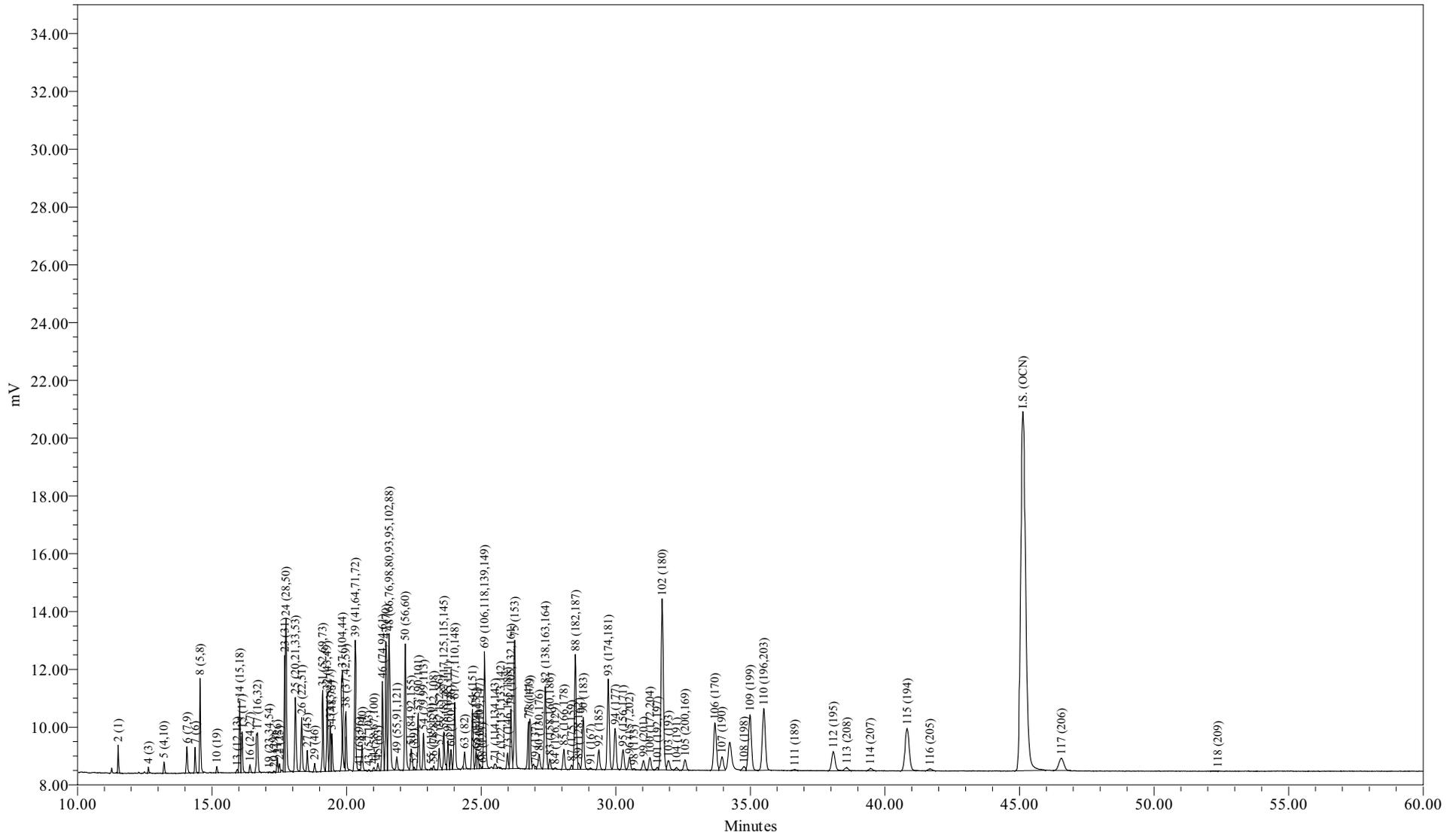
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.111	1089	0.349	0.349	0.325482
30	32 (43,49)	19.280	962	0.168	0.168	0.596100
31	33 (38,47)	19.401	738	0.073	0.073	1.051767
32	34 (48,75)	19.450	437	0.073	0.073	0.622778
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.841	1785	0.314	0.314	0.591854
36	38 (37,42,59)	19.973	658	0.190	0.190	0.360980
37	39 (41,64,71,72)	20.317	1772	0.300	0.300	0.616187
38	41 (68,96)	20.471				
39	42 (40)	20.576	296	0.069	0.069	0.448684
40	43 (57,103)	20.837	13			
41	44 (58,67,100)	21.012	51	0.008	0.008	0.661124
42	45 (63)	21.157	89	0.015	0.015	0.603714
43	46 (74,94,61)	21.335	1241	0.139	0.139	0.931292
44	47 (70)	21.466	1857	0.249	0.249	0.778764
45	48 (66,76,98,80,93,95,102,88)	21.585	2643	0.526	0.526	0.523424
46	49 (55,91,121)	21.860	164	0.037	0.037	0.457108
47	50 (56,60)	22.186	1809	0.256	0.256	0.736834
48	51 (84,92,155)	22.401	350	0.132	0.132	0.277144
49	52 (89)	22.487	38	0.007	0.007	0.540534
50	53 (90,101)	22.668	858	0.132	0.132	0.679344
51	54 (79,99,113)	22.861	482	0.054	0.054	0.929468
52	55 (119,150)	23.146	20	0.002	0.002	1.028846
53	56 (78,83,112,108)	23.248	48	0.011	0.011	0.459555
54	57 (97,152,86)	23.451	257	0.041	0.041	0.653509
55	58 (81,87,117,125,115,145)	23.620	492	0.085	0.085	0.605329
56	59 (116,85,111)	23.770	382	0.051	0.051	0.778595
57	60 (120,136)	23.875	214	0.055	0.055	0.406826
58	61 (77,110,148)	24.023	970	0.156	0.156	0.649250
59	62 (154)	24.292				
60	63 (82)	24.374	265	0.032	0.032	0.860089
61	64 (151)	24.678	847	0.124	0.124	0.710590
62	65 (124,135)	24.815	220	0.021	0.021	1.082213
63	66 (144)	24.876	170	0.044	0.044	0.404982
64	67 (107,109,147)	24.951	55	0.009	0.009	0.600115
65	68 (123)	24.975	39			
66	69 (106,118,139,149)	25.120	2386	0.292	0.292	0.850635
67	70 (140)	25.235				
68	71 (114,134,143)	25.499	86	0.015	0.015	0.603808
69	72 (122,131,133,142)	25.680	27	0.002	0.002	1.342899
70	73 (146,165,188)	25.977	193	0.029	0.029	0.707060

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.111	891	0.099	0.099	0.937875
72	75 (153)	26.252	2105	0.215	0.215	1.019248
73	76 (127,168,184)	26.366				
74	77 (141)	26.755	643	0.124	0.124	0.539479
75	78 (179)	26.811	816	0.107	0.107	0.797252
76	79 (137)	27.024	40	0.005	0.005	0.754952
77	80 (130,176)	27.175	253	0.019	0.019	1.387807
78	82 (138,163,164)	27.389	1768	0.197	0.197	0.933570
79	83 (158,160,186)	27.555	116	0.018	0.018	0.659597
80	84 (126,129)	27.757	20	0.001	0.001	2.208340
81	85 (166,178)	28.074	375	0.080	0.080	0.486767
82	87 (175,159)	28.353	56	0.015	0.015	0.396278
83	88 (182,187)	28.506	2421	0.263	0.263	0.958836
84	89 (128,162)	28.601	99	0.007	0.007	1.405179
85	90 (183)	28.794	966	0.124	0.124	0.810613
86	91 (167)	29.049	19	0.004	0.004	0.550457
87	92 (185)	29.376	367	0.034	0.034	1.113177
88	93 (174,181)	29.720	2022	0.234	0.234	0.900951
89	94 (177)	29.975	943	0.124	0.124	0.790533
90	95 (156,171)	30.263	398	0.058	0.058	0.717422
91	96 (157,202)	30.505	239	0.005	0.005	5.155113
92	98 (173)	30.705	23	0.003	0.003	0.850962
93	99 (201)	31.040	199	0.029	0.029	0.725599
94	100 (172,204)	31.259	276	0.041	0.041	0.702080
95	101 (192,197)	31.548	49	0.008	0.008	0.639871
96	102 (180)	31.728	4801	0.446	0.446	1.122133
97	103 (193)	31.951	219	0.031	0.031	0.744579
98	104 (191)	32.275	46	0.009	0.009	0.541056
99	105 (200,169)	32.576	257	0.031	0.031	0.852933
100	106 (170)	33.706	1593	0.094	0.094	1.774319
101	107 (190)	33.962	400	0.031	0.031	1.358312
102	108 (198)	34.774	111	0.009	0.009	1.318045
103	109 (199)	34.983	1854	0.307	0.307	0.629518
104	110 (196,203)	35.503	2143	0.314	0.314	0.710726
105	111 (189)	36.653	30	0.003	0.003	1.056137
106	112 (195)	38.091	587	0.040	0.040	1.512664
107	113 (208)	38.600	98	0.018	0.018	0.568471
108	114 (207)	39.461	86	0.007	0.007	1.312363
109	115 (194)	40.829	1799	0.132	0.132	1.424863
110	116 (205)	41.631	71	0.008	0.008	0.920296
111	I.S. (OCN)	45.134	174435	18.180	18.180	9594.894062
112	117 (206)	46.584	670	0.050	0.050	1.404364

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.291	11	0.001	0.001	1.246800



Sample Name: ICAL0905C  
Sample ID: ICAL 125 ng/mL  
Date Acquired: 9/5/2009 7:12:23 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-5



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name:	ICAL0905C	Sample Amount:	1
Sample ID:	ICAL 125 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 7:12:23 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/12/2009 3:19:26 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:24 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-5

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.515	1790	8.771	8.771	0.023108
2	3 (2)	12.517				
3	4 (3)	12.633	468	5.117	5.117	0.010355
4	5 (4,10)	13.214	1161	2.485	2.485	0.052904
5	6 (7,9)	14.069	2932	0.877	0.877	0.378487
6	7 (6)	14.372	2195	1.389	1.389	0.178973
7	8 (5,8)	14.557	8856	10.233	10.233	0.097988
8	9 (14)	15.113				
9	10 (19)	15.178	517	0.205	0.205	0.285774
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.936	382	0.195	0.195	0.221933
13	14 (15,18)	16.026	6717	2.704	2.704	0.281233
14	15 (17)	16.112	4534	2.704	2.704	0.189829
15	16 (24,27)	16.410	770	0.190	0.190	0.458770
16	17 (16,32)	16.687	6648	2.851	2.851	0.264068
17	19 (23,34,54)	17.122	84			
18	20 (29)	17.296	147	0.039	0.039	0.428643
19	21 (26)	17.426	1482	0.526	0.526	0.318917
20	22 (25)	17.506	916	0.234	0.234	0.443499
21	23 (31)	17.700	9961	3.014	3.014	0.374251
22	24 (28,50)	17.748	17298	3.857	3.857	0.507807
23	25 (20,21,33,53)	18.098	9073	2.903	2.903	0.353874
24	26 (22,51)	18.330	6341	2.120	2.120	0.338700
25	27 (45)	18.542	2191	0.650	0.650	0.381422
26	28 (36)	18.694				
27	29 (46)	18.815	873	0.292	0.292	0.337993
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.112	8887	3.487	3.487	0.288623
30	32 (43,49)	19.279	8470	1.681	1.681	0.570479
31	33 (38,47)	19.393	5261	0.731	0.731	0.814897
32	34 (48,75)	19.453	3950	0.731	0.731	0.611872
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.842	11927	3.143	3.143	0.429660
36	38 (37,42,59)	19.973	6297	1.901	1.901	0.375160
37	39 (41,64,71,72)	20.317	15112	2.997	2.997	0.570982
38	41 (68,96)	20.474	177			
39	42 (40)	20.576	2936	0.687	0.687	0.483803
40	43 (57,103)	20.822	165			
41	44 (58,67,100)	21.014	422	0.080	0.080	0.595017
42	45 (63)	21.164	819	0.154	0.154	0.604322
43	46 (74,94,61)	21.332	10129	1.389	1.389	0.825838
44	47 (70)	21.461	14874	2.485	2.485	0.677720
45	48 (66,76,98,80,93,95,102,88)	21.579	21307	5.263	5.263	0.458434
46	49 (55,91,121)	21.867	1714	0.373	0.373	0.520488
47	50 (56,60)	22.180	15301	2.558	2.558	0.677229
48	51 (84,92,155)	22.400	3157	1.316	1.316	0.271733
49	52 (89)	22.502	341	0.073	0.073	0.528638
50	53 (90,101)	22.668	6772	1.316	1.316	0.582795
51	54 (79,99,113)	22.860	4280	0.541	0.541	0.895937
52	55 (119,150)	23.138	192	0.020	0.020	1.062946
53	56 (78,83,112,108)	23.234	440	0.110	0.110	0.454932
54	57 (97,152,86)	23.442	2735	0.409	0.409	0.756591
55	58 (81,87,117,125,115,145)	23.617	4868	0.848	0.848	0.650077
56	59 (116,85,111)	23.769	3513	0.512	0.512	0.777385
57	60 (120,136)	23.882	2221	0.548	0.548	0.458784
58	61 (77,110,148)	24.020	8806	1.557	1.557	0.640450
59	62 (154)	24.292				
60	63 (82)	24.386	2249	0.322	0.322	0.792043
61	64 (151)	24.678	6927	1.243	1.243	0.631216
62	65 (124,135)	24.812	1897	0.212	0.212	1.013167
63	66 (144)	24.874	1618	0.439	0.439	0.417718
64	67 (107,109,147)	24.950	464	0.095	0.095	0.553335
65	68 (123)	25.047	108			
66	69 (106,118,139,149)	25.122	18542	2.924	2.924	0.718080
67	70 (140)	25.235				
68	71 (114,134,143)	25.510	858	0.148	0.148	0.657953
69	72 (122,131,133,142)	25.726	178	0.021	0.021	0.948089
70	73 (146,165,188)	25.983	1913	0.285	0.285	0.759780

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.106	7999	0.990	0.990	0.914564
72	75 (153)	26.249	16931	2.153	2.153	0.890566
73	76 (127,168,184)	26.366				
74	77 (141)	26.759	5743	1.243	1.243	0.523307
75	78 (179)	26.810	6579	1.067	1.067	0.698046
76	79 (137)	27.017	331	0.055	0.055	0.684324
77	80 (130,176)	27.157	2453	0.190	0.190	1.462045
78	82 (138,163,164)	27.380	14276	1.974	1.974	0.819064
79	83 (158,160,186)	27.555	1483	0.183	0.183	0.919256
80	84 (126,129)	27.753	167	0.009	0.009	1.995557
81	85 (166,178)	28.073	3122	0.804	0.804	0.439645
82	87 (175,159)	28.357	596	0.146	0.146	0.461927
83	88 (182,187)	28.501	18598	2.631	2.631	0.800313
84	89 (128,162)	28.617	874	0.073	0.073	1.353594
85	90 (183)	28.792	8569	1.243	1.243	0.780816
86	91 (167)	29.059	194	0.036	0.036	0.611216
87	92 (185)	29.374	3425	0.343	0.343	1.129074
88	93 (174,181)	29.721	16087	2.339	2.339	0.778793
89	94 (177)	29.979	7701	1.243	1.243	0.701796
90	95 (156,171)	30.270	3745	0.578	0.578	0.734305
91	96 (157,202)	30.509	2291	0.048	0.048	5.373261
92	98 (173)	30.677	203	0.028	0.028	0.829099
93	99 (201)	31.031	1813	0.285	0.285	0.719811
94	100 (172,204)	31.270	2454	0.409	0.409	0.679006
95	101 (192,197)	31.544	418	0.080	0.080	0.588133
96	102 (180)	31.729	36351	4.459	4.459	0.923145
97	103 (193)	31.953	2164	0.307	0.307	0.798001
98	104 (191)	32.261	555	0.088	0.088	0.716184
99	105 (200,169)	32.577	2240	0.314	0.314	0.807111
100	106 (170)	33.681	11854	0.936	0.936	1.434624
101	107 (190)	33.948	3446	0.307	0.307	1.271034
102	108 (198)	34.763	985	0.088	0.088	1.271500
103	109 (199)	34.986	15243	3.070	3.070	0.562202
104	110 (196,203)	35.500	16889	3.143	3.143	0.608427
105	111 (189)	36.652	273	0.029	0.029	1.060327
106	112 (195)	38.084	6029	0.404	0.404	1.689191
107	113 (208)	38.581	997	0.180	0.180	0.625344
108	114 (207)	39.458	701	0.068	0.068	1.166917
109	115 (194)	40.826	15558	1.316	1.316	1.338972
110	116 (205)	41.673	672	0.080	0.080	0.946775
111	I.S. (OCN)	45.126	160555	18.180	18.180	8831.424357
112	117 (206)	46.558	5513	0.497	0.497	1.256191

### Peak Results

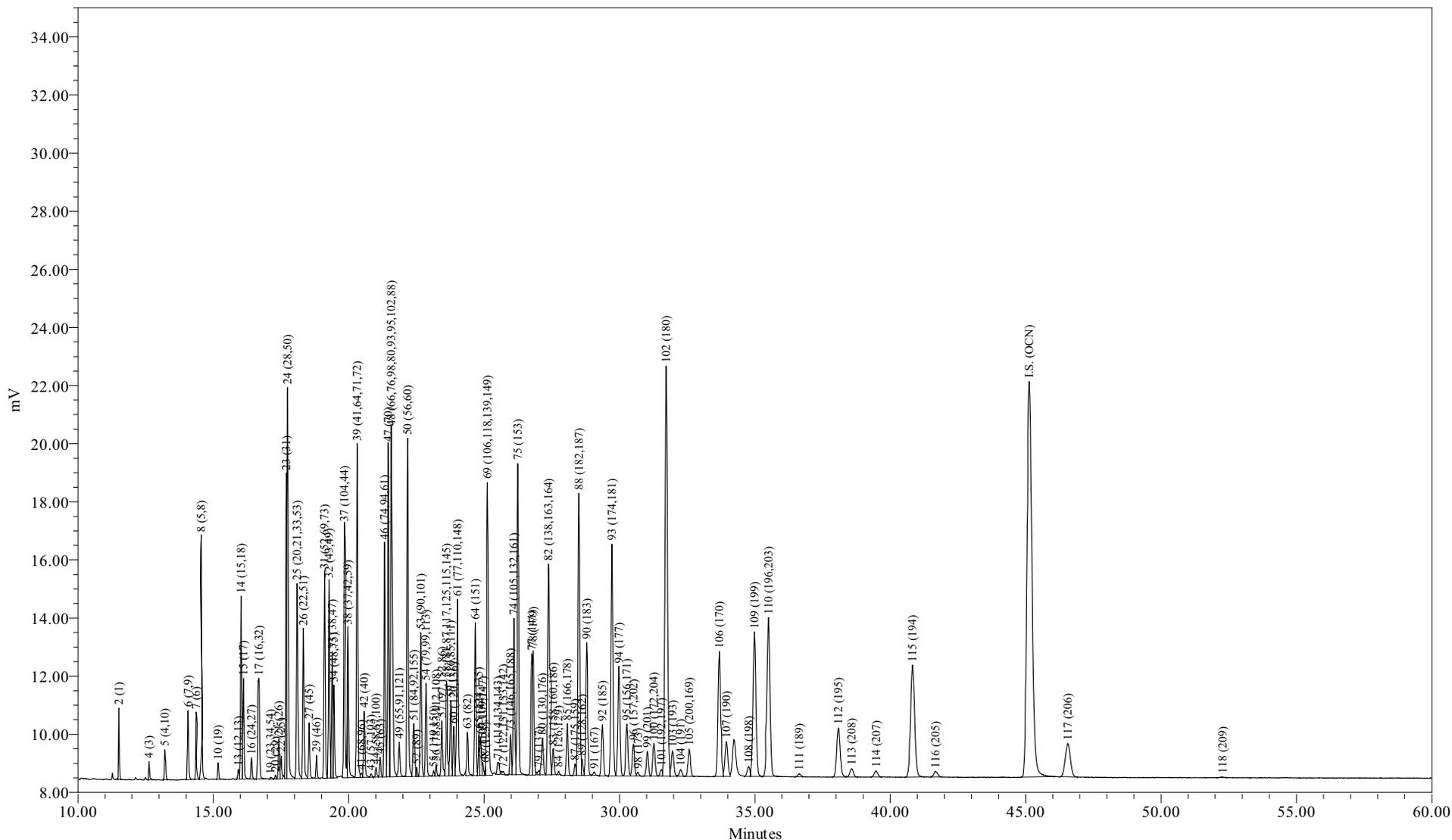
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.373	103	0.009	0.009	1.317078



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Sample Name: ICAL0905D  
Sample ID: ICAL 314 ng/mL  
Date Acquired: 9/5/2009 8:17:51 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-6



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Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: ICAL0905D Sample Amount: 1  
Sample ID: ICAL 314 ng/mL Dilution: 1  
Date Acquired: 9/5/2009 8:17:51 AM EDT Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 9/12/2009 3:19:28 PM EDT  
Sample Set Name: GC24\_CC\_090509 User Name: Amy Jo Arndt (AmyJoA)  
Processing Method: CSGB\_LL1X\_090509 Current Date: 9/18/2009  
Run Time: 60.0 Minutes Current Time: 9:53:31 AM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-163-6

### Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.513	4577	21.928	21.928	0.021570
2	3 (2)	12.517				
3	4 (3)	12.628	1412	12.792	12.792	0.011407
4	5 (4,10)	13.212	3194	6.213	6.213	0.053125
5	6 (7,9)	14.067	7547	2.193	2.193	0.355688
6	7 (6)	14.369	5695	3.472	3.472	0.169514
7	8 (5,8)	14.554	22593	25.583	25.583	0.091267
8	9 (14)	15.113				
9	10 (19)	15.178	1432	0.512	0.512	0.289225
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.925	1124	0.488	0.488	0.238235
13	14 (15,18)	16.025	17310	6.761	6.761	0.264584
14	15 (17)	16.111	11070	6.761	6.761	0.169207
15	16 (24,27)	16.409	2259	0.475	0.475	0.491513
16	17 (16,32)	16.685	16955	7.127	7.127	0.245864
17	19 (23,34,54)	17.114	267			
18	20 (29)	17.299	383	0.097	0.097	0.407619
19	21 (26)	17.421	4031	1.316	1.316	0.316625
20	22 (25)	17.507	2543	0.585	0.585	0.449445
21	23 (31)	17.696	26915	7.534	7.534	0.369187
22	24 (28,50)	17.743	42526	9.643	9.643	0.455761
23	25 (20,21,33,53)	18.094	23902	7.258	7.258	0.340319
24	26 (22,51)	18.325	16850	5.300	5.300	0.328576
25	27 (45)	18.541	5963	1.626	1.626	0.378985
26	28 (36)	18.694				
27	29 (46)	18.814	2355	0.731	0.731	0.332919
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.110	22396	8.716	8.716	0.265534
30	32 (43,49)	19.277	21539	4.203	4.203	0.529619
31	33 (38,47)	19.391	13108	1.828	1.828	0.741216
32	34 (48,75)	19.453	9972	1.828	1.828	0.563862
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.841	31219	7.858	7.858	0.410598
36	38 (37,42,59)	19.969	15852	4.751	4.751	0.344798
37	39 (41,64,71,72)	20.314	38632	7.492	7.492	0.532879
38	41 (68,96)	20.469	575			
39	42 (40)	20.574	7769	1.718	1.718	0.467420
40	43 (57,103)	20.822	426			
41	44 (58,67,100)	21.008	1187	0.201	0.201	0.610523
42	45 (63)	21.162	2240	0.384	0.384	0.603235
43	46 (74,94,61)	21.328	26230	3.472	3.472	0.780757
44	47 (70)	21.457	37425	6.213	6.213	0.622526
45	48 (66,76,98,80,93,95,102,88)	21.573	53534	13.157	13.157	0.420500
46	49 (55,91,121)	21.866	4813	0.932	0.932	0.533713
47	50 (56,60)	22.175	39630	6.396	6.396	0.640370
48	51 (84,92,155)	22.402	8083	3.289	3.289	0.253954
49	52 (89)	22.509	950	0.183	0.183	0.537245
50	53 (90,101)	22.666	17041	3.289	3.289	0.535419
51	54 (79,99,113)	22.859	10984	1.352	1.352	0.839469
52	55 (119,150)	23.138	651	0.051	0.051	1.312314
53	56 (78,83,112,108)	23.230	1351	0.274	0.274	0.509624
54	57 (97,152,86)	23.442	7097	1.023	1.023	0.716784
55	58 (81,87,117,125,115,145)	23.616	12022	2.120	2.120	0.586103
56	59 (116,85,111)	23.769	9417	1.279	1.279	0.760743
57	60 (120,136)	23.881	5720	1.370	1.370	0.431303
58	61 (77,110,148)	24.017	22580	3.892	3.892	0.599532
59	62 (154)	24.292				
60	63 (82)	24.385	5669	0.804	0.804	0.728780
61	64 (151)	24.677	17788	3.106	3.106	0.591776
62	65 (124,135)	24.810	5072	0.530	0.530	0.988978
63	66 (144)	24.875	4291	1.097	1.097	0.404397
64	67 (107,109,147)	24.951	1464	0.237	0.237	0.637067
65	68 (123)	25.048	438			
66	69 (106,118,139,149)	25.121	46285	7.309	7.309	0.654409
67	70 (140)	25.235				
68	71 (114,134,143)	25.511	2367	0.369	0.369	0.662912
69	72 (122,131,133,142)	25.707	546	0.053	0.053	1.060512
70	73 (146,165,188)	25.978	4946	0.713	0.713	0.717144

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.104	20726	2.476	2.476	0.865106
72	75 (153)	26.248	41397	5.382	5.382	0.794931
73	76 (127,168,184)	26.366				
74	77 (141)	26.759	14905	3.106	3.106	0.495873
75	78 (179)	26.813	15911	2.668	2.668	0.616298
76	79 (137)	27.019	745	0.137	0.137	0.562287
77	80 (130,176)	27.159	6093	0.475	0.475	1.325956
78	82 (138,163,164)	27.379	36157	4.964	4.964	0.752744
79	83 (158,160,186)	27.554	3879	0.457	0.457	0.877758
80	84 (126,129)	27.753	483	0.024	0.024	2.111957
81	85 (166,178)	28.072	7955	2.010	2.010	0.409011
82	87 (175,159)	28.359	1642	0.366	0.366	0.464309
83	88 (182,187)	28.502	46411	6.578	6.578	0.729096
84	89 (128,162)	28.623	2136	0.183	0.183	1.207982
85	90 (183)	28.792	21811	3.106	3.106	0.725598
86	91 (167)	29.068	620	0.090	0.090	0.715139
87	92 (185)	29.370	9014	0.859	0.859	1.084920
88	93 (174,181)	29.720	41067	5.847	5.847	0.725804
89	94 (177)	29.978	19827	3.106	3.106	0.659618
90	95 (156,171)	30.272	10128	1.444	1.444	0.724927
91	96 (157,202)	30.513	6171	0.121	0.121	5.284116
92	98 (173)	30.678	688	0.069	0.069	1.024078
93	99 (201)	31.030	4712	0.713	0.713	0.683179
94	100 (172,204)	31.273	6605	1.023	1.023	0.667116
95	101 (192,197)	31.544	1213	0.201	0.201	0.623781
96	102 (180)	31.725	90305	11.147	11.147	0.837233
97	103 (193)	31.961	5698	0.768	0.768	0.767223
98	104 (191)	32.259	1575	0.219	0.219	0.742400
99	105 (200,169)	32.576	6104	0.786	0.786	0.802791
100	106 (170)	33.691	30341	2.339	2.339	1.340599
101	107 (190)	33.952	8898	0.768	0.768	1.198131
102	108 (198)	34.773	2362	0.219	0.219	1.113500
103	109 (199)	34.986	38107	7.675	7.675	0.513124
104	110 (196,203)	35.503	43009	7.858	7.858	0.565648
105	111 (189)	36.640	824	0.073	0.073	1.167741
106	112 (195)	38.087	15576	1.010	1.010	1.593227
107	113 (208)	38.575	2671	0.451	0.451	0.611808
108	114 (207)	39.479	1905	0.170	0.170	1.158538
109	115 (194)	40.821	40496	3.289	3.289	1.272350
110	116 (205)	41.673	1927	0.201	0.201	0.990884
111	I.S. (OCN)	45.131	175915	18.180	18.180	9676.274533
112	117 (206)	46.554	15094	1.242	1.242	1.255595

### Peak Results

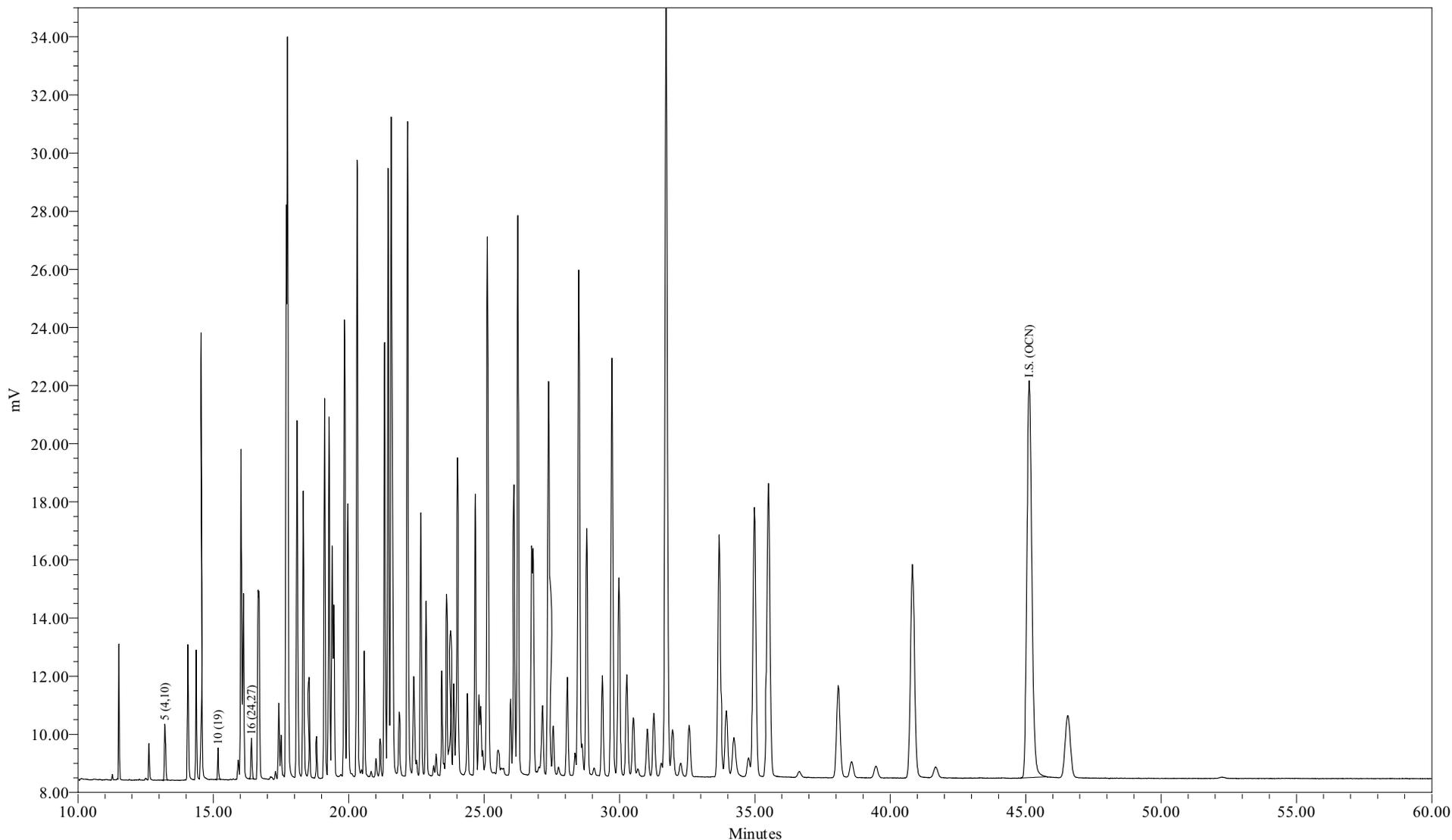
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.278	233	0.022	0.022	1.087888



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Sample Name: ICAL0905E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 9/5/2009 9:23:21 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-7



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Sample Name:	ICAL0905E	Sample Amount:	1
Sample ID:	ICAL 627 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 9:23:21 AM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/12/2009 3:19:30 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_LL1X_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:37 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-7

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.514				
2	3 (2)	12.517				
3	4 (3)	12.634				
4	5 (4,10)	13.212	6100	12.426	12.426	0.051459
5	6 (7,9)	14.064				
6	7 (6)	14.369				
7	8 (5,8)	14.552				
8	9 (14)	15.113				
9	10 (19)	15.178	2668	1.024	1.024	0.273195
10	11 (30)	15.640				
11	12 (11)	15.716				
12	13 (12,13)	15.921				
13	14 (15,18)	16.024				
14	15 (17)	16.109				
15	16 (24,27)	16.410	4054	0.950	0.950	0.447443
16	17 (16,32)	16.663				
17	19 (23,34,54)	17.114				
18	20 (29)	17.294				
19	21 (26)	17.420				
20	22 (25)	17.503				
21	23 (31)	17.698				
22	24 (28,50)	17.749				
23	25 (20,21,33,53)	18.095				
24	26 (22,51)	18.324				
25	27 (45)	18.540				
26	28 (36)	18.694				
27	29 (46)	18.808				
28	30 (39)	18.958				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
29	31 (52,69,73)	19.109				
30	32 (43,49)	19.277				
31	33 (38,47)	19.392				
32	34 (48,75)	19.457				
33	35 (62,65)	19.592				
34	36 (35)	19.690				
35	37 (104,44)	19.840				
36	38 (37,42,59)	19.968				
37	39 (41,64,71,72)	20.315				
38	41 (68,96)	20.471				
39	42 (40)	20.577				
40	43 (57,103)	20.825				
41	44 (58,67,100)	21.006				
42	45 (63)	21.163				
43	46 (74,94,61)	21.327				
44	47 (70)	21.456				
45	48 (66,76,98,80,93,95,102,88)	21.572				
46	49 (55,91,121)	21.865				
47	50 (56,60)	22.174				
48	51 (84,92,155)	22.402				
49	52 (89)	22.507				
50	53 (90,101)	22.664				
51	54 (79,99,113)	22.856				
52	55 (119,150)	23.134				
53	56 (78,83,112,108)	23.229				
54	57 (97,152,86)	23.442				
55	58 (81,87,117,125,115,145)	23.615				
56	59 (116,85,111)	23.767				
57	60 (120,136)	23.879				
58	61 (77,110,148)	24.016				
59	62 (154)	24.292				
60	63 (82)	24.383				
61	64 (151)	24.678				
62	65 (124,135)	24.807				
63	66 (144)	24.877				
64	67 (107,109,147)	24.951				
65	68 (123)	25.036				
66	69 (106,118,139,149)	25.121				
67	70 (140)	25.235				
68	71 (114,134,143)	25.515				
69	72 (122,131,133,142)	25.713				
70	73 (146,165,188)	25.982				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.097				
72	75 (153)	26.250				
73	76 (127,168,184)	26.366				
74	77 (141)	26.758				
75	78 (179)	26.813				
76	79 (137)	27.020				
77	80 (130,176)	27.161				
78	82 (138,163,164)	27.380				
79	83 (158,160,186)	27.553				
80	84 (126,129)	27.736				
81	85 (166,178)	28.072				
82	87 (175,159)	28.360				
83	88 (182,187)	28.496				
84	89 (128,162)	28.621				
85	90 (183)	28.792				
86	91 (167)	29.046				
87	92 (185)	29.366				
88	93 (174,181)	29.724				
89	94 (177)	29.979				
90	95 (156,171)	30.264				
91	96 (157,202)	30.513				
92	98 (173)	30.680				
93	99 (201)	31.039				
94	100 (172,204)	31.268				
95	101 (192,197)	31.542				
96	102 (180)	31.719				
97	103 (193)	31.958				
98	104 (191)	32.250				
99	105 (200,169)	32.576				
100	106 (170)	33.681				
101	107 (190)	33.946				
102	108 (198)	34.755				
103	109 (199)	34.980				
104	110 (196,203)	35.502				
105	111 (189)	36.642				
106	112 (195)	38.096				
107	113 (208)	38.594				
108	114 (207)	39.486				
109	115 (194)	40.838				
110	116 (205)	41.669				
111	I.S. (OCN)	45.129	173433	18.180	18.180	9539.748802
112	117 (206)	46.568				

**Peak Results**

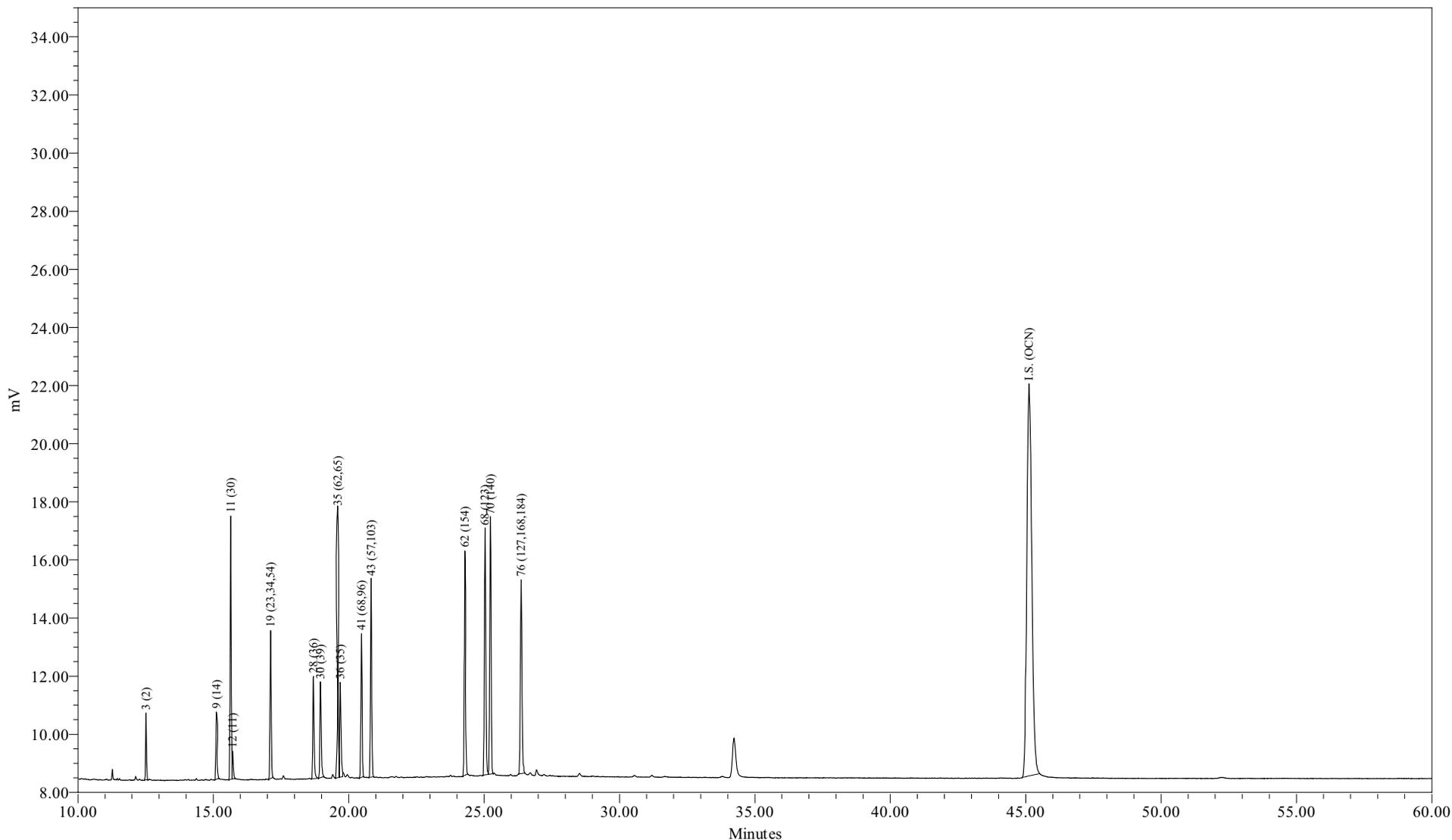
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.297				



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Sample Name: SC0905A  
Sample ID: SUP CONG STD 200/5 ng/mL  
Date Acquired: 9/5/2009 11:34:20 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X\_090509  
LIMS File ID: GC24-163-9



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Sample Name	SC0905A	Sample Amount:	1
Sample ID	SUP CONG STD 200.5 ng/mL	Dilution	1
Date Acquired	9/5/2009 11:34:20 AM EDT	Extract Volume	1
Project Name	GC24_Mar_2009	Date Processed	9/12/2009 3:19:32 PM EDT
Sample Set Name	GC24_CC_090509	User Name	Amy Jo Arndt (AmyJoA)
Processing Method	CSGB_LL1X_090509	Current Date	9/18/2009
Run Time	60.0 Minutes	Current Time	9:53:44 AM US/Eastern
Report Name	CSGB_CaStd_rpt	LIMS File ID	GC24-163-9

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	2 (1)	11.514				
2	3 (2)	12.517	4607	200.000	200.000	0.002451
3	4 (3)	12.634				
4	5 (4,10)	13.215				
5	6 (7,9)	14.064				
6	7 (6)	14.369				
7	8 (5,8)	14.552				
8	9 (14)	15.112	6274	5.000	5.000	0.133518
9	10 (19)	15.177				
10	11 (30)	15.641	23564	5.000	5.000	0.501489
11	12 (11)	15.716	2680	5.000	5.000	0.057030
12	13 (12,13)	15.921				
13	14 (15,18)	16.024				
14	15 (17)	16.109				
15	16 (24,27)	16.410				
16	17 (16,32)	16.663				
17	19 (23,34,54)	17.115	14298	5.000	5.000	0.304293
18	20 (29)	17.294				
19	21 (26)	17.420				
20	22 (25)	17.503				
21	23 (31)	17.698				
22	24 (28,50)	17.749				
23	25 (20,21,33,53)	18.095				
24	26 (22,51)	18.324				
25	27 (45)	18.540				
26	28 (36)	18.695	11375	5.000	5.000	0.242069
27	29 (46)	18.808				
28	30 (39)	18.957	10859	5.000	5.000	0.231103

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area ( $\mu\text{V} \cdot \text{sec}$ )	Solution Conc. (ng/mL)	Sample Amount (ppb)	Relative Response Factor
29	31 (52,69,73)	19.109				
30	32 (43,49)	19.277				
31	33 (38,47)	19.392				
32	34 (48,75)	19.457				
33	35 (62,65)	19.591	28612	5.000	5.000	0.608916
34	36 (35)	19.690	10923	5.000	5.000	0.232451
35	37 (104,44)	19.840				
36	38 (37,42,59)	19.968				
37	39 (41,64,71,72)	20.315				
38	41 (68,96)	20.471	15502	5.000	5.000	0.329906
39	42 (40)	20.577				
40	43 (57,103)	20.828	21768	5.000	5.000	0.463251
41	44 (58,67,100)	21.006				
42	45 (63)	21.163				
43	46 (74,94,61)	21.327				
44	47 (70)	21.456				
45	48 (66,76,98,80,93,95,102,88)	21.572				
46	49 (55,91,121)	21.865				
47	50 (56,60)	22.174				
48	51 (84,92,155)	22.402				
49	52 (89)	22.507				
50	53 (90,101)	22.664				
51	54 (79,99,113)	22.856				
52	55 (119,150)	23.134				
53	56 (78,83,112,108)	23.229				
54	57 (97,152,86)	23.442				
55	58 (81,87,117,125,115,145)	23.615				
56	59 (116,85,111)	23.767				
57	60 (120,136)	23.879				
58	61 (77,110,148)	24.016				
59	62 (154)	24.293	25746	5.000	5.000	0.547924
60	63 (82)	24.383				
61	64 (151)	24.678				
62	65 (124,135)	24.807				
63	66 (144)	24.877				
64	67 (107,109,147)	24.951				
65	68 (123)	25.035	29765	5.000	5.000	0.633456
66	69 (106,118,139,149)	25.121				
67	70 (140)	25.234	30316	5.000	5.000	0.645169
68	71 (114,134,143)	25.515				
69	72 (122,131,133,142)	25.713				
70	73 (146,165,188)	25.982				

**Peak Results**

	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
71	74 (105,132,161)	26.097				
72	75 (153)	26.250				
73	76 (127,168,184)	26.367	26043	5.000	5.000	0.554248
74	77 (141)	26.758				
75	78 (179)	26.813				
76	79 (137)	27.020				
77	80 (130,176)	27.161				
78	82 (138,163,164)	27.380				
79	83 (158,160,186)	27.553				
80	84 (126,129)	27.736				
81	85 (166,178)	28.072				
82	87 (175,159)	28.360				
83	88 (182,187)	28.496				
84	89 (128,162)	28.621				
85	90 (183)	28.792				
86	91 (167)	29.046				
87	92 (185)	29.366				
88	93 (174,181)	29.724				
89	94 (177)	29.979				
90	95 (156,171)	30.264				
91	96 (157,202)	30.513				
92	98 (173)	30.680				
93	99 (201)	31.039				
94	100 (172,204)	31.268				
95	101 (192,197)	31.542				
96	102 (180)	31.719				
97	103 (193)	31.958				
98	104 (191)	32.250				
99	105 (200,169)	32.576				
100	106 (170)	33.681				
101	107 (190)	33.946				
102	108 (198)	34.755				
103	109 (199)	34.980				
104	110 (196,203)	35.502				
105	111 (189)	36.642				
106	112 (195)	38.096				
107	113 (208)	38.594				
108	114 (207)	39.486				
109	115 (194)	40.838				
110	116 (205)	41.669				
111	I.S. (OCN)	45.122	170851	18.180	18.180	9397.750888
112	117 (206)	46.568				

### Peak Results

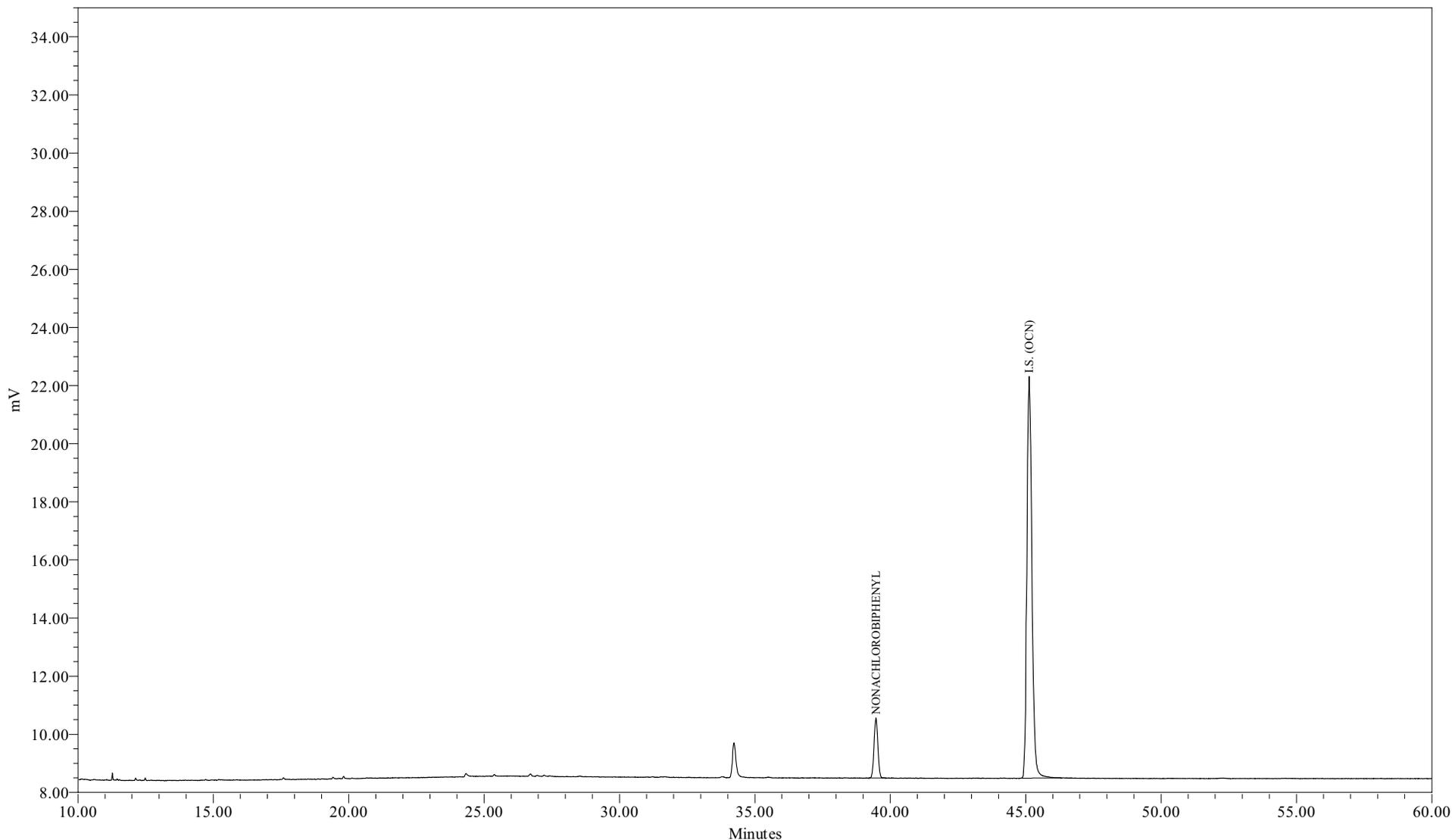
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area ( $\mu V \cdot sec$ )	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
113	118 (209)	52.297				



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Sample Name: SS0905A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 9/5/2009 12:40:05 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB S 2 090509  
LIMS File ID: GC24-163-10



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Sample Name:	SS0905A	Sample Amount:	1
Sample ID:	Surr Std (207) 2.0 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 12:40:05 PM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/7/2009 2:25:40 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_S_2_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:51 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-10

**Peak Results**

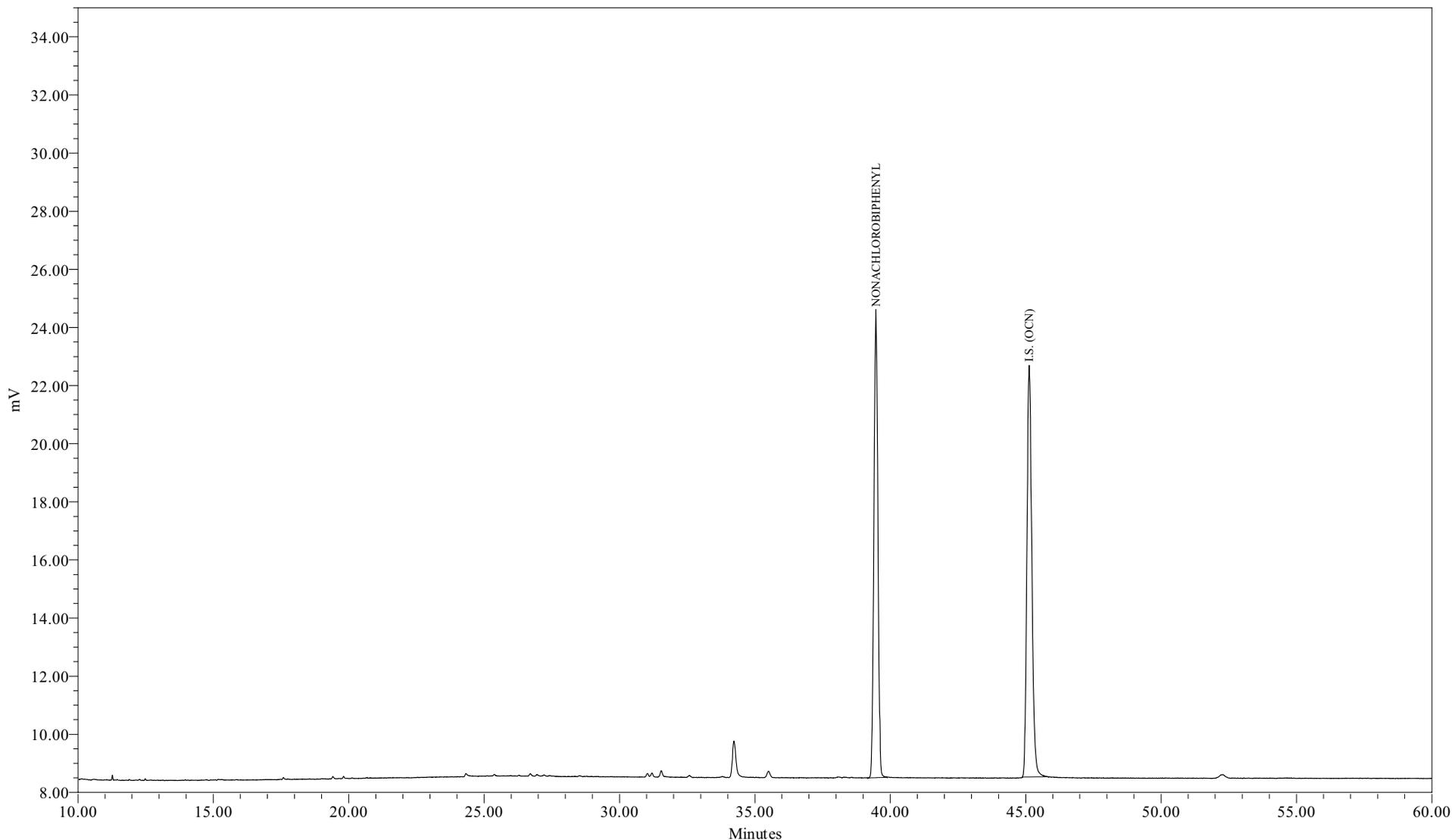
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	39.468	20397	2.000	2.000	1.042708
2	I.S. (OCN)	45.132	177818	18.180	18.180	9780.990090



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Sample Name: SS0905B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 9/5/2009 1:45:34 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB S 20 090509  
LIMS File ID: GC24-163-11



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Sample Name:	SS0905B	Sample Amount:	1
Sample ID:	Surr Std (207) 20.0 ng/mL	Dilution:	1
Date Acquired:	9/5/2009 1:45:34 PM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/7/2009 2:26:32 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_S_20_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:53:57 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-11

**Peak Results**

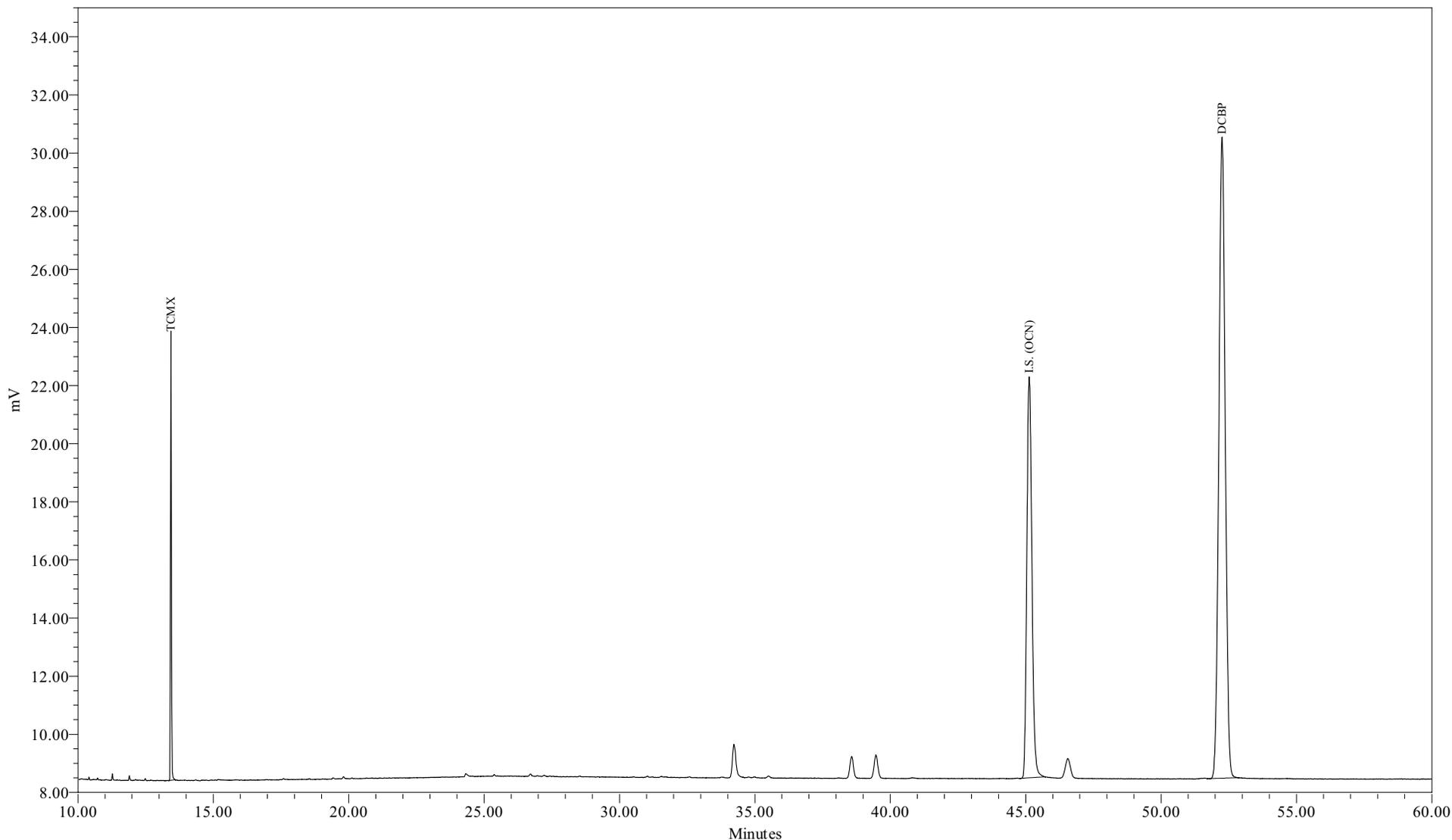
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	NONACHLOROBIPHENYL	39.468	163748	20.000	20.000	0.833772
2	I.S. (OCN)	45.129	178522	18.180	18.180	9819.708978



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Sample Name: TD0905A  
Sample ID: Surr TCMX/DCBP 5/50 ppb  
Date Acquired: 9/5/2009 2:51:02 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB TD\_S\_090509  
LIMS File ID: GC24-163-12



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Sample Name:	TD0905A	Sample Amount:	1
Sample ID:	Surr TCMX/DCBP 5/50 ppb	Dilution:	1
Date Acquired:	9/5/2009 2:51:02 PM EDT	Extract Volume:	1
Project Name:	GC24_Mar_2009	Date Processed:	9/7/2009 2:29:09 PM EDT
Sample Set Name:	GC24_CC_090509	User Name:	Amy Jo Arndt (AmyJoA)
Processing Method:	CSGB_TD_S_090509	Current Date:	9/18/2009
Run Time:	60.0 Minutes	Current Time:	9:54:00 AM US/Eastern
Report Name:	CSGB_CalStd_rpt	LIMS File ID:	GC24-163-12

**Peak Results**

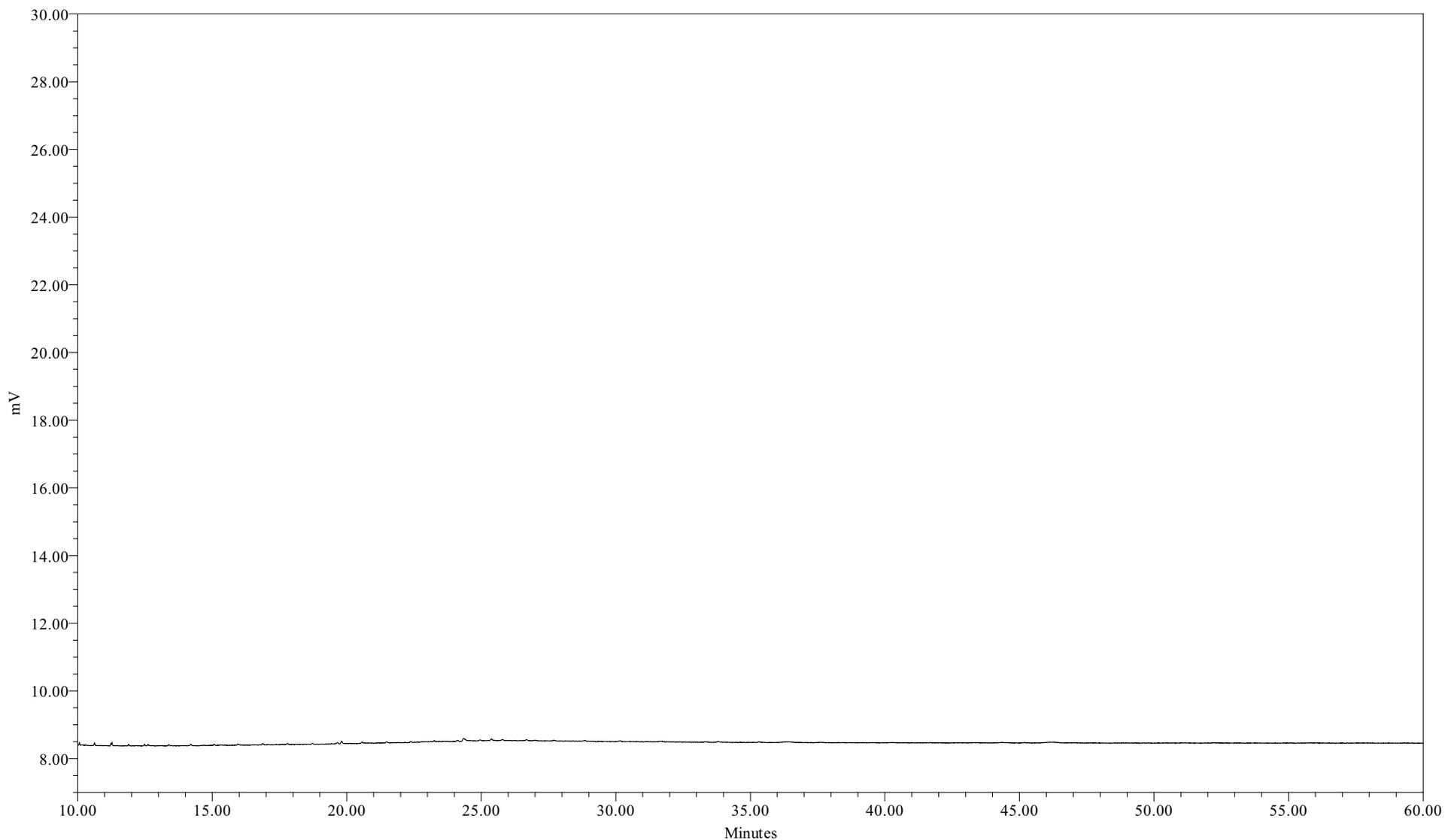
	DB-1 Peak Number (PCB IUPAC #)	Ret Time (min)	Area (uV*sec)	Solution Conc. ng/mL	Sample Amount ppb	Relative Response Factor
1	TCMX	13.436	35145	5.000	5.000	0.714607
2	I.S. (OCN)	45.132	178822	18.180	18.180	9836.191773
3	DCBP	52.254	362323	50.000	50.000	0.736714



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Sample Name: 090905B04  
Sample ID: HEXANE BLANK  
Date Acquired: 9/5/2009 3:56:30 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-163-13

**Northeast Analytical, Inc.**  
PCB CONTINUING CALIBRATION SUMMARY

LAB NAME: Northeast Analytical, Inc.                      SGD NO: 09100263  
 ELAP ID No: 11078  
 INSTRUMENT ID: GC24  
 GC COLUMN: PHENOMENEX, NARROWBORE CAPILLARY, ZB-1, 30M; ID: 0.25 mm

**Continuing Calibration Standard CCCS1022C**

Lab File ID:	<u>GC24-204-11</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>10/22/2009</u>	Calculated Amount:	<u>116 ng/ml</u>
Time:	<u>22:54:10</u>	OCN (I.S.) Peak Area:	<u>178998</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>104</u>

**Continuing Calibration Standard CCCS1022D**

Lab File ID:	<u>GC24-204-21</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>10/23/2009</u>	Calculated Amount:	<u>114 ng/ml</u>
Time:	<u>09:47:48</u>	OCN (I.S.) Peak Area:	<u>183958</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>107</u>

**Continuing Calibration Standard CCCS1023A**

Lab File ID:	<u>GC24-205-7</u>	Known Amount:	<u>122 ng/ml</u>
Date:	<u>10/23/2009</u>	Calculated Amount:	<u>116 ng/ml</u>
Time:	<u>20:46:24</u>	OCN (I.S.) Peak Area:	<u>187225</u>
		% Recovery of I.S. ( 50 - 150 %):	<u>109</u>

# Northeast Analytical, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

Peak Number DB-1	Peak Data		Continuing Calibration CCCS1022C File ID: GC24-204-11		Continuing Calibration CCCS1022D File ID: GC24-204-21		Continuing Calibration CCCS1023A File ID: GC24-205-7	
	Amount (ng/ml)	Percent Difference Limits	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference	Amount (ng/ml)	Percent Difference
7 (6)	1.35	+/-30	1.23	-9.16	1.20	-11.2	1.21	-10.1
37 (104,44)	3.06	+/-15	2.97	-3.06	2.91	-4.84	2.94	-3.79
47 (70)	2.42	+/-15	2.25	-7.15	2.20	-9.01	2.23	-7.71
93 (174,181)	2.28	+/-15	2.17	-4.90	2.13	-6.39	2.15	-5.63
102 (180)	4.35	+/-15	4.03	-7.37	3.99	-8.30	4.02	-7.59
116 (205)	0.0788	+/-30	0.0754	-4.29	0.0748	-5.14	0.0744	-5.58
Total CCCS Conc.	122	+/-15	116	-4.79	114	-6.76	116	-4.78

### Chromatographic Resolution Data

Standard	PK 15 Height (Congener 17)	1/2 PK 15 Height (Congener 17)	Valley Height (PK 14-PK 15) <sup>1</sup> (Congener 15, 18 - Congener 17)
CCCS1022C	1520 uV	760 uV	518 uV
CCCS1022D	1511 uV	755.5 uV	513 uV
CCCS1023A	1530 uV	765 uV	532 uV

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

Standard	PK 74 Height (Congener 105, 132, 161)	1/3 PK 74 Height (Congener 105, 132, 161)	Valley Height (PK 74 - PK 75) <sup>2</sup> (Congener 105, 132, 161 - Congener 153)
CCCS1022C	1884 uV	628 uV	144 uV
CCCS1022D	1952 uV	650.7 uV	140 uV
CCCS1023A	1979 uV	659.7 uV	147 uV

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS1022C	CCCS1022C File ID: GC24-204-11		CCCS1022D File ID: GC24-204-21		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
1	2 (1)	+/-0.07	11.52		11.52			
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.64		12.64			
4	5 (4,10)	+/-0.07	13.22		13.22			
5	6 (7,9)	+/-0.07	14.07		14.07			
6	7 (6)	+/-0.07	14.38		14.38			
7	8 (5,8)	+/-0.07	14.56		14.56			
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.18		15.18			
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	15.93		15.93			
13	14 (15,18)	+/-0.07	16.03		16.03			
14	15 (17)	+/-0.07	16.12		16.12			
15	16 (24,27)	+/-0.07	16.41		16.41			
16	17 (16,32)	+/-0.07	16.66		16.66			
17	19 (23,34,54)	+/-0.07	17.12		17.12			
18	20 (29)	+/-0.07	17.30		17.30			
19	21 (26)	+/-0.07	17.42		17.42			
20	22 (25)	+/-0.07	17.51		17.51			
21	23 (31)	+/-0.07	17.70		17.70			
22	24 (28,50)	+/-0.07	17.75		17.75			
23	25 (20,21,33,53)	+/-0.07	18.10		18.10			
24	26 (22,51)	+/-0.07	18.33		18.33			
25	27 (45)	+/-0.07	18.55		18.55			
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	18.82		18.82			
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.11		19.11			
30	32 (43,49)	+/-0.07	19.28		19.28			
31	33 (38,47)	+/-0.07	19.40		19.40			
32	34 (48,75)	+/-0.07	19.46		19.46			
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	19.71		19.70			
35	37 (104,44)	+/-0.07	19.84		19.85			
36	38 (37,42,59)	+/-0.07	19.97		19.97			
37	39 (41,64,71,72)	+/-0.07	20.32		20.32			
38	41 (68,96)	+/-0.07	20.47		20.47			
39	42 (40)	+/-0.07	20.58		20.58			
40	43 (57,103)	+/-0.07	20.82		20.83			
41	44 (58,67,100)	+/-0.07	21.01		21.01			
42	45 (63)	+/-0.07	21.17		21.17			
43	46 (74,94,61)	+/-0.07	21.33		21.34			
44	47 (70)	+/-0.07	21.46		21.46			
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.58		21.58			
46	49 (55,91,121)	+/-0.07	21.87		21.87			
47	50 (56,60)	+/-0.07	22.18		22.18			
48	51 (84,92,155)	+/-0.07	22.41		22.41			
49	52 (89)	+/-0.07	22.51		22.51			
50	53 (90,101)	+/-0.07	22.67		22.67			
51	54 (79,99,113)	+/-0.07	22.86		22.86			
52	55 (119,150)	+/-0.07	23.14		23.15			
53	56 (78,83,112,108)	+/-0.07	23.23		23.24			
54	57 (97,152,86)	+/-0.07	23.45		23.45			
55	58 (81,87,117,125,115,145)	+/-0.07	23.62		23.62			
56	59 (116,85,111)	+/-0.07	23.77		23.77			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS1022C	CCCS1022C File ID: GC24-204-11		CCCS1022D File ID: GC24-204-21		Retention Time	Flag
			Retention Time	Flag	Retention Time	Flag		
57	60 (120,136)	+/-0.07	23.88		23.89			
58	61 (77,110,148)	+/-0.07	24.02		24.03			
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.39		24.39			
61	64 (151)	+/-0.07	24.68		24.68			
62	65 (124,135)	+/-0.07	24.81		24.82			
63	66 (144)	+/-0.07	24.88		24.88			
64	67 (107,109,147)	+/-0.07	24.95		24.96			
65	68 (123)	+/-0.07	25.06		25.05			
66	69 (106,118,139,149)	+/-0.07	25.12		25.12			
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.51		25.51			
69	72 (122,131,133,142)	+/-0.07	25.71		25.69			
70	73 (146,165,188)	+/-0.07	25.98		25.99			
71	74 (105,132,161)	+/-0.07	26.11		26.11			
72	75 (153)	+/-0.07	26.25		26.25			
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	26.77		26.76			
75	78 (179)	+/-0.07	26.82		26.82			
76	79 (137)	+/-0.07	27.04		27.04			
77	80 (130,176)	+/-0.07	27.16		27.16			
78	82 (138,163,164)	+/-0.07	27.39		27.39			
79	83 (158,160,186)	+/-0.07	27.56		27.57			
80	84 (126,129)	+/-0.07	27.76		27.76			
81	85 (166,178)	+/-0.07	28.08		28.08			
82	87 (175,159)	+/-0.07	28.36		28.37			
83	88 (182,187)	+/-0.07	28.51		28.51			
84	89 (128,162)	+/-0.07	28.63		28.62			
85	90 (183)	+/-0.07	28.80		28.80			
86	91 (167)	+/-0.07	29.06		29.06			
87	92 (185)	+/-0.07	29.37		29.37			
88	93 (174,181)	+/-0.07	29.73		29.73			
89	94 (177)	+/-0.07	29.98		29.99			
90	95 (156,171)	+/-0.07	30.28		30.28			
91	96 (157,202)	+/-0.07	30.52		30.52			
92	98 (173)	+/-0.07	30.68		30.69			
93	99 (201)	+/-0.07	31.03		31.04			
94	100 (172,204)	+/-0.07	31.28		31.28			
95	101 (192,197)	+/-0.07	31.55		31.55			
96	102 (180)	+/-0.07	31.74		31.73			
97	103 (193)	+/-0.07	31.96		31.97			
98	104 (191)	+/-0.07	32.27		32.26			
99	105 (200,169)	+/-0.07	32.59		32.58			
100	106 (170)	+/-0.07	33.70		33.70			
101	107 (190)	+/-0.07	33.96		33.96			
102	108 (198)	+/-0.07	34.77		34.78			
103	109 (199)	+/-0.07	35.00		34.99			
104	110 (196,203)	+/-0.07	35.51		35.52			
105	111 (189)	+/-0.07	36.62		36.65			
106	112 (195)	+/-0.07	38.09		38.10			
107	113 (208)	+/-0.07	38.58		38.60			
108	114 (207)	+/-0.07	39.47		39.49			
109	115 (194)	+/-0.07	40.84		40.83			
110	116 (205)	+/-0.07	41.70		41.69			
111	117 (206)	+/-0.07	46.56		46.56			
112	118 (209)	+/-0.07	52.30		52.29			

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS1022C	CCCS1023A File ID: GC24-205-7		Retention Time	Flag	Retention Time	Flag
			Retention Time	Flag				
1	2 (1)	+/-0.07	11.52					
2	3 (2)	+/-0.07						
3	4 (3)	+/-0.07	12.64					
4	5 (4,10)	+/-0.07	13.22					
5	6 (7,9)	+/-0.07	14.07					
6	7 (6)	+/-0.07	14.38					
7	8 (5,8)	+/-0.07	14.56					
8	9 (14)	+/-0.07						
9	10 (19)	+/-0.07	15.18					
10	11 (30)	+/-0.07						
11	12 (11)	+/-0.07						
12	13 (12,13)	+/-0.07	15.93					
13	14 (15,18)	+/-0.07	16.03					
14	15 (17)	+/-0.07	16.12					
15	16 (24,27)	+/-0.07	16.41					
16	17 (16,32)	+/-0.07	16.66					
17	19 (23,34,54)	+/-0.07	17.12					
18	20 (29)	+/-0.07	17.30					
19	21 (26)	+/-0.07	17.43					
20	22 (25)	+/-0.07	17.51					
21	23 (31)	+/-0.07	17.70					
22	24 (28,50)	+/-0.07	17.75					
23	25 (20,21,33,53)	+/-0.07	18.10					
24	26 (22,51)	+/-0.07	18.33					
25	27 (45)	+/-0.07	18.55					
26	28 (36)	+/-0.07						
27	29 (46)	+/-0.07	18.82					
28	30 (39)	+/-0.07						
29	31 (52,69,73)	+/-0.07	19.12					
30	32 (43,49)	+/-0.07	19.28					
31	33 (38,47)	+/-0.07	19.40					
32	34 (48,75)	+/-0.07	19.46					
33	35 (62,65)	+/-0.07						
34	36 (35)	+/-0.07	19.70					
35	37 (104,44)	+/-0.07	19.85					
36	38 (37,42,59)	+/-0.07	19.97					
37	39 (41,64,71,72)	+/-0.07	20.32					
38	41 (68,96)	+/-0.07	20.47					
39	42 (40)	+/-0.07	20.58					
40	43 (57,103)	+/-0.07	20.83					
41	44 (58,67,100)	+/-0.07	21.01					
42	45 (63)	+/-0.07	21.17					
43	46 (74,94,61)	+/-0.07	21.33					
44	47 (70)	+/-0.07	21.47					
45	48 (66,76,98,80,93,95,102,88)	+/-0.07	21.58					
46	49 (55,91,121)	+/-0.07	21.87					
47	50 (56,60)	+/-0.07	22.18					
48	51 (84,92,155)	+/-0.07	22.41					
49	52 (89)	+/-0.07	22.51					
50	53 (90,101)	+/-0.07	22.67					
51	54 (79,99,113)	+/-0.07	22.87					
52	55 (119,150)	+/-0.07	23.14					
53	56 (78,83,112,108)	+/-0.07	23.23					
54	57 (97,152,86)	+/-0.07	23.45					
55	58 (81,87,117,125,115,145)	+/-0.07	23.62					
56	59 (116,85,111)	+/-0.07	23.77					

**Northeast Analytical, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

	Peak Number DB-1	Retention Time Window CCCS1022C	CCCS1023A File ID: GC24-205-7		Retention Time	Flag	Retention Time	Flag
			Retention Time	Flag				
57	60 (120,136)	+/-0.07	23.89					
58	61 (77,110,148)	+/-0.07	24.02					
59	62 (154)	+/-0.07						
60	63 (82)	+/-0.07	24.39					
61	64 (151)	+/-0.07	24.68					
62	65 (124,135)	+/-0.07	24.81					
63	66 (144)	+/-0.07	24.88					
64	67 (107,109,147)	+/-0.07	24.95					
65	68 (123)	+/-0.07	25.05					
66	69 (106,118,139,149)	+/-0.07	25.12					
67	70 (140)	+/-0.07						
68	71 (114,134,143)	+/-0.07	25.52					
69	72 (122,131,133,142)	+/-0.07	25.72					
70	73 (146,165,188)	+/-0.07	25.98					
71	74 (105,132,161)	+/-0.07	26.11					
72	75 (153)	+/-0.07	26.25					
73	76 (127,168,184)	+/-0.07						
74	77 (141)	+/-0.07	26.76					
75	78 (179)	+/-0.07	26.82					
76	79 (137)	+/-0.07	27.02					
77	80 (130,176)	+/-0.07	27.17					
78	82 (138,163,164)	+/-0.07	27.39					
79	83 (158,160,186)	+/-0.07	27.56					
80	84 (126,129)	+/-0.07	27.75					
81	85 (166,178)	+/-0.07	28.08					
82	87 (175,159)	+/-0.07	28.37					
83	88 (182,187)	+/-0.07	28.51					
84	89 (128,162)	+/-0.07	28.63					
85	90 (183)	+/-0.07	28.80					
86	91 (167)	+/-0.07	29.06					
87	92 (185)	+/-0.07	29.38					
88	93 (174,181)	+/-0.07	29.73					
89	94 (177)	+/-0.07	29.98					
90	95 (156,171)	+/-0.07	30.28					
91	96 (157,202)	+/-0.07	30.51					
92	98 (173)	+/-0.07	30.69					
93	99 (201)	+/-0.07	31.04					
94	100 (172,204)	+/-0.07	31.28					
95	101 (192,197)	+/-0.07	31.56					
96	102 (180)	+/-0.07	31.74					
97	103 (193)	+/-0.07	31.97					
98	104 (191)	+/-0.07	32.27					
99	105 (200,169)	+/-0.07	32.59					
100	106 (170)	+/-0.07	33.70					
101	107 (190)	+/-0.07	33.95					
102	108 (198)	+/-0.07	34.77					
103	109 (199)	+/-0.07	35.00					
104	110 (196,203)	+/-0.07	35.51					
105	111 (189)	+/-0.07	36.64					
106	112 (195)	+/-0.07	38.10					
107	113 (208)	+/-0.07	38.60					
108	114 (207)	+/-0.07	39.47					
109	115 (194)	+/-0.07	40.83					
110	116 (205)	+/-0.07	41.68					
111	117 (206)	+/-0.07	46.56					
112	118 (209)	+/-0.07	52.31					

Calibration Component Summary Table  
Component Summary for RF  
(GC-16)



Project Name:	GC16_May_2009	Current Time:	09:25:15
Sample Set Name:	GC16_082309a	Current Date:	11/06/2009
Processing Method:	CSGB_LL1X_082309	Calibration ID:	13506,13656
Run Time:	60 Minutes	Calibration Date(s):	08/23/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999666	Y = 2.83e-002 X + 1.80e-003	0.00180161883174779	0.0283332302329311
2	3 (2)	1.000000	Y = 2.90e-003 X	0	0.0028988143297413
3	4 (3)	0.998520	Y = 1.49e-002 X + 6.51e-004	0.000650508514068254	0.0148657067002506
4	5 (4,10)	0.998527	Y = 6.09e-002 X + 5.91e-005	5.90957812784954E-5	0.0608536348664009
5	6 (7,9)	0.999540	Y = 4.64e-001 X - 4.26e-003	-0.00426333353122299	0.463978147055201
6	7 (6)	0.999269	Y = 2.19e-001 X + 5.57e-003	0.00556691804847825	0.219075513631429
7	8 (5,8)	0.999143	Y = 1.17e-001 X + 8.07e-004	0.000807218077034433	0.117159733370829
8	9 (14)	1.000000	Y = 1.77e-001 X	0	0.176868975557739
9	10 (19)	0.997922	Y = 3.57e-001 X + 1.34e-003	0.00134230736134591	0.357004065514705
10	11 (30)	1.000000	Y = 6.65e-001 X	0	0.665040391278157
11	12 (11)	1.000000	Y = 6.49e-002 X	0	0.0648965680053031
12	13 (12,13)	0.999917	Y = 2.88e-001 X - 8.92e-004	-0.00089227717929410	0.287635106852082
13	14 (15,18)	0.999678	Y = 3.80e-001 X + 1.29e-003	0.00128875081394431	0.380444233011606
14	15 (17)	0.999352	Y = 1.85e-001 X - 1.85e-003	-0.00185317508611305	0.185438252271081
15	16 (24,27)	0.999820	Y = 5.58e-001 X - 1.12e-004	-0.0001150182609198	0.557991974444177
16	17 (16,32)	0.999547	Y = 3.20e-001 X + 5.14e-003	0.00513819429649165	0.319912593206853
17	19 (23,34,54)	1.000000	Y = 3.97e-001 X	0	0.396913487979062
18	20 (29)	0.999383	Y = 6.83e-001 X - 1.62e-004	-0.00016213940130775	0.682979138521941
19	21 (26)	0.999439	Y = 4.35e-001 X - 1.81e-003	-0.0018140507800633	0.434755628640035
20	22 (25)	0.996938	Y = 6.49e-001 X + 8.04e-004	0.00080395640181119	0.648567729352283
21	23 (31)	0.999851	Y = 5.15e-001 X + 1.46e-002	0.0145673812109512	0.515009697279804
22	24 (28,50)	0.999549	Y = 5.69e-001 X + 9.62e-003	0.00962487780023169	0.56929839644903
23	25 (20,21,33,53)	0.999884	Y = 4.44e-001 X + 1.09e-002	0.0109144575869213	0.443884687508628
24	26 (22,51)	0.999294	Y = 4.09e-001 X + 3.00e-003	0.00300141703110302	0.40913721561058
25	27 (45)	0.999987	Y = 5.06e-001 X - 6.15e-004	-0.00061486210722278	0.50628684614489
26	28 (36)	1.000000	Y = 3.02e-001 X	0	0.301527806357938
27	29 (46)	0.999254	Y = 4.63e-001 X + 1.04e-003	0.00104278670570448	0.462685055002637
28	30 (39)	1.000000	Y = 2.98e-001 X	0	0.298422313485573
29	31 (52,69,73)	0.999437	Y = 3.62e-001 X + 7.37e-004	0.000737007710196247	0.361920898412064
30	32 (43,49)	0.999386	Y = 7.07e-001 X - 3.03e-004	-0.00030311389247850	0.706687934615838
31	33 (38,47)	0.999624	Y = 9.57e-001 X + 1.68e-002	0.0167860356382913	0.957134995666923
32	34 (48,75)	0.998774	Y = 7.22e-001 X + 5.39e-003	0.00538866165255014	0.721989822847315
33	35 (62,65)	1.000000	Y = 7.87e-001 X	0	0.787266064787361
34	36 (35)	1.000000	Y = 2.81e-001 X	0	0.281285947945671
35	37 (104,44)	0.999213	Y = 5.48e-001 X + 9.22e-003	0.00921654953183637	0.547945433910457
36	38 (37,42,59)	0.999855	Y = 4.55e-001 X + 1.16e-003	0.00115621085286932	0.454926413995967
37	39 (41,64,71,72)	0.999616	Y = 7.02e-001 X + 1.09e-002	0.0108711637736025	0.701958584437876
38	41 (68,96)	1.000000	Y = 4.43e-001 X	0	0.443464115224603



Project Name:	GC16_May_2009	Current Time:	09:25:15
Sample Set Name:	GC16_082309a	Current Date:	11/06/2009
Processing Method:	CSGB_LL1X_082309	Calibration ID:	13506,13656
Run Time:	60 Minutes	Calibration Date(s):	08/23/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999897	Y = 6.04e-001 X - 4.21e-003	-0.00421326745900219	0.603622181652096
40	43 (57,103)	1.000000	Y = 6.06e-001 X	0	0.605790412639807
41	44 (58,67,100)	0.998948	Y = 7.79e-001 X - 8.32e-004	-0.00083217092138897	0.778991177606039
42	45 (63)	0.999241	Y = 8.27e-001 X + 5.39e-004	0.000539251350897996	0.827384791065449
43	46 (74,94,61)	0.999794	Y = 1.00e+000 X - 2.14e-003	-0.00213903143942917	1.00191846359632
44	47 (70)	0.999589	Y = 8.12e-001 X + 8.19e-003	0.00818564150034051	0.811694241011513
45	48 (66,76,98,80,93,95,102,88)	0.999559	Y = 5.42e-001 X + 1.85e-002	0.0184564418723854	0.542008063762718
46	49 (55,91,121)	0.999658	Y = 6.82e-001 X - 2.00e-003	-0.00200491296506167	0.682013523297033
47	50 (56,60)	0.999799	Y = 8.07e-001 X + 1.13e-002	0.0112868086738103	0.807084714896827
48	51 (84,92,155)	0.999444	Y = 3.26e-001 X - 1.42e-003	-0.00141685713963935	0.326128445303552
49	52 (89)	0.998646	Y = 7.39e-001 X - 2.29e-004	-0.00022927629604231	0.738863554876024
50	53 (90,101)	0.999157	Y = 6.99e-001 X - 5.01e-003	-0.00501475782233363	0.699255044336957
51	54 (79,99,113)	0.999498	Y = 1.10e+000 X - 2.63e-003	-0.00262837346552192	1.10071333097558
52	55 (119,150)	0.996725	Y = 1.91e+000 X + 1.01e-004	0.000100839781498337	1.90685721838572
53	56 (78,83,112,108)	0.999355	Y = 6.97e-001 X - 8.92e-004	-0.00089227127813185	0.696741560328289
54	57 (97,152,86)	0.998416	Y = 9.83e-001 X - 3.27e-003	-0.00326735698187119	0.982534433277263
55	58 (81,87,117,125,115,145)	0.999096	Y = 7.60e-001 X + 9.95e-004	0.000994669274042681	0.75951098464587
56	59 (116,85,111)	0.999734	Y = 9.55e-001 X - 3.70e-003	-0.00369590126437702	0.955469687718431
57	60 (120,136)	0.999609	Y = 7.72e-001 X - 2.00e-003	-0.00199522679699027	0.771795849662583
58	61 (77,110,148)	0.999316	Y = 6.99e-001 X - 5.28e-003	-0.00527836180821928	0.699080508987253
59	62 (154)	1.000000	Y = 7.11e-001 X	0	0.71130310696467
60	63 (82)	0.997002	Y = 9.38e-001 X + 3.62e-003	0.0036203962758749	0.937575562680917
61	64 (151)	0.999447	Y = 7.73e-001 X + 5.10e-003	0.00509705466801091	0.772582268426784
62	65 (124,135)	0.998282	Y = 1.28e+000 X + 3.13e-003	0.00313423642198085	1.28206092263176
63	66 (144)	0.999835	Y = 5.06e-001 X - 4.41e-004	-0.00044146933059446	0.505503248842196
64	67 (107,109,147)	0.999354	Y = 7.60e-001 X - 8.93e-004	-0.00089312051045831	0.759765687099173
65	68 (123)	1.000000	Y = 7.70e-001 X	0	0.769563853971667
66	69 (106,118,139,149)	0.999198	Y = 8.59e-001 X + 1.13e-002	0.0113467282905373	0.85885310852236
67	70 (140)	1.000000	Y = 8.14e-001 X	0	0.813821753273992
68	71 (114,134,143)	0.996791	Y = 9.90e-001 X + 1.10e-003	0.00109507649459528	0.98995829343812
69	72 (122,131,133,142)	0.998963	Y = 2.06e+000 X - 1.47e-004	-0.00014699669591231	2.06215739442918
70	73 (146,165,188)	0.997231	Y = 9.82e-001 X - 5.59e-004	-0.00055898448123797	0.981755005704735
71	74 (105,132,161)	0.999543	Y = 1.10e+000 X + 2.05e-003	0.00204720262696267	1.10073134524835
72	75 (153)	0.999058	Y = 1.06e+000 X + 9.13e-003	0.00913397778546488	1.05643617113411
73	76 (127,168,184)	1.000000	Y = 6.63e-001 X	0	0.662614656511015
74	77 (141)	0.998580	Y = 6.66e-001 X + 7.26e-004	0.000726456693527	0.666218065393652
75	78 (179)	0.997428	Y = 8.24e-001 X + 2.73e-005	2.7319174270346E-5	0.824102698371263
76	79 (137)	0.999964	Y = 8.37e-001 X + 2.76e-004	0.000275715034236547	0.837049243693505



Project Name:	GC16_May_2009	Current Time:	09:25:15
Sample Set Name:	GC16_082309a	Current Date:	11/06/2009
Processing Method:	CSGB_LL1X_082309	Calibration ID:	13506,13656
Run Time:	60 Minutes	Calibration Date(s):	08/23/2009

**Correlation Summary**

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.997221	Y = 1.81e+000 X + 2.21e-003	0.00220808410031231	1.80617206501532
78	82 (138,163,164)	0.999086	Y = 9.59e-001 X + 1.64e-002	0.0163962096141765	0.959357538827507
79	83 (158,160,186)	0.998076	Y = 1.22e+000 X + 3.84e-003	0.00383730580819436	1.22403538482793
80	84 (126,129)	0.999921	Y = 7.16e+000 X - 1.02e-003	-0.0010169215844005	7.16239894004932
81	85 (166,178)	0.999269	Y = 5.46e-001 X - 1.74e-003	-0.00174232352807757	0.546065284242855
82	87 (175,159)	0.997907	Y = 6.77e-001 X - 8.26e-004	-0.00082550261690972	0.677419995287286
83	88 (182,187)	0.999692	Y = 9.45e-001 X + 2.38e-002	0.0237746678649109	0.945448393039283
84	89 (128,162)	0.997455	Y = 1.62e+000 X - 9.37e-004	-0.00093717667967063	1.62090770013763
85	90 (183)	0.998919	Y = 9.28e-001 X - 9.69e-003	-0.00968843132498631	0.927903589256649
86	91 (167)	0.999637	Y = 1.82e+000 X - 7.72e-004	-0.00077158670663528	1.81719867853614
87	92 (185)	0.999223	Y = 1.34e+000 X + 2.80e-003	0.00279575322946024	1.34115536940091
88	93 (174,181)	0.999764	Y = 9.17e-001 X + 1.50e-002	0.0149610719195108	0.916849056922926
89	94 (177)	0.999316	Y = 8.14e-001 X + 2.40e-003	0.00239738708996562	0.813990152366728
90	95 (156,171)	0.999470	Y = 8.83e-001 X - 4.14e-003	-0.00413990273083431	0.883476486883518
91	96 (157,202)	0.999833	Y = 6.07e+000 X + 3.75e-003	0.0037473033113688	6.06533724310093
92	98 (173)	0.995434	Y = 1.27e+000 X + 9.10e-004	0.000910324211345924	1.27009391321699
93	99 (201)	0.999519	Y = 8.14e-001 X + 1.37e-003	0.00137285179978336	0.813671112228541
94	100 (172,204)	0.999836	Y = 7.91e-001 X + 3.06e-003	0.0030613018794507	0.790792873880464
95	101 (192,197)	0.998986	Y = 7.92e-001 X + 9.71e-004	0.000971240314824803	0.79175447568383
96	102 (180)	0.999719	Y = 1.05e+000 X + 4.09e-002	0.040895239450335	1.04620529304539
97	103 (193)	0.999603	Y = 8.69e-001 X + 5.62e-004	0.000562266648669374	0.869453450791319
98	104 (191)	0.999874	Y = 9.08e-001 X - 1.06e-004	-0.00010648264862804	0.907718460139434
99	105 (200,169)	0.999680	Y = 9.07e-001 X - 8.29e-004	-0.00082928551244948	0.906747790327734
100	106 (170)	0.999935	Y = 1.59e+000 X + 9.57e-003	0.00957083545351622	1.58594500871684
101	107 (190)	0.999959	Y = 1.35e+000 X - 1.00e-003	-0.00100167292070918	1.34663560293384
102	108 (198)	0.999924	Y = 1.28e+000 X + 3.15e-003	0.00315169937761581	1.27606872681562
103	109 (199)	0.999653	Y = 6.14e-001 X + 3.57e-003	0.00357195742316518	0.61432259922954
104	110 (196,203)	0.999808	Y = 6.65e-001 X + 1.96e-002	0.0196198264294685	0.66490789965409
105	111 (189)	0.998284	Y = 1.39e+000 X + 3.43e-004	0.000342835428392099	1.39460829789726
106	112 (195)	0.999577	Y = 1.77e+000 X + 1.72e-004	0.000171863319533228	1.7656121142616
107	113 (208)	0.998357	Y = 6.34e-001 X + 1.15e-003	0.0011471857955701	0.63375215803562
108	114 (207)	0.999717	Y = 1.31e+000 X - 9.15e-004	-0.00091492958832448	1.30986058389035
109	115 (194)	0.999616	Y = 1.42e+000 X + 2.73e-002	0.0273393258160071	1.42214302195135
110	116 (205)	0.999937	Y = 8.98e-001 X - 4.47e-004	-0.00044665653333750	0.897692199238193
111	117 (206)	0.999060	Y = 1.37e+000 X - 3.79e-003	-0.00378942210764255	1.3693266605021
112	118 (209)	0.995604	Y = 1.11e+000 X - 1.51e-004	-0.00015145566795998	1.10896434916728
113	I.S. (OCN)	1.000000	Y = 9.10e+003 X	0	9099.96020396856

Calibration Component Summary Table  
Component Summary for RF  
(GC-24)



Project Name:	GC24_Mar_2009	Current Time:	09:25:16
Sample Set Name:	GC24_CC_090509	Current Date:	11/06/2009
Processing Method:	CSGB_LL1X_090509	Calibration ID:	29613,30080
Run Time:	60 Minutes	Calibration Date(s):	09/05/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
1	2 (1)	0.999375	Y = 2.19e-002 X + 1.15e-003	0.00114918569866637	0.0218998940675526
2	3 (2)	1.000000	Y = 2.45e-003 X	0	0.00245098893045314
3	4 (3)	0.998832	Y = 1.12e-002 X - 6.60e-004	-0.00065959886838191	0.0111700989232165
4	5 (4,10)	0.999703	Y = 5.22e-002 X - 5.25e-004	-0.00052451384928620	0.0522240503887821
5	6 (7,9)	0.999625	Y = 3.59e-001 X + 5.06e-003	0.00505798707051908	0.358966795849906
6	7 (6)	0.999534	Y = 1.72e-001 X + 1.91e-004	0.000190992185699679	0.172245016954212
7	8 (5,8)	0.999446	Y = 9.23e-002 X + 1.73e-002	0.0172902146013778	0.0922684464936554
8	9 (14)	1.000000	Y = 1.34e-001 X	0	0.133517901084496
9	10 (19)	0.999493	Y = 2.81e-001 X - 8.00e-004	-0.00080007567192366	0.280620352159815
10	11 (30)	1.000000	Y = 5.01e-001 X	0	0.501488828934829
11	12 (11)	1.000000	Y = 5.70e-002 X	0	0.0570297654830576
12	13 (12,13)	0.999318	Y = 2.33e-001 X + 1.79e-004	0.000178964654987755	0.233272203578713
13	14 (15,18)	0.999498	Y = 2.68e-001 X + 8.44e-003	0.00843902895813453	0.267750144002629
14	15 (17)	0.998282	Y = 1.74e-001 X + 3.46e-003	0.00346017989162106	0.174457477141375
15	16 (24,27)	0.998877	Y = 4.61e-001 X + 2.18e-004	0.000218000583490308	0.460878660034993
16	17 (16,32)	0.999427	Y = 2.50e-001 X + 5.99e-003	0.00598935937379519	0.249883769805586
17	19 (23,34,54)	1.000000	Y = 3.04e-001 X	0	0.304293169080831
18	20 (29)	0.999809	Y = 4.08e-001 X + 3.51e-004	0.000351425726980489	0.40824989624556
19	21 (26)	0.999987	Y = 3.16e-001 X + 9.97e-004	0.000997409547049355	0.316291692984399
20	22 (25)	0.999972	Y = 4.47e-001 X + 3.06e-004	0.00030633724480178	0.446988160177157
21	23 (31)	0.999916	Y = 3.67e-001 X + 1.96e-002	0.0196306253619023	0.367222949057877
22	24 (28,50)	0.998758	Y = 4.66e-001 X + 3.10e-002	0.0309954255818892	0.46600369744225
23	25 (20,21,33,53)	0.999844	Y = 3.43e-001 X + 7.91e-003	0.0079085413701705	0.342670171746286
24	26 (22,51)	0.999924	Y = 3.30e-001 X + 5.98e-003	0.00597716049963515	0.32976122641193
25	27 (45)	0.999997	Y = 3.76e-001 X + 4.60e-003	0.00459942758604026	0.375655660398976
26	28 (36)	1.000000	Y = 2.42e-001 X	0	0.242069337889943
27	29 (46)	0.999960	Y = 3.35e-001 X - 4.72e-004	-0.00047239566193130	0.335290279600308
28	30 (39)	1.000000	Y = 2.31e-001 X	0	0.231102852203936
29	31 (52,69,73)	0.999164	Y = 2.70e-001 X + 1.28e-002	0.0127756574847226	0.270179768696834
30	32 (43,49)	0.999276	Y = 5.40e-001 X + 4.06e-003	0.00405905728350664	0.540133558869803
31	33 (38,47)	0.998535	Y = 7.53e-001 X + 1.32e-002	0.0131890914105818	0.753298649002196
32	34 (48,75)	0.999172	Y = 5.76e-001 X + 1.52e-003	0.00152231489331767	0.57646935941099
33	35 (62,65)	1.000000	Y = 6.09e-001 X	0	0.608915948915831
34	36 (35)	1.000000	Y = 2.32e-001 X	0	0.232450889234846
35	37 (104,44)	0.999409	Y = 4.10e-001 X + 3.90e-002	0.0390082706071018	0.409732213645608
36	38 (37,42,59)	0.999204	Y = 3.52e-001 X + 3.72e-003	0.00372222366506658	0.352013770053551
37	39 (41,64,71,72)	0.999541	Y = 5.40e-001 X + 2.14e-002	0.0213582928172595	0.539558812919517
38	41 (68,96)	1.000000	Y = 3.30e-001 X	0	0.32990601837551



Project Name:	GC24_Mar_2009	Current Time:	09:25:16
Sample Set Name:	GC24_CC_090509	Current Date:	11/06/2009
Processing Method:	CSGB_LL1X_090509	Calibration ID:	29613,30080
Run Time:	60 Minutes	Calibration Date(s):	09/05/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
39	42 (40)	0.999842	Y = 4.73e-001 X - 1.07e-003	-0.00107390055135953	0.472760671880271
40	43 (57,103)	1.000000	Y = 4.63e-001 X	0	0.463250957624441
41	44 (58,67,100)	0.999878	Y = 6.04e-001 X + 3.96e-004	0.000395679645019187	0.603519689778075
42	45 (63)	0.999999	Y = 6.04e-001 X - 4.16e-005	-4.15816865692031E-5	0.603732264034578
43	46 (74,94,61)	0.999559	Y = 7.89e-001 X + 1.19e-002	0.011852950807834	0.789340532330662
44	47 (70)	0.999172	Y = 6.33e-001 X + 2.58e-002	0.0258408946762509	0.632664671251905
45	48 (66,76,98,80,93,95,102,88)	0.999175	Y = 4.27e-001 X + 3.74e-002	0.0374130322075761	0.427430089097727
46	49 (55,91,121)	0.999968	Y = 5.34e-001 X - 2.77e-003	-0.00277202329652881	0.534198313943678
47	50 (56,60)	0.999680	Y = 6.47e-001 X + 1.84e-002	0.0183891388292561	0.64685445965665
48	51 (84,92,155)	0.999520	Y = 2.57e-001 X + 4.55e-003	0.00454805164163247	0.256750901282339
49	52 (89)	0.999965	Y = 5.35e-001 X + 1.30e-005	1.29832263487603E-5	0.534797330943592
50	53 (90,101)	0.999212	Y = 5.43e-001 X + 1.34e-002	0.0134130467062864	0.543370201245317
51	54 (79,99,113)	0.999489	Y = 8.53e-001 X + 2.34e-003	0.00233511598008251	0.853281865869852
52	55 (119,150)	0.995727	Y = 1.26e+000 X - 6.94e-004	-0.00069390319978701	1.26338853786118
53	56 (78,83,112,108)	0.998632	Y = 4.98e-001 X - 6.77e-004	-0.00067721036458197	0.498192357499842
54	57 (97,152,86)	0.999451	Y = 7.27e-001 X + 9.13e-006	9.12601079799957E-6	0.726812331581486
55	58 (81,87,117,125,115,145)	0.998742	Y = 6.01e-001 X + 3.85e-003	0.00384725798850216	0.600801766163715
56	59 (116,85,111)	0.999913	Y = 7.66e-001 X - 6.05e-004	-0.00060500106327743	0.766416785008303
57	60 (120,136)	0.999486	Y = 4.39e-001 X - 4.63e-004	-0.00046258652809733	0.439110079192763
58	61 (77,110,148)	0.999527	Y = 6.09e-001 X + 5.49e-003	0.00549485702072605	0.609033681811419
59	62 (154)	1.000000	Y = 5.48e-001 X	0	0.547924380591247
60	63 (82)	0.999346	Y = 7.39e-001 X + 4.01e-003	0.00400920347385453	0.739321952135115
61	64 (151)	0.999545	Y = 5.98e-001 X + 1.03e-002	0.0103402158987131	0.598496988901143
62	65 (124,135)	0.999603	Y = 9.99e-001 X - 6.26e-004	-0.00062583428186552	0.99906852577177
63	66 (144)	0.999861	Y = 4.09e-001 X - 3.95e-004	-0.00039546434271656	0.408708436555084
64	67 (107,109,147)	0.997781	Y = 6.17e-001 X - 5.10e-004	-0.00051041831914983	0.617260133200578
65	68 (123)	1.000000	Y = 6.33e-001 X	0	0.633456361025202
66	69 (106,118,139,149)	0.998877	Y = 6.67e-001 X + 3.43e-002	0.0343210460556618	0.666517368827283
67	70 (140)	1.000000	Y = 6.45e-001 X	0	0.645168788064677
68	71 (114,134,143)	0.999829	Y = 6.61e-001 X - 3.57e-005	-3.57222781863092E-5	0.660860063860347
69	72 (122,131,133,142)	0.997904	Y = 1.01e+000 X + 5.74e-004	0.000574120786733346	1.01464575845702
70	73 (146,165,188)	0.999484	Y = 7.25e-001 X + 1.41e-003	0.00141400637965305	0.725245317137927
71	74 (105,132,161)	0.999667	Y = 8.76e-001 X + 4.93e-003	0.00492856875016012	0.876273956193995
72	75 (153)	0.998494	Y = 8.14e-001 X + 3.07e-002	0.0307154928391586	0.814466849730675
73	76 (127,168,184)	1.000000	Y = 5.54e-001 X	0	0.554248378495811
74	77 (141)	0.999715	Y = 5.01e-001 X + 5.09e-003	0.00508934789545379	0.501174797833575
75	78 (179)	0.998435	Y = 6.31e-001 X + 1.60e-002	0.0160191224558756	0.630858398874264
76	79 (137)	0.995478	Y = 5.83e-001 X + 1.21e-003	0.00121223519224356	0.58309669477838



Project Name:	GC24_Mar_2009	Current Time:	09:25:16
Sample Set Name:	GC24_CC_090509	Current Date:	11/06/2009
Processing Method:	CSGB_LL1X_090509	Calibration ID:	29613,30080
Run Time:	60 Minutes	Calibration Date(s):	09/05/2009

Correlation Summary

	DB-1 Peak Number (PCB IUPAC #)	Correlation Coefficient	Equation	Value A	Value B
77	80 (130,176)	0.998863	Y = 1.36e+000 X + 2.96e-004	0.000295823567599163	1.36322949172547
78	82 (138,163,164)	0.999253	Y = 7.64e-001 X + 2.62e-002	0.026195003293918	0.764227235503645
79	83 (158,160,186)	0.998715	Y = 8.89e-001 X - 7.12e-004	-0.00071194855604361	0.88876824078208
80	84 (126,129)	0.999555	Y = 2.08e+000 X + 7.33e-005	7.32863183465736E-5	2.07584569751773
81	85 (166,178)	0.999483	Y = 4.14e-001 X + 4.93e-003	0.00492934003768014	0.41425444609818
82	87 (175,159)	0.999998	Y = 4.68e-001 X - 1.03e-003	-0.00103101525548302	0.467634060719357
83	88 (182,187)	0.999041	Y = 7.40e-001 X + 4.31e-002	0.0431444520726716	0.74048766353272
84	89 (128,162)	0.998513	Y = 1.23e+000 X + 1.68e-003	0.00168427296164815	1.2347085107884
85	90 (183)	0.999418	Y = 7.38e-001 X + 7.35e-003	0.00734895488083565	0.737869261484257
86	91 (167)	0.997702	Y = 6.97e-001 X - 6.78e-004	-0.00067802761216278	0.697452344771515
87	92 (185)	0.999809	Y = 1.10e+000 X + 1.27e-004	0.000126710100648242	1.09722799132178
88	93 (174,181)	0.999605	Y = 7.31e-001 X + 3.97e-002	0.0397425988632096	0.730965696178334
89	94 (177)	0.999699	Y = 6.63e-001 X + 1.78e-002	0.0177542042332162	0.66306552674561
90	95 (156,171)	0.999970	Y = 7.27e-001 X + 5.00e-004	0.000499568382222537	0.726791371848532
91	96 (157,202)	0.999938	Y = 5.33e+000 X - 1.42e-003	-0.00142158978368123	5.32753438231565
92	98 (173)	0.995540	Y = 9.83e-001 X - 5.97e-004	-0.00059674799997845	0.983006754453052
93	99 (201)	0.999711	Y = 6.89e-001 X + 1.89e-003	0.00189280132272013	0.689204899270352
94	100 (172,204)	0.999597	Y = 6.75e-001 X - 2.13e-003	-0.00213407351871187	0.674569244735893
95	101 (192,197)	0.999544	Y = 6.14e-001 X + 7.96e-005	7.95671656876329E-5	0.613501101132981
96	102 (180)	0.998992	Y = 8.50e-001 X + 9.48e-002	0.094784911068877	0.850045898080203
97	103 (193)	0.999797	Y = 7.76e-001 X - 1.36e-004	-0.00013631400454039	0.775682441553267
98	104 (191)	0.999957	Y = 7.47e-001 X - 1.86e-003	-0.00186153721612049	0.74721552687875
99	105 (200,169)	0.999994	Y = 8.00e-001 X + 2.05e-003	0.00204843158660473	0.800116401767276
100	106 (170)	0.999252	Y = 1.35e+000 X + 2.46e-002	0.0245611165549038	1.35428531745479
101	107 (190)	0.999550	Y = 1.22e+000 X + 2.41e-003	0.00240799470191699	1.21500230128087
102	108 (198)	0.997942	Y = 1.14e+000 X + 2.11e-003	0.00210686185370315	1.14304815363678
103	109 (199)	0.999040	Y = 5.23e-001 X + 2.29e-002	0.0228825575335123	0.523075146096841
104	110 (196,203)	0.999386	Y = 5.73e-001 X + 3.12e-002	0.0312359614306845	0.572530626759449
105	111 (189)	0.999019	Y = 1.15e+000 X - 3.94e-004	-0.00039384436168186	1.14605850679149
106	112 (195)	0.999551	Y = 1.62e+000 X - 1.58e-003	-0.00157775963149598	1.62123386319432
107	113 (208)	0.999912	Y = 6.18e-001 X - 7.60e-004	-0.00075990496905098	0.617872245201678
108	114 (207)	1.000000	Y = 1.15e+000 X + 1.09e-003	0.00108770629785634	1.15180476963398
109	115 (194)	0.999730	Y = 1.29e+000 X + 1.46e-002	0.0145905351184505	1.28509431821167
110	116 (205)	0.999785	Y = 9.81e-001 X - 3.65e-004	-0.00036523267932367	0.980914805049389
111	117 (206)	0.999803	Y = 1.26e+000 X + 1.68e-003	0.00167504967320498	1.25554080748953
112	118 (209)	0.995280	Y = 1.14e+000 X + 1.86e-004	0.000186144881709868	1.13851615009832
113	I.S. (OCN)	1.000000	Y = 9.44e+003 X	0	9436.05309740311

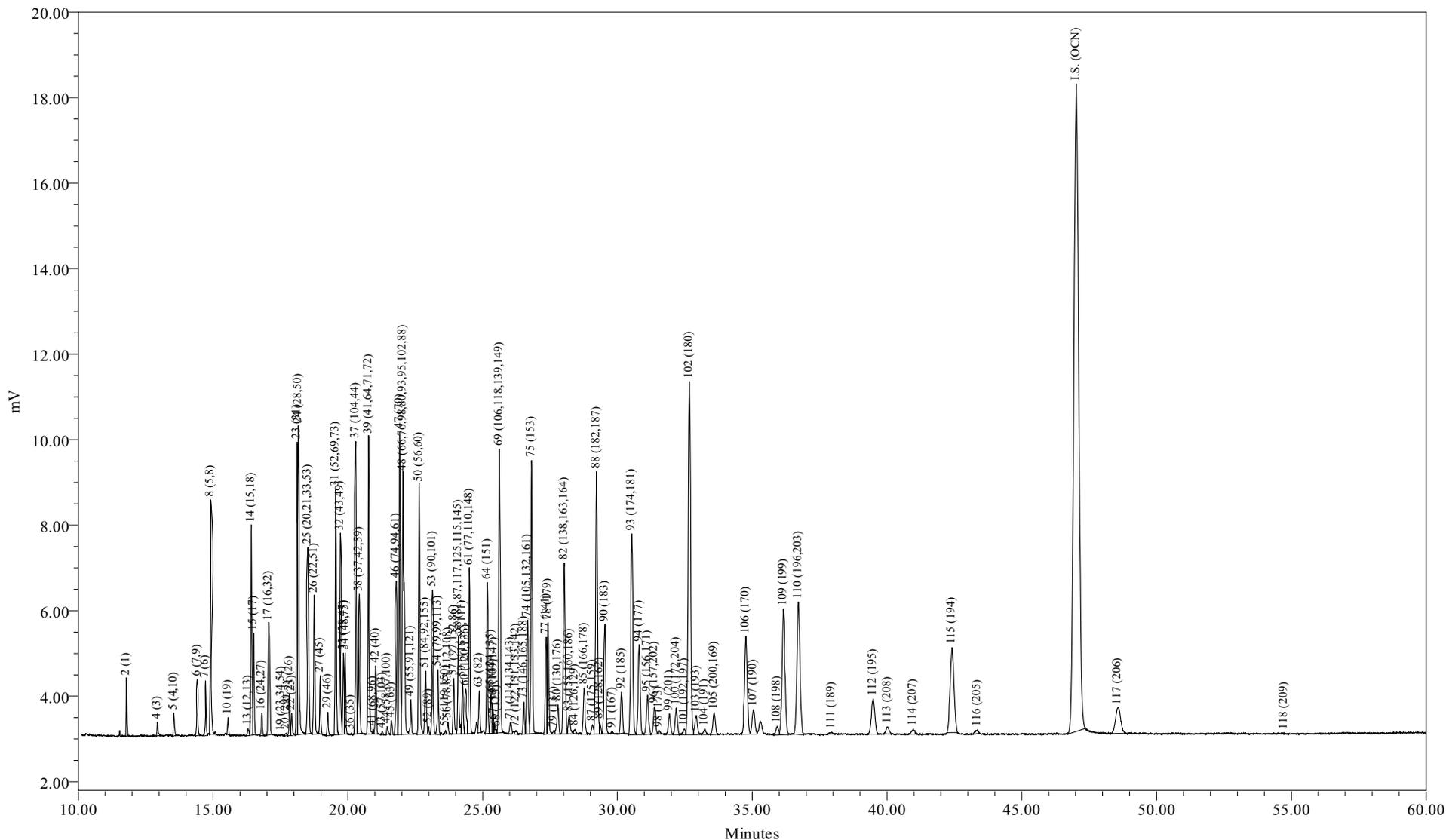
# Standards Raw Data (GC-16)



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: CCCS1022A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 10/22/2009 13:12:19 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-827-2

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 13:12:19  
 Lab Sample ID: CCCS1022A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-827-2

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 131 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.23	15.27
Di	12.89	16.19
Tri	18.29	19.99
Tetra	21.46	20.77
Penta	8.21	7.04
Hexa	7.74	6.09
Hepta	13.31	9.50
Octa	7.25	4.75
Nona	0.63	0.38
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	8.3644	36.7	29.8
A1242	23+24/31+28	6.8213	29.9	24.3
A1254SED	61/100	1.7082	7.49	
A1254BIO	69+75+82/149+153+138	6.9822		24.9
A1260	102/180	4.6246	20.3	16.5
A1268	115/194	1.2900	5.66	4.59

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.12

Total Cl / biphenyl Residue = 3.70

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 13:12:19  
 Lab Sample ID: CCCS1022A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-827-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2544	8.36	44.3			
3	12.83	188.7		-	-			
4	12.94	188.7	806	5.04	26.7			
5	13.54	223.1	1569	2.42	10.8			
6	14.41	223.1	4040	0.826	3.70			
7	14.72	223.1	3155	1.33	5.95			
8	14.92	223.1	14124	11.3	50.7			
9	15.48	223.1		-	-			
10	15.56	257.5	953	0.247	0.959			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.30	223.1	576	0.191	0.857			
14	16.42	249.0	13455	3.32	13.3			
15	16.51	257.5	6519	3.31	12.9			
16	16.81	257.5	1468	0.247	0.960			
17	17.06	257.5	11540	3.37	13.1			
19	17.54	267.9	109	0.0257	0.0961			
20	17.72	257.5	251	0.0347	0.135			
21	17.83	257.5	2746	0.597	2.32			
22	17.92	257.5	1564	0.225	0.874			
23	18.12	257.5	17355	3.13	12.2			
24	18.16	257.5	22466	3.69	14.3			
25	18.52	259.5	15357	3.22	12.4			
26	18.75	258.7	9992	2.28	8.83			
27	18.98	292.0	3765	0.699	2.39			
28	19.12	257.5		-	-			
29	19.26	292.0	1596	0.322	1.10			
30	19.39	257.5		-	-			
31	19.55	292.0	16932	4.39	15.0			
32	19.72	292.0	13647	1.81	6.21			
33	19.84	292.0	5384	0.510	1.75			
34	19.90	292.0	5448	0.701	2.40			
35	20.04	292.0		-	-			
36	20.12	257.5	123	0.0410	0.159			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	20315	3.46	11.9			
38	20.42	272.4	11222	2.31	8.49			
39	20.77	292.0	22862	3.04	10.4			
41	20.93	326.4	254	0.0537	0.164			
42	21.03	292.0	4836	0.759	2.60			
43	21.28	298.9	231	0.0358	0.120			
44	21.46	298.9	605	0.0739	0.247			
45	21.62	292.0	995	0.112	0.384			
46	21.79	292.0	11274	1.06	3.62			
47	21.92	292.0	22228	2.56	8.77			
48	22.04	293.5	30644	5.27	18.0			
49	22.33	324.7	2769	0.384	1.18			
50	22.65	292.0	19914	2.30	7.88			
51	22.88	326.4	5775	1.67	5.11			
52	22.99	326.4	536	0.0684	0.209			
53	23.14	326.4	10856	1.46	4.49			
54	23.34	326.4	4997	0.428	1.31			
55	23.63	326.4	216	0.0106	0.0323			
56	23.71	326.4	883	0.120	0.368			
57	23.93	326.4	4278	0.412	1.26			
58	24.10	326.4	7594	0.937	2.87			
59	24.26	326.4	4076	0.404	1.24			
60	24.37	360.9	3539	0.433	1.20			
61	24.51	326.4	12667	1.71	5.23			
62	24.79	360.9		-	-			
63	24.88	326.4	3242	0.321	0.982			
64	25.17	360.9	11148	1.35	3.73			
65	25.31	350.5	2949	0.213	0.609			
66	25.37	360.9	2308	0.429	1.19			
67	25.43	336.8	675	0.0845	0.251			
68	25.53	326.4	170	0.0207	0.0635			
69	25.62	337.5	26777	2.91	8.63			
70	25.74	360.9		-	-			
71	26.03	347.8	1273	0.120	0.344			
72	26.23	336.8	422	0.0193	0.0572			
73	26.53	360.9	2667	0.256	0.708			
74	26.66	347.8	11020	0.938	2.70			
75	26.82	360.9	24168	2.14	5.93			
76	26.93	360.9		-	-			
77	27.36	360.9	8451	1.19	3.30			
78	27.43	395.3	10247	1.17	2.95			
79	27.65	360.9	327	0.0364	0.101			
80	27.80	360.9	3289	0.170	0.470			
82	28.03	360.9	19910	1.93	5.35			
83	28.21	360.9	2222	0.167	0.463			
84	28.42	360.9	423	0.00569	0.0158			
85	28.77	395.3	4835	0.834	2.11			
87	29.07	395.3	1026	0.143	0.363			
88	29.23	395.3	29249	2.88	7.28			
89	29.35	360.9	898	0.0526	0.146			
90	29.54	395.3	12355	1.26	3.19			
91	29.81	360.9	208	0.0112	0.0309			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.15	394.3	4783	0.333	0.844			
93	30.53	394.3	24671	2.51	6.36			
94	30.81	394.3	11109	1.28	3.24			
95	31.12	382.2	5189	0.556	1.45			
96	31.38	429.8	3544	0.0542	0.126			
98	31.54	395.3	328	0.0235	0.0594			
99	31.93	429.8	2738	0.314	0.731			
100	32.18	395.3	3545	0.417	1.05			
101	32.48	429.8	848	0.0993	0.231			
102	32.67	395.3	51986	4.62	11.7			
103	32.93	395.3	2930	0.316	0.798			
104	33.24	395.3	811	0.0840	0.213			
105	33.59	429.8	3386	0.351	0.818			
106	34.77	395.3	15594	0.917	2.32			
107	35.05	395.3	4261	0.298	0.753			
108	35.92	429.8	1405	0.101	0.235			
109	36.16	429.8	22409	3.42	7.95			
110	36.71	429.8	24389	3.41	7.94			
111	37.94	395.3	326	0.0217	0.0549			
112	39.49	429.8	7372	0.392	0.911			
113	40.03	464.2	1314	0.193	0.415			
114	40.98	464.2	934	0.0676	0.146			
115	42.42	429.8	19837	1.29	3.00			
116	43.35	429.8	692	0.0729	0.170			
117	48.56	464.2	8123	0.560	1.21			
118	54.74	498.6	32	0.00289	0.00579			

Total Concentration = 131 ng/mL

Total Nanomoles = 0.465

Average Molecular Weight = 281.8

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.02 minutes

Internal Standard Peak Area = 193702.4

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 13:12:19  
 Lab Sample ID: CCCS1022A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-827-2

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2507	2	6.381	9.529
3	12.83	1:0	002		3	-	-
4	12.94	1:0	003	0.2752	4	3.847	5.745
5	13.54	2:2	004 010	0.2880	2-2; 26	1.845	2.330
6	14.41	2:1	007 009	0.3065	24; 25	0.630	0.796
7	14.72	2:1	006	0.3131	2-3	1.012	1.278
8	14.92	2:1	005 008	0.3173	23; 2-4	8.626	10.896
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019	0.3309	26-2	0.188	0.206
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.30	2:0	012 013	0.3467	34; 3-4	0.146	0.184
14	16.42	2:0 3:2	015 018	0.3492	4-4; 25-2	2.530	2.863
15	16.51	3:2	017	0.3511	24-2	2.525	2.763
16	16.81	3:2	024 027	0.3575	236; 26-3	0.189	0.206
17	17.06	3:2	016 032	0.3628	23-2; 26-4	2.571	2.813
19	17.54	3:1 4:4	023 034 054	0.3730	235; 35-2; 26-26	0.020	0.021
20	17.72	3:1	029	0.3769	245	0.026	0.029
21	17.83	3:1	026	0.3792	25-3	0.455	0.498
22	17.92	3:1	025	0.3811	24-3	0.172	0.188
23	18.12	3:1	031	0.3854	25-4	2.391	2.617
24	18.16	3:1 4:3	028 050	0.3862	24-4; 246-2	2.813	3.078
25	18.52	3:1 4:3	020 021 033 053	0.3939	23-3; 234; 34-2; 25-26	2.458	2.670
26	18.75	3:1 4:3	022 051	0.3988	23-4; 24-26	1.743	1.899
27	18.98	4:3	045	0.4037	236-2	0.533	0.515
28	19.12	3:0	036		35-3	-	-
29	19.26	4:3	046	0.4096	23-26	0.245	0.237
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4158	25-25; 246-3; 26-35	3.348	3.231
32	19.72	4:2	043 049	0.4194	235-2; 24-25	1.383	1.335
33	19.84	4:2	038 047	0.4219	345; 24-24	0.389	0.376
34	19.90	4:2	048 075	0.4232	245-2; 246-4	0.535	0.516
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.12	3:0	035	0.4279	34-3	0.031	0.034
37	20.29	5:4 4:2	104 044	0.4315	246-26; 23-25	2.642	2.549
38	20.42	3:0 4:2	037 042 059	0.4343	34-4; 23-24; 236-3	1.764	1.825
39	20.77	4:2	041 064 071 072	0.4417	234-2; 236-4; 26-34; 25-35	2.320	2.239

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096	0.4451	24-35; 236-26	0.041	0.035
42	21.03	4:2	040	0.4473	23-23	0.579	0.559
43	21.28	4:1 5:3	057 103	0.4526	235-3; 246-25	0.027	0.026
44	21.46	4:1 5:3	058 067 100	0.4564	23-35; 245-3; 246-24	0.056	0.053
45	21.62	4:1	063	0.4598	235-4	0.086	0.083
46	21.79	4:1 5:3	074 094 061	0.4634	245-4; 235-26; 2345	0.807	0.779
47	21.92	4:1	070	0.4662	25-34	1.953	1.885
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088	0.4687	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.022	3.862
49	22.33	4:1 5:3	055 091 121	0.4749	234-3; 236-24; 246-35	0.293	0.254
50	22.65	4:1	056 060	0.4817	23-34; 234-4	1.756	1.695
51	22.88	5:3 6:4	084 092 155	0.4866	236-23; 235-25; 246-246	1.271	1.098
52	22.99	5:3	089	0.4889	234-26	0.052	0.045
53	23.14	5:2	090 101	0.4921	235-24; 245-25	1.117	0.964
54	23.34	5:2	079 099 113	0.4964	34-35; 245-24; 236-35	0.327	0.282
55	23.63	5:2 6:4	119 150	0.5026	246-34; 236-246	0.008	0.007
56	23.71	5:2	078 083 112 108	0.5043	345-3; 235-23; 2356-3; 2346-3	0.092	0.079
57	23.93	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	0.314	0.271
58	24.10	5:2	081 087 117 125 115 145	0.5125	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.715	0.617
59	24.26	5:2	116 085 111	0.5160	23456; 234-24; 235-35	0.308	0.266
60	24.37	6:4	120 136	0.5183	245-35; 236-236	0.330	0.258
61	24.51	5:2	077 110 148	0.5213	34-34; 236-34; 235-246	1.303	1.125
62	24.79	6:3	154		245-246	-	-
63	24.88	5:2	082	0.5291	234-23	0.245	0.211
64	25.17	6:3	151	0.5353	2356-25	1.028	0.803
65	25.31	5:1 6:3	124 135	0.5383	345-25; 235-236	0.163	0.131
66	25.37	6:3	144	0.5396	2346-25	0.328	0.256
67	25.43	5:1 6:3	107 109 147	0.5408	234-35; 235-34; 2356-24	0.064	0.054
68	25.53	5:1	123	0.5430	345-24	0.016	0.014
69	25.62	5:1 6:3	106 118 139 149	0.5449	2345-3; 245-34; 2346-24; 236-245	2.222	1.855
70	25.74	6:3	140		234-246	-	-
71	26.03	5:1 6:3	114 134 143	0.5536	2345-4; 2356-23; 2345-26	0.091	0.074
72	26.23	5:1 6:3	122 131 133 142	0.5578	345-23; 2346-23; 235-235; 23456-2	0.015	0.012
73	26.53	6:2	146 165 188	0.5642	235-245; 2356-35; 2356-246	0.195	0.152
74	26.66	5:1 6:3	105 132 161	0.5670	234-34; 234-236; 2346-35	0.715	0.580
75	26.82	6:2	153	0.5704	245-245	1.631	1.274
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.36	6:2	141	0.5819	2345-25	0.907	0.708
78	27.43	7:4	179	0.5834	2356-236	0.890	0.635
79	27.65	6:2	137	0.5880	2345-24	0.028	0.022
80	27.80	6:2 7:4	130 176	0.5912	234-235; 2346-236	0.129	0.101
82	28.03	6:2	138 163 164	0.5961	234-245; 2356-34; 236-345	1.473	1.150
83	28.21	6:2	158 160 186	0.6000	2346-34; 23456-3; 23456-26	0.128	0.100
84	28.42	6:2	126 129	0.6044	345-34; 2345-23	0.004	0.003
85	28.77	7:3	166 178	0.6119	23456-4; 2356-235	0.636	0.454
87	29.07	7:3	175 159	0.6182	2346-235; 2345-35	0.109	0.078
88	29.23	7:3	182 187	0.6217	2345-246; 2356-245	2.196	1.565
89	29.35	6:2	128 162	0.6242	234-234; 235-345	0.040	0.031
90	29.54	7:3	183	0.6282	2346-245	0.961	0.685
91	29.81	6:1	167	0.6340	245-345	0.009	0.007
92	30.15	7:3	185	0.6412	23456-25	0.254	0.181
93	30.53	7:3	174 181	0.6493	2345-236; 23456-24	1.914	1.368
94	30.81	7:3	177	0.6553	2356-234	0.975	0.697
95	31.12	6:1 7:3	156 171	0.6618	2345-34; 2346-234	0.424	0.313
96	31.38	8:4	157 202	0.6674	234-345; 2356-2356	0.041	0.027
98	31.54	7:3	173	0.6708	23456-23	0.018	0.013
99	31.93	8:4	201	0.6791	2346-2356	0.240	0.157
100	32.18	7:2	172 204	0.6844	2345-235; 23456-246	0.318	0.227
101	32.48	8:4	192 197	0.6908	23456-35; 2346-2346	0.076	0.050
102	32.67	7:2	180	0.6948	2345-245	3.528	2.515
103	32.93	7:2	193	0.7003	2356-345	0.241	0.172
104	33.24	7:2	191	0.7069	2346-345	0.064	0.046
105	33.59	8:4	200 169	0.7144	23456-236; 345-345	0.268	0.176
106	34.77	7:2	170	0.7395	2345-234	0.699	0.499

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.05	7:2	<b>190</b>	0.7454	23456-34	0.227	0.162
108	35.92	8:3	<b>198</b>	0.7639	23456-235	0.077	0.050
109	36.16	8:3	<b>199</b>	0.7690	2345-2356	2.607	1.709
110	36.71	8:3	<b>196 203</b>	0.7807	2345-2346; 23456-245	2.604	1.707
111	37.94	7:1	<b>189</b>	0.8069	2345-345	0.017	0.012
112	39.49	8:3	<b>195</b>	0.8399	23456-234	0.299	0.196
113	40.03	9:4	<b>208</b>	0.8513	23456-2356	0.147	0.089
114	40.98	9:4	<i>207</i>	0.8715	23456-2346	0.052	0.031
115	42.42	8:2	<b>194</b>	0.9022	2345-2345	0.984	0.645
116	43.35	8:2	<b>205</b>	0.9219	23456-345	0.056	0.036
117	48.56	9:3	<b>206</b>	1.033	23456-2345	0.427	0.259
118	54.74	10:4	<i>209</i>	1.164	23456-23456	0.002	0.001

Concentration = 131 ng/mL

Total Nanomoles = 0.465

Average Molecular Weight = 281.8

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

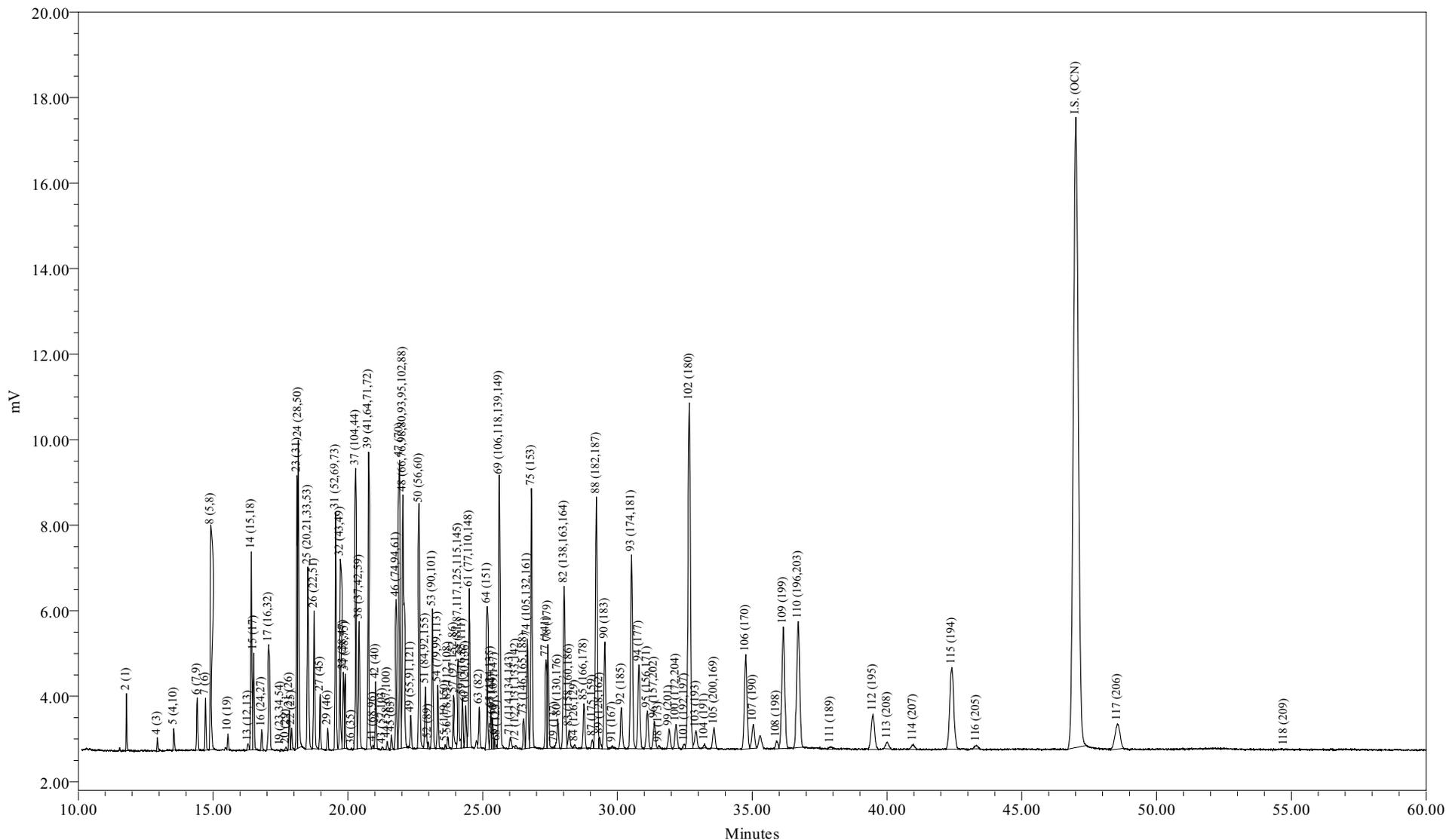
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: CCCS1022B  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 10/22/2009 22:13:38 EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-827-10

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 22:13:38  
 Lab Sample ID: CCCS1022B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-827-10

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 129 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.18	15.19
Di	12.91	16.22
Tri	18.36	20.07
Tetra	21.50	20.80
Penta	8.25	7.07
Hexa	7.76	6.11
Hepta	13.20	9.42
Octa	7.20	4.72
Nona	0.64	0.39
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Biota
A1221	2/001	8.3149	36.9	29.9
A1242	23+24/31+28	6.6608	29.5	24.0
A1254SED	61/100	1.6762	7.43	
A1254BIO	69+75+82/149+153+138	6.8824		24.8
A1260	102/180	4.5747	20.3	16.5
A1268	115/194	1.3323	5.91	4.80

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.12

Total Cl / biphenyl Residue = 3.70

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 22:13:38  
 Lab Sample ID: CCCS1022B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-827-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.79	188.7	2457	8.31	44.1			
3	12.83	188.7		-	-			
4	12.93	188.7	741	4.77	25.3			
5	13.54	223.1	1442	2.29	10.3			
6	14.41	223.1	3765	0.793	3.56			
7	14.72	223.1	2976	1.29	5.77			
8	14.91	223.1	13669	11.3	50.5			
9	15.48	223.1		-	-			
10	15.55	257.5	973	0.260	1.01			
11	16.03	257.5		-	-			
12	16.09	223.1		-	-			
13	16.30	223.1	479	0.164	0.735			
14	16.42	249.0	12778	3.24	13.0			
15	16.51	257.5	6239	3.26	12.7			
16	16.80	257.5	1416	0.245	0.953			
17	17.06	257.5	10998	3.31	12.8			
19	17.50	267.9	212	0.0517	0.193			
20	17.70	257.5	272	0.0388	0.151			
21	17.83	257.5	2548	0.571	2.22			
22	17.91	257.5	1558	0.231	0.896			
23	18.11	257.5	17274	3.21	12.5			
24	18.16	257.5	20413	3.45	13.4			
25	18.52	259.5	14969	3.23	12.5			
26	18.75	258.7	9604	2.26	8.74			
27	18.97	292.0	3590	0.687	2.35			
28	19.12	257.5		-	-			
29	19.25	292.0	1400	0.290	0.994			
30	19.39	257.5		-	-			
31	19.55	292.0	16140	4.31	14.8			
32	19.72	292.0	13075	1.79	6.12			
33	19.83	292.0	5129	0.500	1.71			
34	19.90	292.0	5159	0.683	2.34			
35	20.04	292.0		-	-			
36	20.13	257.5	103	0.0354	0.137			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	20.29	292.0	19553	3.43	11.8			
38	20.42	272.4	10738	2.28	8.36			
39	20.77	292.0	21877	3.00	10.3			
41	20.93	326.4	253	0.0552	0.169			
42	21.03	292.0	4586	0.741	2.54			
43	21.28	298.9	221	0.0353	0.118			
44	21.46	298.9	785	0.0985	0.330			
45	21.62	292.0	1002	0.116	0.398			
46	21.79	292.0	10813	1.05	3.58			
47	21.92	292.0	21365	2.53	8.68			
48	22.04	293.5	28977	5.13	17.5			
49	22.33	324.7	2425	0.347	1.07			
50	22.65	292.0	19021	2.26	7.75			
51	22.88	326.4	5515	1.64	5.02			
52	22.98	326.4	485	0.0637	0.195			
53	23.14	326.4	10301	1.43	4.38			
54	23.34	326.4	4729	0.418	1.28			
55	23.61	326.4	294	0.0149	0.0455			
56	23.71	326.4	828	0.116	0.356			
57	23.92	326.4	4330	0.429	1.32			
58	24.10	326.4	7377	0.937	2.87			
59	24.25	326.4	3878	0.396	1.21			
60	24.37	360.9	3278	0.413	1.14			
61	24.51	326.4	12072	1.68	5.14			
62	24.79	360.9		-	-			
63	24.87	326.4	3197	0.326	0.998			
64	25.17	360.9	10802	1.34	3.73			
65	25.30	350.5	2939	0.219	0.625			
66	25.37	360.9	2341	0.448	1.24			
67	25.43	336.8	677	0.0873	0.259			
68	25.53	326.4	215	0.0270	0.0828			
69	25.62	337.5	25823	2.89	8.57			
70	25.74	360.9		-	-			
71	26.02	347.8	1118	0.108	0.311			
72	26.22	336.8	228	0.0108	0.0319			
73	26.52	360.9	2514	0.248	0.687			
74	26.66	347.8	10486	0.919	2.64			
75	26.81	360.9	23014	2.10	5.81			
76	26.93	360.9		-	-			
77	27.35	360.9	8115	1.18	3.26			
78	27.42	395.3	9401	1.10	2.79			
79	27.67	360.9	140	0.0158	0.0438			
80	27.79	360.9	3041	0.161	0.447			
82	28.02	360.9	18971	1.89	5.25			
83	28.21	360.9	2010	0.156	0.431			
84	28.42	360.9	304	0.00424	0.0118			
85	28.76	395.3	4397	0.781	1.98			
87	29.07	395.3	901	0.130	0.328			
88	29.22	395.3	27886	2.83	7.15			
89	29.34	360.9	1172	0.0704	0.195			
90	29.53	395.3	11773	1.24	3.13			
91	29.81	360.9	212	0.0117	0.0324			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	30.15	394.3	4867	0.349	0.884			
93	30.52	394.3	23376	2.45	6.21			
94	30.80	394.3	10502	1.24	3.15			
95	31.11	382.2	4856	0.536	1.40			
96	31.37	429.8	3411	0.0537	0.125			
98	31.54	395.3	321	0.0237	0.0599			
99	31.92	429.8	2441	0.288	0.671			
100	32.18	395.3	3152	0.381	0.965			
101	32.48	429.8	546	0.0654	0.152			
102	32.67	395.3	49952	4.57	11.6			
103	32.91	395.3	2605	0.289	0.731			
104	33.23	395.3	427	0.0455	0.115			
105	33.59	429.8	2891	0.309	0.719			
106	34.76	395.3	14925	0.903	2.29			
107	35.04	395.3	3954	0.284	0.720			
108	35.90	429.8	1124	0.0826	0.192			
109	36.15	429.8	21247	3.34	7.76			
110	36.71	429.8	22995	3.31	7.71			
111	37.91	395.3	437	0.0301	0.0760			
112	39.48	429.8	7431	0.407	0.946			
113	40.01	464.2	1301	0.197	0.423			
114	40.98	464.2	987	0.0735	0.158			
115	42.41	429.8	19890	1.33	3.10			
116	43.32	429.8	697	0.0755	0.176			
117	48.55	464.2	7720	0.548	1.18			
118	54.74	498.6	30	0.00275	0.00552			

Total Concentration = 129 ng/mL

Total Nanomoles = 0.457

Average Molecular Weight = 281.7

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 47.00 minutes

Internal Standard Peak Area = 188135.8

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 22:13:38  
 Lab Sample ID: CCCS1022B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC16-827-10

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001	0.2509	2	6.464	9.651
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003	0.2751	4	3.712	5.542
5	13.54	2:2	004 010	0.2881	2-2; 26	1.780	2.248
6	14.41	2:1	007 009	0.3066	24; 25	0.617	0.779
7	14.72	2:1	006	0.3132	2-3	1.001	1.264
8	14.91	2:1	005 008	0.3172	23; 2-4	8.759	11.061
9	15.48	2:0	014		35	-	-
10	15.55	3:3	019	0.3309	26-2	0.202	0.221
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.30	2:0	012 013	0.3468	34; 3-4	0.127	0.161
14	16.42	2:0 3:2	015 018	0.3494	4-4; 25-2	2.520	2.852
15	16.51	3:2	017	0.3513	24-2	2.535	2.774
16	16.80	3:2	024 027	0.3574	236; 26-3	0.191	0.209
17	17.06	3:2	016 032	0.3630	23-2; 26-4	2.570	2.812
19	17.50	3:1 4:4	023 034 054	0.3723	235; 35-2; 26-26	0.040	0.042
20	17.70	3:1	029	0.3766	245	0.030	0.033
21	17.83	3:1	026	0.3794	25-3	0.444	0.485
22	17.91	3:1	025	0.3811	24-3	0.179	0.196
23	18.11	3:1	031	0.3853	25-4	2.498	2.733
24	18.16	3:1 4:3	028 050	0.3864	24-4; 246-2	2.681	2.933
25	18.52	3:1 4:3	020 021 033 053	0.3940	23-3; 234; 34-2; 25-26	2.514	2.730
26	18.75	3:1 4:3	022 051	0.3989	23-4; 24-26	1.758	1.914
27	18.97	4:3	045	0.4036	236-2	0.534	0.515
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4096	23-26	0.226	0.218
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4160	25-25; 246-3; 26-35	3.349	3.231
32	19.72	4:2	043 049	0.4196	235-2; 24-25	1.390	1.341
33	19.83	4:2	038 047	0.4219	345; 24-24	0.389	0.375
34	19.90	4:2	048 075	0.4234	245-2; 246-4	0.531	0.512
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035	0.4283	34-3	0.027	0.030
37	20.29	5:4 4:2	104 044	0.4317	246-26; 23-25	2.668	2.574
38	20.42	3:0 4:2	037 042 059	0.4345	34-4; 23-24; 236-3	1.771	1.832
39	20.77	4:2	041 064 071 072	0.4419	234-2; 236-4; 26-34; 25-35	2.329	2.247

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096	0.4453	24-35; 236-26	0.043	0.037
42	21.03	4:2	040	0.4474	23-23	0.576	0.556
43	21.28	4:1 5:3	057 103	0.4528	235-3; 246-25	0.027	0.026
44	21.46	4:1 5:3	058 067 100	0.4566	23-35; 245-3; 246-24	0.077	0.072
45	21.62	4:1	063	0.4600	235-4	0.090	0.087
46	21.79	4:1 5:3	074 094 061	0.4636	245-4; 235-26; 2345	0.812	0.784
47	21.92	4:1	070	0.4664	25-34	1.970	1.900
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088	0.4689	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.990	3.830
49	22.33	4:1 5:3	055 091 121	0.4751	234-3; 236-24; 246-35	0.269	0.234
50	22.65	4:1	056 060	0.4819	23-34; 234-4	1.760	1.698
51	22.88	5:3 6:4	084 092 155	0.4868	236-23; 235-25; 246-246	1.274	1.099
52	22.98	5:3	089	0.4889	234-26	0.050	0.043
53	23.14	5:2	090 101	0.4923	235-24; 245-25	1.112	0.960
54	23.34	5:2	079 099 113	0.4966	34-35; 245-24; 236-35	0.325	0.280
55	23.61	5:2 6:4	119 150	0.5023	246-34; 236-246	0.012	0.010
56	23.71	5:2	078 083 112 108	0.5045	345-3; 235-23; 2356-3; 2346-3	0.090	0.078
57	23.92	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	0.334	0.288
58	24.10	5:2	081 087 117 125 115 145	0.5128	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.729	0.629
59	24.25	5:2	116 085 111	0.5160	23456; 234-24; 235-35	0.308	0.266
60	24.37	6:4	120 136	0.5185	245-35; 236-236	0.321	0.251
61	24.51	5:2	077 110 148	0.5215	34-34; 236-34; 235-246	1.303	1.125
62	24.79	6:3	154		245-246	-	-
63	24.87	5:2	082	0.5291	234-23	0.253	0.218
64	25.17	6:3	151	0.5355	2356-25	1.045	0.816
65	25.30	5:1 6:3	124 135	0.5383	345-25; 235-236	0.170	0.137
66	25.37	6:3	144	0.5398	2346-25	0.349	0.272
67	25.43	5:1 6:3	107 109 147	0.5411	234-35; 235-34; 2356-24	0.068	0.057
68	25.53	5:1	123	0.5432	345-24	0.021	0.018
69	25.62	5:1 6:3	106 118 139 149	0.5451	2345-3; 245-34; 2346-24; 236-245	2.248	1.877
70	25.74	6:3	140		234-246	-	-
71	26.02	5:1 6:3	114 134 143	0.5536	2345-4; 2356-23; 2345-26	0.084	0.068
72	26.22	5:1 6:3	122 131 133 142	0.5579	345-23; 2346-23; 235-235; 23456-2	0.008	0.007
73	26.52	6:2	146 165 188	0.5643	235-245; 2356-35; 2356-246	0.193	0.151
74	26.66	5:1 6:3	105 132 161	0.5672	234-34; 234-236; 2346-35	0.714	0.579
75	26.81	6:2	153	0.5704	245-245	1.630	1.272
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141	0.5819	2345-25	0.914	0.714
78	27.42	7:4	179	0.5834	2356-236	0.857	0.611
79	27.67	6:2	137	0.5887	2345-24	0.012	0.010
80	27.79	6:2 7:4	130 176	0.5913	234-235; 2346-236	0.126	0.098
82	28.02	6:2	138 163 164	0.5962	234-245; 2356-34; 236-345	1.472	1.149
83	28.21	6:2	158 160 186	0.6002	2346-34; 23456-3; 23456-26	0.121	0.094
84	28.42	6:2	126 129	0.6047	345-34; 2345-23	0.003	0.003
85	28.76	7:3	166 178	0.6119	23456-4; 2356-235	0.607	0.433
87	29.07	7:3	175 159	0.6185	2346-235; 2345-35	0.101	0.072
88	29.22	7:3	182 187	0.6217	2345-246; 2356-245	2.196	1.565
89	29.34	6:2	128 162	0.6243	234-234; 235-345	0.055	0.043
90	29.53	7:3	183	0.6283	2346-245	0.961	0.685
91	29.81	6:1	167	0.6343	245-345	0.009	0.007
92	30.15	7:3	185	0.6415	23456-25	0.271	0.194
93	30.52	7:3	174 181	0.6494	2345-236; 23456-24	1.903	1.359
94	30.80	7:3	177	0.6553	2356-234	0.967	0.691
95	31.11	6:1 7:3	156 171	0.6619	2345-34; 2346-234	0.417	0.307
96	31.37	8:4	157 202	0.6674	234-345; 2356-2356	0.042	0.027
98	31.54	7:3	173	0.6711	23456-23	0.018	0.013
99	31.92	8:4	201	0.6791	2346-2356	0.224	0.147
100	32.18	7:2	172 204	0.6847	2345-235; 23456-246	0.296	0.211
101	32.48	8:4	192 197	0.6911	23456-35; 2346-2346	0.051	0.033
102	32.67	7:2	180	0.6951	2345-245	3.556	2.535
103	32.91	7:2	193	0.7002	2356-345	0.225	0.160
104	33.23	7:2	191	0.7070	2346-345	0.035	0.025
105	33.59	8:4	200 169	0.7147	23456-236; 345-345	0.240	0.157
106	34.76	7:2	170	0.7396	2345-234	0.702	0.501

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>	0.7455	23456-34	0.221	0.158
108	35.90	8:3	<b>198</b>	0.7638	23456-235	0.064	0.042
109	36.15	8:3	<b>199</b>	0.7691	2345-2356	2.594	1.700
110	36.71	8:3	<b>196 203</b>	0.7811	2345-2346; 23456-245	2.575	1.688
111	37.91	7:1	<b>189</b>	0.8066	2345-345	0.023	0.017
112	39.48	8:3	<b>195</b>	0.8400	23456-234	0.316	0.207
113	40.01	9:4	<b>208</b>	0.8513	23456-2356	0.153	0.093
114	40.98	9:4	<b>207</b>	0.8719	23456-2346	0.057	0.035
115	42.41	8:2	<b>194</b>	0.9023	2345-2345	1.036	0.679
116	43.32	8:2	<b>205</b>	0.9217	23456-345	0.059	0.038
117	48.55	9:3	<b>206</b>	1.033	23456-2345	0.426	0.258
118	54.74	10:4	<b>209</b>	1.165	23456-23456	0.002	0.001

Concentration = 129 ng/mL

Total Nanomoles = 0.457

Average Molecular Weight = 281.7

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Sample Name: CCCS1022A Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 10/22/2009 13:12:19 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 10/22/2009 14:29:51  
Sample Set Name: GC16\_102209c User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_082309 Current Time: 23:06:00  
Run Time: 60 Minutes Current Date: 10/23/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-827-2

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2544	8.364	8.364
2	4 (3)	12.94	806	5.043	5.043
3	5 (4,10)	13.54	1569	2.418	2.418
4	6 (7,9)	14.41	4040	0.826	0.826
5	7 (6)	14.72	3155	1.326	1.326
6	8 (5,8)	14.92	14124	11.308	11.308
7	10 (19)	15.56	953	0.247	0.247
8	13 (12,13)	16.30	576	0.191	0.191
9	14 (15,18)	16.42	13455	3.316	3.316
10	15 (17)	16.51	6519	3.309	3.309
11	16 (24,27)	16.81	1468	0.247	0.247
12	17 (16,32)	17.06	11540	3.370	3.370
13	19 (23,34,54)	17.54	109	0.026	0.026
14	20 (29)	17.72	251	0.035	0.035
15	21 (26)	17.83	2746	0.597	0.597
16	22 (25)	17.92	1564	0.225	0.225
17	23 (31)	18.12	17355	3.134	3.134
18	24 (28,50)	18.16	22466	3.687	3.687
19	25 (20,21,33,53)	18.52	15357	3.222	3.222
20	26 (22,51)	18.75	9992	2.285	2.285
21	27 (45)	18.98	3765	0.699	0.699
22	29 (46)	19.26	1596	0.322	0.322
23	31 (52,69,73)	19.55	16932	4.389	4.389
24	32 (43,49)	19.72	13647	1.813	1.813
25	33 (38,47)	19.84	5384	0.510	0.510
26	34 (48,75)	19.90	5448	0.701	0.701
27	36 (35)	20.12	123	0.041	0.041
28	37 (104,44)	20.29	20315	3.463	3.463
29	38 (37,42,59)	20.42	11222	2.313	2.313
30	39 (41,64,71,72)	20.77	22862	3.041	3.041
31	41 (68,96)	20.93	254	0.054	0.054
32	42 (40)	21.03	4836	0.759	0.759
33	43 (57,103)	21.28	231	0.036	0.036

34	44 (58,67,100)	21.46	605	0.074	0.074
35	45 (63)	21.62	995	0.112	0.112
36	46 (74,94,61)	21.79	11274	1.058	1.058
37	47 (70)	21.92	22228	2.560	2.560
38	48 (66,76,98,80,93,95,	22.04	30644	5.272	5.272
39	49 (55,91,121)	22.33	2769	0.384	0.384
40	50 (56,60)	22.65	19914	2.302	2.302
41	51 (84,92,155)	22.88	5775	1.666	1.666
42	52 (89)	22.99	536	0.068	0.068
43	53 (90,101)	23.14	10856	1.464	1.464
44	54 (79,99,113)	23.34	4997	0.428	0.428
45	55 (119,150)	23.63	216	0.011	0.011
46	56 (78,83,112,108)	23.71	883	0.120	0.120
47	57 (97,152,86)	23.93	4278	0.412	0.412
48	58 (81,87,117,125,115	24.10	7594	0.937	0.937
49	59 (116,85,111)	24.26	4076	0.404	0.404
50	60 (120,136)	24.37	3539	0.433	0.433
51	61 (77,110,148)	24.51	12667	1.708	1.708
52	63 (82)	24.88	3242	0.321	0.321
53	64 (151)	25.17	11148	1.348	1.348
54	65 (124,135)	25.31	2949	0.213	0.213
55	66 (144)	25.37	2308	0.429	0.429
56	67 (107,109,147)	25.43	675	0.085	0.085
57	68 (123)	25.53	170	0.021	0.021
58	69 (106,118,139,149)	25.62	26777	2.913	2.913
59	71 (114,134,143)	26.03	1273	0.120	0.120
60	72 (122,131,133,142)	26.23	422	0.019	0.019
61	73 (146,165,188)	26.53	2667	0.256	0.256
62	74 (105,132,161)	26.66	11020	0.938	0.938
63	75 (153)	26.82	24168	2.138	2.138
64	77 (141)	27.36	8451	1.189	1.189
65	78 (179)	27.43	10247	1.167	1.167
66	79 (137)	27.65	327	0.036	0.036
67	80 (130,176)	27.80	3289	0.170	0.170
68	82 (138,163,164)	28.03	19910	1.931	1.931
69	83 (158,160,186)	28.21	2222	0.167	0.167
70	84 (126,129)	28.42	423	0.006	0.006
71	85 (166,178)	28.77	4835	0.834	0.834
72	87 (175,159)	29.07	1026	0.143	0.143
73	88 (182,187)	29.23	29249	2.878	2.878
74	89 (128,162)	29.35	898	0.053	0.053
75	90 (183)	29.54	12355	1.260	1.260
76	91 (167)	29.81	208	0.011	0.011
77	92 (185)	30.15	4783	0.333	0.333
78	93 (174,181)	30.53	24671	2.509	2.509
79	94 (177)	30.81	11109	1.278	1.278
80	95 (156,171)	31.12	5189	0.556	0.556
81	96 (157,202)	31.38	3544	0.054	0.054
82	98 (173)	31.54	328	0.023	0.023
83	99 (201)	31.93	2738	0.314	0.314
84	100 (172,204)	32.18	3545	0.417	0.417

85	101 (192,197)	32.48	848	0.099	0.099
86	102 (180)	32.67	51986	4.625	4.625
87	103 (193)	32.93	2930	0.316	0.316
88	104 (191)	33.24	811	0.084	0.084
89	105 (200,169)	33.59	3386	0.351	0.351
90	106 (170)	34.77	15594	0.917	0.917
91	107 (190)	35.05	4261	0.298	0.298
92	108 (198)	35.92	1405	0.101	0.101
93	109 (199)	36.16	22409	3.418	3.418
94	110 (196,203)	36.71	24389	3.413	3.413
95	111 (189)	37.94	326	0.022	0.022
96	112 (195)	39.49	7372	0.392	0.392
97	113 (208)	40.03	1314	0.193	0.193
98	114 (207)	40.98	934	0.068	0.068
99	115 (194)	42.42	19837	1.290	1.290
100	116 (205)	43.35	692	0.073	0.073
101	117 (206)	48.56	8123	0.560	0.560
102	118 (209)	54.74	32	0.003	0.003
103	Sum			131.084	131.084



Sample Name: CCCS1022B Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 10/22/2009 22:13:38 Extract Volume: 1  
Project Name: GC16\_May\_2009 Date Processed: 10/22/2009 23:41:25  
Sample Set Name: GC16\_102209c User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_082309 Current Time: 23:06:02  
Run Time: 60 Minutes Current Date: 10/23/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC16-827-10

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.79	2457	8.315	8.315
2	4 (3)	12.93	741	4.775	4.775
3	5 (4,10)	13.54	1442	2.290	2.290
4	6 (7,9)	14.41	3765	0.793	0.793
5	7 (6)	14.72	2976	1.287	1.287
6	8 (5,8)	14.91	13669	11.267	11.267
7	10 (19)	15.55	973	0.260	0.260
8	13 (12,13)	16.30	479	0.164	0.164
9	14 (15,18)	16.42	12778	3.242	3.242
10	15 (17)	16.51	6239	3.261	3.261
11	16 (24,27)	16.80	1416	0.245	0.245
12	17 (16,32)	17.06	10998	3.306	3.306
13	19 (23,34,54)	17.50	212	0.052	0.052
14	20 (29)	17.70	272	0.039	0.039
15	21 (26)	17.83	2548	0.571	0.571
16	22 (25)	17.91	1558	0.231	0.231
17	23 (31)	18.11	17274	3.213	3.213
18	24 (28,50)	18.16	20413	3.448	3.448
19	25 (20,21,33,53)	18.52	14969	3.234	3.234
20	26 (22,51)	18.75	9604	2.261	2.261
21	27 (45)	18.97	3590	0.687	0.687
22	29 (46)	19.25	1400	0.290	0.290
23	31 (52,69,73)	19.55	16140	4.307	4.307
24	32 (43,49)	19.72	13075	1.788	1.788
25	33 (38,47)	19.83	5129	0.500	0.500
26	34 (48,75)	19.90	5159	0.683	0.683
27	36 (35)	20.13	103	0.035	0.035
28	37 (104,44)	20.29	19553	3.431	3.431
29	38 (37,42,59)	20.42	10738	2.278	2.278
30	39 (41,64,71,72)	20.77	21877	2.996	2.996
31	41 (68,96)	20.93	253	0.055	0.055
32	42 (40)	21.03	4586	0.741	0.741
33	43 (57,103)	21.28	221	0.035	0.035

34	44 (58,67,100)	21.46	785	0.098	0.098
35	45 (63)	21.62	1002	0.116	0.116
36	46 (74,94,61)	21.79	10813	1.045	1.045
37	47 (70)	21.92	21365	2.533	2.533
38	48 (66,76,98,80,93,95,	22.04	28977	5.132	5.132
39	49 (55,91,121)	22.33	2425	0.347	0.347
40	50 (56,60)	22.65	19021	2.263	2.263
41	51 (84,92,155)	22.88	5515	1.638	1.638
42	52 (89)	22.98	485	0.064	0.064
43	53 (90,101)	23.14	10301	1.431	1.431
44	54 (79,99,113)	23.34	4729	0.418	0.418
45	55 (119,150)	23.61	294	0.015	0.015
46	56 (78,83,112,108)	23.71	828	0.116	0.116
47	57 (97,152,86)	23.92	4330	0.429	0.429
48	58 (81,87,117,125,115	24.10	7377	0.937	0.937
49	59 (116,85,111)	24.25	3878	0.396	0.396
50	60 (120,136)	24.37	3278	0.413	0.413
51	61 (77,110,148)	24.51	12072	1.676	1.676
52	63 (82)	24.87	3197	0.326	0.326
53	64 (151)	25.17	10802	1.345	1.345
54	65 (124,135)	25.30	2939	0.219	0.219
55	66 (144)	25.37	2341	0.448	0.448
56	67 (107,109,147)	25.43	677	0.087	0.087
57	68 (123)	25.53	215	0.027	0.027
58	69 (106,118,139,149)	25.62	25823	2.892	2.892
59	71 (114,134,143)	26.02	1118	0.108	0.108
60	72 (122,131,133,142)	26.22	228	0.011	0.011
61	73 (146,165,188)	26.52	2514	0.248	0.248
62	74 (105,132,161)	26.66	10486	0.919	0.919
63	75 (153)	26.81	23014	2.096	2.096
64	77 (141)	27.35	8115	1.176	1.176
65	78 (179)	27.42	9401	1.102	1.102
66	79 (137)	27.67	140	0.016	0.016
67	80 (130,176)	27.79	3041	0.161	0.161
68	82 (138,163,164)	28.02	18971	1.894	1.894
69	83 (158,160,186)	28.21	2010	0.156	0.156
70	84 (126,129)	28.42	304	0.004	0.004
71	85 (166,178)	28.76	4397	0.781	0.781
72	87 (175,159)	29.07	901	0.130	0.130
73	88 (182,187)	29.22	27886	2.825	2.825
74	89 (128,162)	29.34	1172	0.070	0.070
75	90 (183)	29.53	11773	1.236	1.236
76	91 (167)	29.81	212	0.012	0.012
77	92 (185)	30.15	4867	0.349	0.349
78	93 (174,181)	30.52	23376	2.447	2.447
79	94 (177)	30.80	10502	1.244	1.244
80	95 (156,171)	31.11	4856	0.536	0.536
81	96 (157,202)	31.37	3411	0.054	0.054
82	98 (173)	31.54	321	0.024	0.024
83	99 (201)	31.92	2441	0.288	0.288
84	100 (172,204)	32.18	3152	0.381	0.381

85	101 (192,197)	32.48	546	0.065	0.065
86	102 (180)	32.67	49952	4.575	4.575
87	103 (193)	32.91	2605	0.289	0.289
88	104 (191)	33.23	427	0.046	0.046
89	105 (200,169)	33.59	2891	0.309	0.309
90	106 (170)	34.76	14925	0.903	0.903
91	107 (190)	35.04	3954	0.284	0.284
92	108 (198)	35.90	1124	0.083	0.083
93	109 (199)	36.15	21247	3.336	3.336
94	110 (196,203)	36.71	22995	3.312	3.312
95	111 (189)	37.91	437	0.030	0.030
96	112 (195)	39.48	7431	0.407	0.407
97	113 (208)	40.01	1301	0.197	0.197
98	114 (207)	40.98	987	0.074	0.074
99	115 (194)	42.41	19890	1.332	1.332
100	116 (205)	43.32	697	0.076	0.076
101	117 (206)	48.55	7720	0.548	0.548
102	118 (209)	54.74	30	0.003	0.003
103	Sum			128.630	128.630

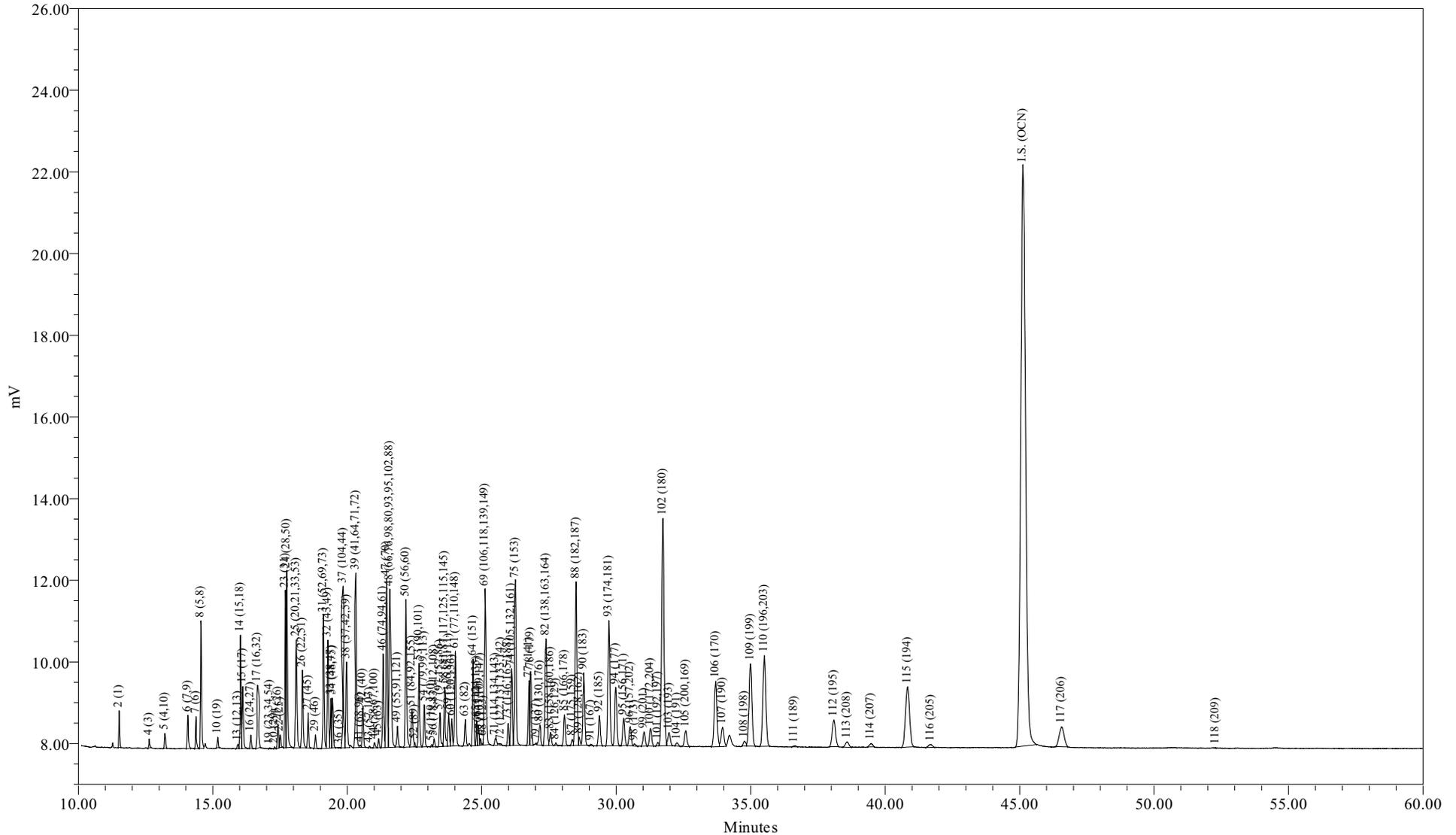
# Standards Raw Data (GC-24)



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: CCCS1022C  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 10/22/2009 22:54:10 EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-11

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 22:54:10  
 Lab Sample ID: CCCS1022C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-204-11

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 116 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.84	16.18
Di	12.40	15.57
Tri	17.81	19.46
Tetra	21.31	20.62
Penta	8.38	7.19
Hexa	8.09	6.37
Hepta	13.30	9.49
Octa	7.24	4.75
Nona	0.64	0.39
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.9178	39.0	31.6
A1242	23+24/31+28	5.7142	28.1	22.8
A1254SED	61/100	1.4166	6.98	
A1254BIO	69+75+82/149+153+138	6.2022		24.7
A1260	102/180	4.0296	19.8	16.1
A1268	115/194	1.2275	6.05	4.89

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.12

Total Cl / biphenyl Residue = 3.70

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 22:54:10  
 Lab Sample ID: CCCS1022C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-204-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.52	188.7	1719	7.92	42.0			
3	12.52	188.7		-	-			
4	12.64	188.7	507	4.67	24.8			
5	13.22	223.1	1076	2.10	9.42			
6	14.07	223.1	2627	0.729	3.27			
7	14.38	223.1	2082	1.23	5.50			
8	14.56	223.1	8752	9.45	42.3			
9	15.11	223.1		-	-			
10	15.18	257.5	629	0.231	0.895			
11	15.64	257.5		-	-			
12	15.72	223.1		-	-			
13	15.93	223.1	390	0.169	0.757			
14	16.03	249.0	7779	2.92	11.7			
15	16.12	257.5	4829	2.79	10.8			
16	16.41	257.5	934	0.205	0.798			
17	16.66	257.5	7174	2.89	11.2			
19	17.12	267.9	60	0.0200	0.0746			
20	17.30	257.5	93	0.0222	0.0861			
21	17.42	257.5	1694	0.541	2.10			
22	17.51	257.5	898	0.203	0.789			
23	17.70	257.5	10071	2.73	10.6			
24	17.75	257.5	13988	2.98	11.6			
25	18.10	259.5	9790	2.88	11.1			
26	18.33	258.7	6533	1.99	7.71			
27	18.55	292.0	2533	0.673	2.30			
28	18.69	257.5		-	-			
29	18.82	292.0	999	0.304	1.04			
30	18.96	257.5		-	-			
31	19.11	292.0	10429	3.87	13.3			
32	19.28	292.0	8564	1.60	5.49			
33	19.40	292.0	3601	0.468	1.60			
34	19.46	292.0	3841	0.674	2.31			
35	19.59	292.0		-	-			
36	19.71	257.5	22	0.00959	0.0373			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.84	292.0	12351	2.97	10.2			
38	19.97	272.4	7468	2.14	7.87			
39	20.32	292.0	14027	2.60	8.91			
41	20.47	326.4	201	0.0620	0.190			
42	20.58	292.0	3209	0.692	2.37			
43	20.82	298.9	113	0.0247	0.0827			
44	21.01	298.9	479	0.0800	0.268			
45	21.17	292.0	716	0.120	0.413			
46	21.33	292.0	7548	0.956	3.27			
47	21.46	292.0	14251	2.25	7.69			
48	21.58	293.5	19438	4.53	15.4			
49	21.87	324.7	1858	0.358	1.10			
50	22.18	292.0	12845	1.99	6.81			
51	22.41	326.4	3956	1.55	4.74			
52	22.51	326.4	276	0.0524	0.160			
53	22.67	326.4	7134	1.31	4.01			
54	22.86	326.4	3478	0.411	1.26			
55	23.14	326.4	161	0.0135	0.0413			
56	23.23	326.4	619	0.127	0.391			
57	23.45	326.4	2972	0.415	1.27			
58	23.62	326.4	5159	0.866	2.65			
59	23.77	326.4	2828	0.376	1.15			
60	23.88	360.9	2197	0.509	1.41			
61	24.02	326.4	8549	1.42	4.34			
62	24.29	360.9		-	-			
63	24.39	326.4	2370	0.320	0.981			
64	24.68	360.9	7179	1.20	3.33			
65	24.81	350.5	1999	0.204	0.582			
66	24.88	360.9	1596	0.398	1.10			
67	24.95	336.8	481	0.0800	0.238			
68	25.06	326.4	123	0.0197	0.0604			
69	25.12	337.5	17020	2.54	7.53			
70	25.24	360.9		-	-			
71	25.51	347.8	881	0.135	0.389			
72	25.71	336.8	172	0.0167	0.0496			
73	25.98	360.9	1881	0.261	0.725			
74	26.11	347.8	7425	0.855	2.46			
75	26.25	360.9	15789	1.93	5.35			
76	26.37	360.9		-	-			
77	26.77	360.9	5624	1.13	3.13			
78	26.82	395.3	6579	1.03	2.62			
79	27.04	360.9	148	0.0237	0.0655			
80	27.16	360.9	2222	0.165	0.458			
82	27.39	360.9	13268	1.73	4.79			
83	27.56	360.9	1437	0.165	0.457			
84	27.76	360.9	198	0.00967	0.0268			
85	28.08	395.3	3349	0.809	2.05			
87	28.36	395.3	625	0.138	0.349			
88	28.51	395.3	18569	2.49	6.30			
89	28.63	360.9	736	0.0592	0.164			
90	28.80	395.3	8292	1.13	2.86			
91	29.06	360.9	205	0.0309	0.0856			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.37	394.3	3583	0.332	0.841			
93	29.73	394.3	15997	2.17	5.50			
94	29.98	394.3	7610	1.14	2.89			
95	30.28	382.2	3508	0.490	1.28			
96	30.52	429.8	2513	0.0482	0.112			
98	30.68	395.3	281	0.0297	0.0751			
99	31.03	429.8	1924	0.281	0.653			
100	31.28	395.3	2441	0.371	0.938			
101	31.55	429.8	407	0.0672	0.156			
102	31.74	395.3	34659	4.03	10.2			
103	31.96	395.3	2039	0.267	0.676			
104	32.27	395.3	486	0.0686	0.173			
105	32.59	429.8	2494	0.314	0.731			
106	33.70	395.3	11443	0.840	2.13			
107	33.96	395.3	3379	0.280	0.710			
108	34.77	429.8	764	0.0661	0.154			
109	35.00	429.8	15591	2.98	6.94			
110	35.51	429.8	17203	3.00	6.97			
111	36.62	395.3	192	0.0173	0.0438			
112	38.09	429.8	5561	0.349	0.813			
113	38.58	464.2	1155	0.191	0.412			
114	39.47	464.2	653	0.0567	0.122			
115	40.84	429.8	15676	1.23	2.86			
116	41.70	429.8	725	0.0754	0.175			
117	46.56	464.2	6079	0.490	1.06			
118	52.30	498.6	13	0.00102	0.00204			

Total Concentration = 116 ng/mL

Total Nanomoles = 0.412

Average Molecular Weight = 281.7

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.12 minutes

Internal Standard Peak Area = 178997.9

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 22:54:10  
 Lab Sample ID: CCCS1022C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-204-11

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.52	1:1	001	0.2553	2	6.817	10.176
3	12.52	1:0	002		3	-	-
4	12.64	1:0	003	0.2801	4	4.023	6.006
5	13.22	2:2	004 010	0.2930	2-2; 26	1.810	2.285
6	14.07	2:1	007 009	0.3118	24; 25	0.628	0.793
7	14.38	2:1	006	0.3187	2-3	1.056	1.333
8	14.56	2:1	005 008	0.3227	23; 2-4	8.133	10.269
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3364	26-2	0.199	0.217
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.93	2:0	012 013	0.3531	34; 3-4	0.145	0.184
14	16.03	2:0 3:2	015 018	0.3553	4-4; 25-2	2.513	2.843
15	16.12	3:2	017	0.3573	24-2	2.403	2.629
16	16.41	3:2	024 027	0.3637	236; 26-3	0.177	0.193
17	16.66	3:2	016 032	0.3692	23-2; 26-4	2.490	2.724
19	17.12	3:1 4:4	023 034 054	0.3794	235; 35-2; 26-26	0.017	0.018
20	17.30	3:1	029	0.3834	245	0.019	0.021
21	17.42	3:1	026	0.3861	25-3	0.466	0.509
22	17.51	3:1	025	0.3881	24-3	0.175	0.191
23	17.70	3:1	031	0.3923	25-4	2.352	2.573
24	17.75	3:1 4:3	028 050	0.3934	24-4; 246-2	2.567	2.809
25	18.10	3:1 4:3	020 021 033 053	0.4012	23-3; 234; 34-2; 25-26	2.478	2.690
26	18.33	3:1 4:3	022 051	0.4063	23-4; 24-26	1.717	1.869
27	18.55	4:3	045	0.4111	236-2	0.579	0.559
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046	0.4171	23-26	0.262	0.252
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4235	25-25; 246-3; 26-35	3.334	3.217
32	19.28	4:2	043 049	0.4273	235-2; 24-25	1.380	1.331
33	19.40	4:2	038 047	0.4300	345; 24-24	0.403	0.389
34	19.46	4:2	048 075	0.4313	245-2; 246-4	0.580	0.560
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.71	3:0	035	0.4368	34-3	0.008	0.009
37	19.84	5:4 4:2	104 044	0.4397	246-26; 23-25	2.554	2.464
38	19.97	3:0 4:2	037 042 059	0.4426	34-4; 23-24; 236-3	1.846	1.909
39	20.32	4:2	041 064 071 072	0.4504	234-2; 236-4; 26-34; 25-35	2.239	2.160

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096	0.4537	24-35; 236-26	0.053	0.046
42	20.58	4:2	040	0.4561	23-23	0.596	0.575
43	20.82	4:1 5:3	057 103	0.4614	235-3; 246-25	0.021	0.020
44	21.01	4:1 5:3	058 067 100	0.4656	23-35; 245-3; 246-24	0.069	0.065
45	21.17	4:1	063	0.4692	235-4	0.104	0.100
46	21.33	4:1 5:3	074 094 061	0.4727	245-4; 235-26; 2345	0.823	0.794
47	21.46	4:1	070	0.4756	25-34	1.934	1.866
48	21.58	4:1 5:3	066 076 098 080 093 095 102 088	0.4783	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.901	3.744
49	21.87	4:1 5:3	055 091 121	0.4847	234-3; 236-24; 246-35	0.309	0.268
50	22.18	4:1	056 060	0.4916	23-34; 234-4	1.712	1.651
51	22.41	5:3 6:4	084 092 155	0.4967	236-23; 235-25; 246-246	1.332	1.150
52	22.51	5:3	089	0.4989	234-26	0.045	0.039
53	22.67	5:2	090 101	0.5024	235-24; 245-25	1.127	0.972
54	22.86	5:2	079 099 113	0.5066	34-35; 245-24; 236-35	0.354	0.306
55	23.14	5:2 6:4	119 150	0.5129	246-34; 236-246	0.012	0.010
56	23.23	5:2	078 083 112 108	0.5148	345-3; 235-23; 2356-3; 2346-3	0.110	0.095
57	23.45	5:2 6:4	097 152 086	0.5197	245-23; 2356-26; 2345-2	0.358	0.309
58	23.62	5:2	081 087 117 125 115 145	0.5235	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.745	0.643
59	23.77	5:2	116 085 111	0.5268	23456; 234-24; 235-35	0.323	0.279
60	23.88	6:4	120 136	0.5293	245-35; 236-236	0.438	0.342
61	24.02	5:2	077 110 148	0.5324	34-34; 236-34; 235-246	1.220	1.053
62	24.29	6:3	154		245-246	-	-
63	24.39	5:2	082	0.5406	234-23	0.276	0.238
64	24.68	6:3	151	0.5470	2356-25	1.034	0.807
65	24.81	5:1 6:3	124 135	0.5499	345-25; 235-236	0.175	0.141
66	24.88	6:3	144	0.5514	2346-25	0.342	0.267
67	24.95	5:1 6:3	107 109 147	0.5530	234-35; 235-34; 2356-24	0.069	0.058
68	25.06	5:1	123	0.5554	345-24	0.017	0.015
69	25.12	5:1 6:3	106 118 139 149	0.5567	2345-3; 245-34; 2346-24; 236-245	2.189	1.827
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143	0.5654	2345-4; 2356-23; 2345-26	0.117	0.094
72	25.71	5:1 6:3	122 131 133 142	0.5698	345-23; 2346-23; 235-235; 23456-2	0.014	0.012
73	25.98	6:2	146 165 188	0.5758	235-245; 2356-35; 2356-246	0.225	0.176
74	26.11	5:1 6:3	105 132 161	0.5787	234-34; 234-236; 2346-35	0.736	0.596
75	26.25	6:2	153	0.5818	245-245	1.663	1.298
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.77	6:2	141	0.5933	2345-25	0.972	0.759
78	26.82	7:4	179	0.5944	2356-236	0.890	0.634
79	27.04	6:2	137	0.5993	2345-24	0.020	0.016
80	27.16	6:2 7:4	130 176	0.6020	234-235; 2346-236	0.142	0.111
82	27.39	6:2	138 163 164	0.6070	234-245; 2356-34; 236-345	1.489	1.162
83	27.56	6:2	158 160 186	0.6108	2346-34; 23456-3; 23456-26	0.142	0.111
84	27.76	6:2	126 129	0.6152	345-34; 2345-23	0.008	0.007
85	28.08	7:3	166 178	0.6223	23456-4; 2356-235	0.697	0.496
87	28.36	7:3	175 159	0.6285	2346-235; 2345-35	0.119	0.085
88	28.51	7:3	182 187	0.6319	2345-246; 2356-245	2.143	1.527
89	28.63	6:2	128 162	0.6345	234-234; 235-345	0.051	0.040
90	28.80	7:3	183	0.6383	2346-245	0.974	0.694
91	29.06	6:1	167	0.6441	245-345	0.027	0.021
92	29.37	7:3	185	0.6509	23456-25	0.285	0.204
93	29.73	7:3	174 181	0.6589	2345-236; 23456-24	1.867	1.334
94	29.98	7:3	177	0.6645	2356-234	0.980	0.700
95	30.28	6:1 7:3	156 171	0.6711	2345-34; 2346-234	0.421	0.311
96	30.52	8:4	157 202	0.6764	234-345; 2356-2356	0.041	0.027
98	30.68	7:3	173	0.6800	23456-23	0.026	0.018
99	31.03	8:4	201	0.6877	2346-2356	0.242	0.158
100	31.28	7:2	172 204	0.6933	2345-235; 23456-246	0.319	0.227
101	31.55	8:4	192 197	0.6992	23456-35; 2346-2346	0.058	0.038
102	31.74	7:2	180	0.7035	2345-245	3.469	2.472
103	31.96	7:2	193	0.7083	2356-345	0.230	0.164
104	32.27	7:2	191	0.7152	2346-345	0.059	0.042
105	32.59	8:4	200 169	0.7223	23456-236; 345-345	0.270	0.177
106	33.70	7:2	170	0.7469	2345-234	0.723	0.515

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>	0.7527	23456-34	0.241	0.172
108	34.77	8:3	<b>198</b>	0.7706	23456-235	0.057	0.037
109	35.00	8:3	<b>199</b>	0.7757	2345-2356	2.569	1.684
110	35.51	8:3	<b>196 203</b>	0.7870	2345-2346; 23456-245	2.580	1.691
111	36.62	7:1	<b>189</b>	0.8116	2345-345	0.015	0.011
112	38.09	8:3	<b>195</b>	0.8442	23456-234	0.301	0.197
113	38.58	9:4	<b>208</b>	0.8551	23456-2356	0.165	0.100
114	39.47	9:4	<b>207</b>	0.8748	23456-2346	0.049	0.030
115	40.84	8:2	<b>194</b>	0.9051	2345-2345	1.057	0.693
116	41.70	8:2	<b>205</b>	0.9242	23456-345	0.065	0.043
117	46.56	9:3	<b>206</b>	1.032	23456-2345	0.422	0.256
118	52.30	10:4	<b>209</b>	1.159	23456-23456	0.001	0.000

Concentration = 116 ng/mL

Total Nanomoles = 0.412

Average Molecular Weight = 281.7

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

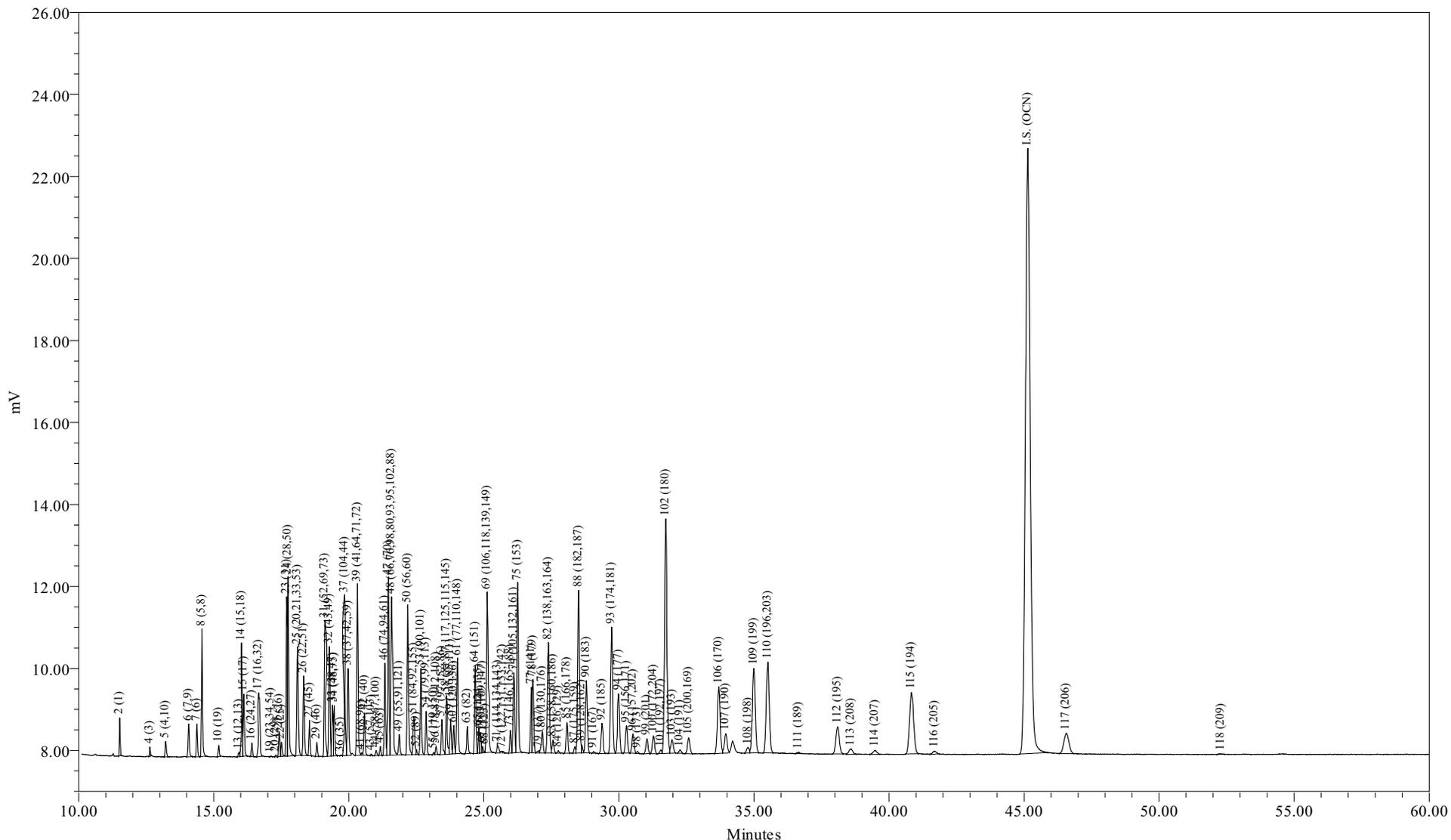
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

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Sample Name: CCCS1022D  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 10/23/2009 09:47:48 EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-21

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 09:47:48  
 Lab Sample ID: CCCS1022D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-204-21

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 114 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.30	15.43
Di	12.48	15.73
Tri	17.86	19.58
Tetra	21.40	20.77
Penta	8.42	7.25
Hexa	8.06	6.36
Hepta	13.50	9.66
Octa	7.29	4.80
Nona	0.69	0.42
Deca	0.01	0.01

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent	
			Sediment	Biota
A1221	2/001	7.5219	38.1	30.7
A1242	23+24/31+28	5.6573	28.6	23.1
A1254SED	61/100	1.3882	7.02	
A1254BIO	69+75+82/149+153+138	6.1149		25.0
A1260	102/180	3.9888	20.2	16.3
A1268	115/194	1.2062	6.10	4.93

Ortho Cl / biphenyl Residue = 1.60

Meta + Para Cl / biphenyl Residue = 2.13

Total Cl / biphenyl Residue = 3.73

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 09:47:48  
 Lab Sample ID: CCCS1022D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-204-21

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.52	188.7	1678	7.52	39.9			
3	12.52	188.7		-	-			
4	12.64	188.7	467	4.19	22.2			
5	13.22	223.1	1170	2.22	9.97			
6	14.07	223.1	2645	0.714	3.20			
7	14.38	223.1	2092	1.20	5.38			
8	14.56	223.1	8769	9.20	41.3			
9	15.11	223.1		-	-			
10	15.18	257.5	714	0.254	0.988			
11	15.64	257.5		-	-			
12	15.72	223.1		-	-			
13	15.93	223.1	352	0.148	0.664			
14	16.03	249.0	7776	2.84	11.4			
15	16.12	257.5	4740	2.67	10.4			
16	16.41	257.5	945	0.202	0.785			
17	16.66	257.5	7313	2.87	11.1			
19	17.12	267.9	79	0.0255	0.0952			
20	17.30	257.5	125	0.0293	0.114			
21	17.43	257.5	1809	0.562	2.18			
22	17.51	257.5	1052	0.232	0.900			
23	17.70	257.5	10334	2.73	10.6			
24	17.75	257.5	14128	2.93	11.4			
25	18.10	259.5	9722	2.78	10.7			
26	18.33	258.7	6418	1.91	7.36			
27	18.55	292.0	2513	0.649	2.22			
28	18.69	257.5		-	-			
29	18.82	292.0	1004	0.297	1.02			
30	18.96	257.5		-	-			
31	19.11	292.0	10550	3.81	13.1			
32	19.28	292.0	8708	1.59	5.43			
33	19.40	292.0	3723	0.471	1.61			
34	19.46	292.0	3891	0.664	2.28			
35	19.59	292.0		-	-			
36	19.70	257.5	49	0.0209	0.0810			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.85	292.0	12467	2.91	9.97			
38	19.97	272.4	7545	2.11	7.74			
39	20.32	292.0	14172	2.56	8.75			
41	20.47	326.4	182	0.0546	0.167			
42	20.58	292.0	3290	0.690	2.36			
43	20.83	298.9	113	0.0241	0.0805			
44	21.01	298.9	461	0.0749	0.250			
45	21.17	292.0	690	0.113	0.387			
46	21.34	292.0	7578	0.934	3.20			
47	21.46	292.0	14358	2.20	7.54			
48	21.58	293.5	19708	4.47	15.2			
49	21.87	324.7	1885	0.354	1.09			
50	22.18	292.0	12982	1.96	6.70			
51	22.41	326.4	3954	1.50	4.61			
52	22.51	326.4	316	0.0584	0.179			
53	22.67	326.4	7218	1.29	3.95			
54	22.86	326.4	3494	0.402	1.23			
55	23.15	326.4	170	0.0138	0.0423			
56	23.24	326.4	613	0.123	0.377			
57	23.45	326.4	3093	0.421	1.29			
58	23.62	326.4	5315	0.868	2.66			
59	23.77	326.4	2859	0.369	1.13			
60	23.89	360.9	2243	0.506	1.40			
61	24.03	326.4	8611	1.39	4.25			
62	24.29	360.9		-	-			
63	24.39	326.4	2372	0.312	0.955			
64	24.68	360.9	7270	1.18	3.28			
65	24.82	350.5	2022	0.201	0.572			
66	24.88	360.9	1630	0.395	1.09			
67	24.96	336.8	458	0.0742	0.220			
68	25.05	326.4	108	0.0169	0.0517			
69	25.12	337.5	17319	2.52	7.46			
70	25.24	360.9		-	-			
71	25.51	347.8	901	0.135	0.387			
72	25.69	336.8	161	0.0151	0.0448			
73	25.99	360.9	1914	0.259	0.717			
74	26.11	347.8	7519	0.842	2.42			
75	26.25	360.9	15913	1.89	5.25			
76	26.37	360.9		-	-			
77	26.76	360.9	5046	0.985	2.73			
78	26.82	395.3	7334	1.12	2.84			
79	27.04	360.9	325	0.0531	0.147			
80	27.16	360.9	2354	0.170	0.472			
82	27.39	360.9	13453	1.71	4.73			
83	27.57	360.9	1459	0.163	0.452			
84	27.76	360.9	269	0.0128	0.0354			
85	28.08	395.3	3363	0.790	2.00			
87	28.37	395.3	630	0.135	0.342			
88	28.51	395.3	18951	2.47	6.25			
89	28.62	360.9	637	0.0496	0.138			
90	28.80	395.3	8449	1.12	2.84			
91	29.06	360.9	174	0.0257	0.0711			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.37	394.3	3665	0.330	0.837			
93	29.73	394.3	16188	2.13	5.41			
94	29.99	394.3	7692	1.12	2.84			
95	30.28	382.2	3577	0.486	1.27			
96	30.52	429.8	2528	0.0472	0.110			
98	30.69	395.3	237	0.0244	0.0618			
99	31.04	429.8	1951	0.277	0.645			
100	31.28	395.3	2532	0.374	0.947			
101	31.55	429.8	453	0.0729	0.170			
102	31.73	395.3	35268	3.99	10.1			
103	31.97	395.3	2109	0.269	0.680			
104	32.26	395.3	471	0.0648	0.164			
105	32.58	429.8	2468	0.302	0.703			
106	33.70	395.3	11466	0.819	2.07			
107	33.96	395.3	3315	0.268	0.677			
108	34.78	429.8	887	0.0749	0.174			
109	34.99	429.8	15811	2.94	6.85			
110	35.52	429.8	17319	2.93	6.83			
111	36.65	395.3	194	0.0171	0.0432			
112	38.10	429.8	5896	0.360	0.839			
113	38.60	464.2	1241	0.200	0.430			
114	39.49	464.2	935	0.0793	0.171			
115	40.83	429.8	15833	1.21	2.81			
116	41.69	429.8	738	0.0748	0.174			
117	46.56	464.2	6487	0.509	1.10			
118	52.29	498.6	137	0.0117	0.0235			

Total Concentration = 114 ng/mL

Total Nanomoles = 0.402

Average Molecular Weight = 282.7

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.14 minutes

Internal Standard Peak Area = 183957.7

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 09:47:48  
 Lab Sample ID: CCCS1022D  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-204-21

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.52	1:1	001	0.2552	2	6.613	9.905
3	12.52	1:0	002		3	-	-
4	12.64	1:0	003	0.2800	4	3.686	5.521
5	13.22	2:2	004 010	0.2929	2-2; 26	1.955	2.477
6	14.07	2:1	007 009	0.3117	24; 25	0.628	0.795
7	14.38	2:1	006	0.3186	2-3	1.054	1.336
8	14.56	2:1	005 008	0.3226	23; 2-4	8.092	10.252
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3363	26-2	0.224	0.245
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.93	2:0	012 013	0.3529	34; 3-4	0.130	0.165
14	16.03	2:0 3:2	015 018	0.3551	4-4; 25-2	2.495	2.833
15	16.12	3:2	017	0.3571	24-2	2.343	2.572
16	16.41	3:2	024 027	0.3635	236; 26-3	0.178	0.195
17	16.66	3:2	016 032	0.3691	23-2; 26-4	2.522	2.768
19	17.12	3:1 4:4	023 034 054	0.3793	235; 35-2; 26-26	0.022	0.024
20	17.30	3:1	029	0.3833	245	0.026	0.028
21	17.43	3:1	026	0.3861	25-3	0.494	0.542
22	17.51	3:1	025	0.3879	24-3	0.204	0.224
23	17.70	3:1	031	0.3921	25-4	2.398	2.632
24	17.75	3:1 4:3	028 050	0.3932	24-4; 246-2	2.576	2.827
25	18.10	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	2.445	2.663
26	18.33	3:1 4:3	022 051	0.4061	23-4; 24-26	1.675	1.830
27	18.55	4:3	045	0.4109	236-2	0.570	0.552
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046	0.4169	23-26	0.261	0.253
30	18.96	3:0	039		35-4	-	-
31	19.11	4:2	052 069 073	0.4233	25-25; 246-3; 26-35	3.351	3.244
32	19.28	4:2	043 049	0.4271	235-2; 24-25	1.394	1.349
33	19.40	4:2	038 047	0.4298	345; 24-24	0.414	0.401
34	19.46	4:2	048 075	0.4311	245-2; 246-4	0.584	0.565
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.70	3:0	035	0.4364	34-3	0.018	0.020
37	19.85	5:4 4:2	104 044	0.4397	246-26; 23-25	2.560	2.478
38	19.97	3:0 4:2	037 042 059	0.4424	34-4; 23-24; 236-3	1.853	1.923
39	20.32	4:2	041 064 071 072	0.4502	234-2; 236-4; 26-34; 25-35	2.247	2.175

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096	0.4535	24-35; 236-26	0.048	0.042
42	20.58	4:2	040	0.4559	23-23	0.607	0.587
43	20.83	4:1 5:3	057 103	0.4615	235-3; 246-25	0.021	0.020
44	21.01	4:1 5:3	058 067 100	0.4654	23-35; 245-3; 246-24	0.066	0.062
45	21.17	4:1	063	0.4690	235-4	0.099	0.096
46	21.34	4:1 5:3	074 094 061	0.4728	245-4; 235-26; 2345	0.821	0.795
47	21.46	4:1	070	0.4754	25-34	1.936	1.874
48	21.58	4:1 5:3	066 076 098 080 093 095 102 088	0.4781	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.929	3.784
49	21.87	4:1 5:3	055 091 121	0.4845	234-3; 236-24; 246-35	0.311	0.271
50	22.18	4:1	056 060	0.4914	23-34; 234-4	1.719	1.664
51	22.41	5:3 6:4	084 092 155	0.4965	236-23; 235-25; 246-246	1.323	1.145
52	22.51	5:3	089	0.4987	234-26	0.051	0.044
53	22.67	5:2	090 101	0.5022	235-24; 245-25	1.132	0.981
54	22.86	5:2	079 099 113	0.5064	34-35; 245-24; 236-35	0.353	0.306
55	23.15	5:2 6:4	119 150	0.5128	246-34; 236-246	0.012	0.011
56	23.24	5:2	078 083 112 108	0.5148	345-3; 235-23; 2356-3; 2346-3	0.108	0.094
57	23.45	5:2 6:4	097 152 086	0.5195	245-23; 2356-26; 2345-2	0.370	0.320
58	23.62	5:2	081 087 117 125 115 145	0.5233	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.763	0.661
59	23.77	5:2	116 085 111	0.5266	23456; 234-24; 235-35	0.325	0.281
60	23.89	6:4	120 136	0.5292	245-35; 236-236	0.445	0.348
61	24.03	5:2	077 110 148	0.5323	34-34; 236-34; 235-246	1.220	1.057
62	24.29	6:3	154		245-246	-	-
63	24.39	5:2	082	0.5403	234-23	0.274	0.237
64	24.68	6:3	151	0.5467	2356-25	1.040	0.815
65	24.82	5:1 6:3	124 135	0.5498	345-25; 235-236	0.176	0.142
66	24.88	6:3	144	0.5512	2346-25	0.347	0.272
67	24.96	5:1 6:3	107 109 147	0.5529	234-35; 235-34; 2356-24	0.065	0.055
68	25.05	5:1	123	0.5549	345-24	0.015	0.013
69	25.12	5:1 6:3	106 118 139 149	0.5565	2345-3; 245-34; 2346-24; 236-245	2.212	1.853
70	25.24	6:3	140		234-246	-	-
71	25.51	5:1 6:3	114 134 143	0.5651	2345-4; 2356-23; 2345-26	0.118	0.096
72	25.69	5:1 6:3	122 131 133 142	0.5691	345-23; 2346-23; 235-235; 23456-2	0.013	0.011
73	25.99	6:2	146 165 188	0.5758	235-245; 2356-35; 2356-246	0.228	0.178
74	26.11	5:1 6:3	105 132 161	0.5784	234-34; 234-236; 2346-35	0.741	0.602
75	26.25	6:2	153	0.5815	245-245	1.664	1.303
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141	0.5928	2345-25	0.866	0.678
78	26.82	7:4	179	0.5942	2356-236	0.988	0.706
79	27.04	6:2	137	0.5990	2345-24	0.047	0.037
80	27.16	6:2 7:4	130 176	0.6017	234-235; 2346-236	0.150	0.117
82	27.39	6:2	138 163 164	0.6068	234-245; 2356-34; 236-345	1.499	1.174
83	27.57	6:2	158 160 186	0.6108	2346-34; 23456-3; 23456-26	0.143	0.112
84	27.76	6:2	126 129	0.6150	345-34; 2345-23	0.011	0.009
85	28.08	7:3	166 178	0.6221	23456-4; 2356-235	0.695	0.497
87	28.37	7:3	175 159	0.6285	2346-235; 2345-35	0.119	0.085
88	28.51	7:3	182 187	0.6316	2345-246; 2356-245	2.172	1.553
89	28.62	6:2	128 162	0.6340	234-234; 235-345	0.044	0.034
90	28.80	7:3	183	0.6380	2346-245	0.986	0.705
91	29.06	6:1	167	0.6438	245-345	0.023	0.018
92	29.37	7:3	185	0.6506	23456-25	0.290	0.208
93	29.73	7:3	174 181	0.6586	2345-236; 23456-24	1.876	1.345
94	29.99	7:3	177	0.6644	2356-234	0.984	0.706
95	30.28	6:1 7:3	156 171	0.6708	2345-34; 2346-234	0.427	0.316
96	30.52	8:4	157 202	0.6761	234-345; 2356-2356	0.041	0.027
98	30.69	7:3	173	0.6799	23456-23	0.021	0.015
99	31.04	8:4	201	0.6876	2346-2356	0.244	0.160
100	31.28	7:2	172 204	0.6930	2345-235; 23456-246	0.329	0.235
101	31.55	8:4	192 197	0.6989	23456-35; 2346-2346	0.064	0.042
102	31.73	7:2	180	0.7029	2345-245	3.507	2.507
103	31.97	7:2	193	0.7082	2356-345	0.236	0.169
104	32.26	7:2	191	0.7147	2346-345	0.057	0.041
105	32.58	8:4	200 169	0.7218	23456-236; 345-345	0.266	0.175
106	33.70	7:2	170	0.7466	2345-234	0.720	0.515

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.96	7:2	<b>190</b>	0.7523	23456-34	0.235	0.168
108	34.78	8:3	<b>198</b>	0.7705	23456-235	0.066	0.043
109	34.99	8:3	<b>199</b>	0.7751	2345-2356	2.588	1.702
110	35.52	8:3	<b>196 203</b>	0.7869	2345-2346; 23456-245	2.580	1.697
111	36.65	7:1	<b>189</b>	0.8119	2345-345	0.015	0.011
112	38.10	8:3	<b>195</b>	0.8440	23456-234	0.317	0.208
113	38.60	9:4	<b>208</b>	0.8551	23456-2356	0.176	0.107
114	39.49	9:4	<b>207</b>	0.8748	23456-2346	0.070	0.042
115	40.83	8:2	<b>194</b>	0.9045	2345-2345	1.060	0.697
116	41.69	8:2	<b>205</b>	0.9236	23456-345	0.066	0.043
117	46.56	9:3	<b>206</b>	1.031	23456-2345	0.448	0.273
118	52.29	10:4	<b>209</b>	1.158	23456-23456	0.010	0.006

Concentration = 114 ng/mL

Total Nanomoles = 0.402

Average Molecular Weight = 282.7

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

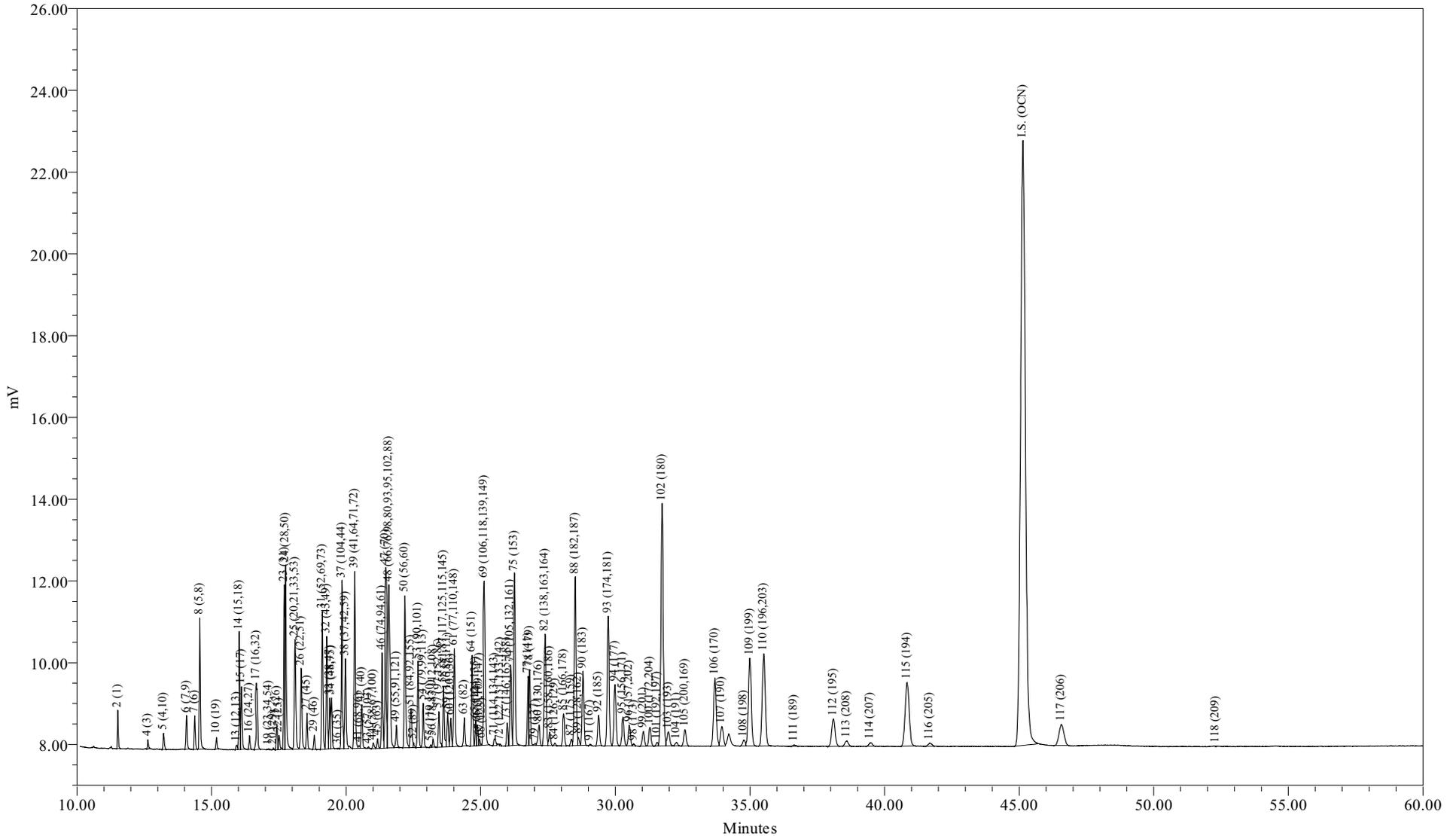
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Sample Name: CCCS1023A  
Sample ID: CCC Std 122 ng/mL  
Date Acquired: 10/23/2009 20:46:24 EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-205-7

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 20:46:24  
 Lab Sample ID: CCCS1023A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-205-7

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 116 ng/mL

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	10.94	16.31
Di	12.52	15.71
Tri	17.88	19.52
Tetra	21.19	20.48
Penta	8.33	7.13
Hexa	7.94	6.24
Hepta	13.30	9.48
Octa	7.25	4.75
Nona	0.65	0.39
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount (ng/mL)	Percent Sediment	Biota
A1221	2/001	7.9733	39.1	31.7
A1242	23+24/31+28	5.7796	28.3	23.0
A1254SED	61/100	1.4159	6.94	
A1254BIO	69+75+82/149+153+138	6.1436		24.4
A1260	102/180	4.0200	19.7	16.0
A1268	115/194	1.2268	6.01	4.88

Ortho Cl / biphenyl Residue = 1.58

Meta + Para Cl / biphenyl Residue = 2.11

Total Cl / biphenyl Residue = 3.69

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 20:46:24  
 Lab Sample ID: CCCS1023A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-205-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
2	11.52	188.7	1810	7.97	42.3			
3	12.52	188.7		-	-			
4	12.64	188.7	537	4.73	25.1			
5	13.22	223.1	1227	2.29	10.3			
6	14.07	223.1	2643	0.701	3.14			
7	14.38	223.1	2154	1.21	5.44			
8	14.56	223.1	9169	9.46	42.4			
9	15.11	223.1		-	-			
10	15.18	257.5	728	0.255	0.989			
11	15.64	257.5		-	-			
12	15.72	223.1		-	-			
13	15.93	223.1	398	0.165	0.738			
14	16.03	249.0	8006	2.87	11.5			
15	16.12	257.5	4960	2.74	10.6			
16	16.41	257.5	920	0.193	0.751			
17	16.66	257.5	7569	2.92	11.3			
19	17.12	267.9	40	0.0127	0.0472			
20	17.30	257.5	114	0.0263	0.102			
21	17.43	257.5	1862	0.569	2.21			
22	17.51	257.5	1159	0.251	0.975			
23	17.70	257.5	10651	2.76	10.7			
24	17.75	257.5	14796	3.02	11.7			
25	18.10	259.5	10272	2.89	11.1			
26	18.33	258.7	6797	1.98	7.67			
27	18.55	292.0	2606	0.661	2.26			
28	18.69	257.5		-	-			
29	18.82	292.0	1039	0.302	1.04			
30	18.96	257.5		-	-			
31	19.12	292.0	10793	3.83	13.1			
32	19.28	292.0	8870	1.59	5.43			
33	19.40	292.0	3764	0.468	1.60			
34	19.46	292.0	3928	0.659	2.26			
35	19.59	292.0		-	-			
36	19.70	257.5	25	0.0103	0.0398			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
37	19.85	292.0	12824	2.94	10.1			
38	19.97	272.4	7793	2.14	7.85			
39	20.32	292.0	14606	2.59	8.87			
41	20.47	326.4	227	0.0667	0.204			
42	20.58	292.0	3426	0.706	2.42			
43	20.83	298.9	107	0.0224	0.0748			
44	21.01	298.9	569	0.0910	0.304			
45	21.17	292.0	796	0.128	0.439			
46	21.33	292.0	7852	0.951	3.26			
47	21.47	292.0	14818	2.23	7.65			
48	21.58	293.5	20261	4.52	15.4			
49	21.87	324.7	1956	0.361	1.11			
50	22.18	292.0	13409	1.98	6.80			
51	22.41	326.4	4104	1.53	4.70			
52	22.51	326.4	355	0.0644	0.197			
53	22.67	326.4	7390	1.30	3.97			
54	22.87	326.4	3575	0.404	1.24			
55	23.14	326.4	173	0.0138	0.0424			
56	23.23	326.4	598	0.118	0.361			
57	23.45	326.4	3158	0.422	1.29			
58	23.62	326.4	5396	0.866	2.65			
59	23.77	326.4	2975	0.378	1.16			
60	23.89	360.9	2312	0.512	1.42			
61	24.02	326.4	8937	1.42	4.34			
62	24.29	360.9		-	-			
63	24.39	326.4	2296	0.296	0.907			
64	24.68	360.9	7392	1.18	3.28			
65	24.81	350.5	1965	0.192	0.547			
66	24.88	360.9	1729	0.412	1.14			
67	24.95	336.8	477	0.0758	0.225			
68	25.05	326.4	95	0.0146	0.0447			
69	25.12	337.5	17736	2.53	7.50			
70	25.24	360.9		-	-			
71	25.52	347.8	884	0.130	0.373			
72	25.72	336.8	151	0.0139	0.0413			
73	25.98	360.9	1956	0.260	0.720			
74	26.11	347.8	7721	0.850	2.44			
75	26.25	360.9	16328	1.91	5.29			
76	26.37	360.9		-	-			
77	26.76	360.9	5295	1.02	2.81			
78	26.82	395.3	7402	1.11	2.82			
79	27.02	360.9	242	0.0383	0.106			
80	27.17	360.9	2311	0.164	0.455			
82	27.39	360.9	13667	1.70	4.72			
83	27.56	360.9	1499	0.165	0.456			
84	27.75	360.9	250	0.0117	0.0323			
85	28.08	395.3	3399	0.785	1.99			
87	28.37	395.3	656	0.138	0.350			
88	28.51	395.3	19293	2.47	6.25			
89	28.63	360.9	810	0.0624	0.173			
90	28.80	395.3	8582	1.12	2.83			
91	29.06	360.9	124	0.0182	0.0503			

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/mL)	Sample Picomoles/mL	MDL (ng/mL)	RL (ng/mL)	Qual
92	29.38	394.3	3656	0.323	0.820			
93	29.73	394.3	16606	2.15	5.46			
94	29.98	394.3	7972	1.14	2.89			
95	30.28	382.2	3764	0.502	1.31			
96	30.51	429.8	2633	0.0482	0.112			
98	30.69	395.3	197	0.0200	0.0507			
99	31.04	429.8	2009	0.280	0.652			
100	31.28	395.3	2585	0.375	0.949			
101	31.56	429.8	452	0.0714	0.166			
102	31.74	395.3	36168	4.02	10.2			
103	31.97	395.3	2305	0.289	0.730			
104	32.27	395.3	475	0.0642	0.162			
105	32.59	429.8	2468	0.297	0.691			
106	33.70	395.3	11895	0.835	2.11			
107	33.95	395.3	3439	0.273	0.690			
108	34.77	429.8	926	0.0768	0.179			
109	35.00	429.8	16297	2.98	6.94			
110	35.51	429.8	17999	3.00	6.98			
111	36.64	395.3	272	0.0234	0.0592			
112	38.10	429.8	6119	0.367	0.855			
113	38.60	464.2	1160	0.183	0.395			
114	39.47	464.2	787	0.0654	0.141			
115	40.83	429.8	16386	1.23	2.85			
116	41.68	429.8	748	0.0744	0.173			
117	46.56	464.2	6539	0.504	1.09			
118	52.31	498.6	4	0.000204	0.000410			

Total Concentration = 116 ng/mL

Total Nanomoles = 0.413

Average Molecular Weight = 281.3

Number of Calibrated Peaks Found = 102

Internal Standard Retention Time = 45.14 minutes

Internal Standard Peak Area = 187225.1

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/23/2009 20:46:24  
 Lab Sample ID: CCCS1023A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-205-7

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.52	1:1	001	0.2552	2	6.864	10.234
3	12.52	1:0	002		3	-	-
4	12.64	1:0	003	0.2800	4	4.072	6.072
5	13.22	2:2	004 010	0.2929	2-2; 26	1.972	2.487
6	14.07	2:1	007 009	0.3117	24; 25	0.603	0.761
7	14.38	2:1	006	0.3186	2-3	1.044	1.317
8	14.56	2:1	005 008	0.3226	23; 2-4	8.145	10.272
9	15.11	2:0	014		35	-	-
10	15.18	3:3	019	0.3363	26-2	0.219	0.240
11	15.64	3:2	030		246	-	-
12	15.72	2:0	011		3-3	-	-
13	15.93	2:0	012 013	0.3529	34; 3-4	0.142	0.179
14	16.03	2:0 3:2	015 018	0.3551	4-4; 25-2	2.472	2.794
15	16.12	3:2	017	0.3571	24-2	2.359	2.578
16	16.41	3:2	024 027	0.3635	236; 26-3	0.166	0.182
17	16.66	3:2	016 032	0.3691	23-2; 26-4	2.511	2.744
19	17.12	3:1 4:4	023 034 054	0.3793	235; 35-2; 26-26	0.011	0.011
20	17.30	3:1	029	0.3833	245	0.023	0.025
21	17.43	3:1	026	0.3861	25-3	0.489	0.535
22	17.51	3:1	025	0.3879	24-3	0.216	0.236
23	17.70	3:1	031	0.3921	25-4	2.379	2.599
24	17.75	3:1 4:3	028 050	0.3932	24-4; 246-2	2.597	2.837
25	18.10	3:1 4:3	020 021 033 053	0.4010	23-3; 234; 34-2; 25-26	2.486	2.695
26	18.33	3:1 4:3	022 051	0.4061	23-4; 24-26	1.707	1.857
27	18.55	4:3	045	0.4109	236-2	0.569	0.548
28	18.69	3:0	036		35-3	-	-
29	18.82	4:3	046	0.4169	23-26	0.260	0.251
30	18.96	3:0	039		35-4	-	-
31	19.12	4:2	052 069 073	0.4236	25-25; 246-3; 26-35	3.298	3.178
32	19.28	4:2	043 049	0.4271	235-2; 24-25	1.366	1.316
33	19.40	4:2	038 047	0.4298	345; 24-24	0.403	0.388
34	19.46	4:2	048 075	0.4311	245-2; 246-4	0.567	0.547
35	19.59	4:2	062 065		2346; 2356	-	-
36	19.70	3:0	035	0.4364	34-3	0.009	0.010
37	19.85	5:4 4:2	104 044	0.4397	246-26; 23-25	2.534	2.442
38	19.97	3:0 4:2	037 042 059	0.4424	34-4; 23-24; 236-3	1.841	1.902
39	20.32	4:2	041 064 071 072	0.4502	234-2; 236-4; 26-34; 25-35	2.229	2.147

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.47	5:4	068 096	0.4535	24-35; 236-26	0.057	0.050
42	20.58	4:2	040	0.4559	23-23	0.608	0.586
43	20.83	4:1 5:3	057 103	0.4615	235-3; 246-25	0.019	0.018
44	21.01	4:1 5:3	058 067 100	0.4654	23-35; 245-3; 246-24	0.078	0.074
45	21.17	4:1	063	0.4690	235-4	0.110	0.106
46	21.33	4:1 5:3	074 094 061	0.4725	245-4; 235-26; 2345	0.819	0.789
47	21.47	4:1	070	0.4756	25-34	1.923	1.852
48	21.58	4:1 5:3	066 076 098 080 093 095 102 088	0.4781	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	3.887	3.726
49	21.87	4:1 5:3	055 091 121	0.4845	234-3; 236-24; 246-35	0.310	0.269
50	22.18	4:1	056 060	0.4914	23-34; 234-4	1.708	1.646
51	22.41	5:3 6:4	084 092 155	0.4965	236-23; 235-25; 246-246	1.321	1.139
52	22.51	5:3	089	0.4987	234-26	0.055	0.048
53	22.67	5:2	090 101	0.5022	235-24; 245-25	1.116	0.962
54	22.87	5:2	079 099 113	0.5066	34-35; 245-24; 236-35	0.348	0.300
55	23.14	5:2 6:4	119 150	0.5126	246-34; 236-246	0.012	0.010
56	23.23	5:2	078 083 112 108	0.5146	345-3; 235-23; 2356-3; 2346-3	0.102	0.088
57	23.45	5:2 6:4	097 152 086	0.5195	245-23; 2356-26; 2345-2	0.363	0.313
58	23.62	5:2	081 087 117 125 115 145	0.5233	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.745	0.642
59	23.77	5:2	116 085 111	0.5266	23456; 234-24; 235-35	0.325	0.280
60	23.89	6:4	120 136	0.5292	245-35; 236-236	0.441	0.344
61	24.02	5:2	077 110 148	0.5321	34-34; 236-34; 235-246	1.219	1.051
62	24.29	6:3	154		245-246	-	-
63	24.39	5:2	082	0.5403	234-23	0.255	0.220
64	24.68	6:3	151	0.5467	2356-25	1.018	0.793
65	24.81	5:1 6:3	124 135	0.5496	345-25; 235-236	0.165	0.132
66	24.88	6:3	144	0.5512	2346-25	0.354	0.276
67	24.95	5:1 6:3	107 109 147	0.5527	234-35; 235-34; 2356-24	0.065	0.055
68	25.05	5:1	123	0.5549	345-24	0.013	0.011
69	25.12	5:1 6:3	106 118 139 149	0.5565	2345-3; 245-34; 2346-24; 236-245	2.180	1.817
70	25.24	6:3	140		234-246	-	-
71	25.52	5:1 6:3	114 134 143	0.5654	2345-4; 2356-23; 2345-26	0.112	0.090
72	25.72	5:1 6:3	122 131 133 142	0.5698	345-23; 2346-23; 235-235; 23456-2	0.012	0.010
73	25.98	6:2	146 165 188	0.5755	235-245; 2356-35; 2356-246	0.224	0.174
74	26.11	5:1 6:3	105 132 161	0.5784	234-34; 234-236; 2346-35	0.732	0.592
75	26.25	6:2	153	0.5815	245-245	1.643	1.281
76	26.37	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	26.76	6:2	141	0.5928	2345-25	0.874	0.682
78	26.82	7:4	179	0.5942	2356-236	0.959	0.683
79	27.02	6:2	137	0.5986	2345-24	0.033	0.026
80	27.17	6:2 7:4	130 176	0.6019	234-235; 2346-236	0.142	0.110
82	27.39	6:2	138 163 164	0.6068	234-245; 2356-34; 236-345	1.465	1.142
83	27.56	6:2	158 160 186	0.6105	2346-34; 23456-3; 23456-26	0.142	0.110
84	27.75	6:2	126 129	0.6148	345-34; 2345-23	0.010	0.008
85	28.08	7:3	166 178	0.6221	23456-4; 2356-235	0.676	0.481
87	28.37	7:3	175 159	0.6285	2346-235; 2345-35	0.119	0.085
88	28.51	7:3	182 187	0.6316	2345-246; 2356-245	2.128	1.514
89	28.63	6:2	128 162	0.6342	234-234; 235-345	0.054	0.042
90	28.80	7:3	183	0.6380	2346-245	0.964	0.686
91	29.06	6:1	167	0.6438	245-345	0.016	0.012
92	29.38	7:3	185	0.6509	23456-25	0.278	0.199
93	29.73	7:3	174 181	0.6586	2345-236; 23456-24	1.852	1.322
94	29.98	7:3	177	0.6642	2356-234	0.982	0.701
95	30.28	6:1 7:3	156 171	0.6708	2345-34; 2346-234	0.432	0.318
96	30.51	8:4	157 202	0.6759	234-345; 2356-2356	0.042	0.027
98	30.69	7:3	173	0.6799	23456-23	0.017	0.012
99	31.04	8:4	201	0.6876	2346-2356	0.241	0.158
100	31.28	7:2	172 204	0.6930	2345-235; 23456-246	0.323	0.230
101	31.56	8:4	192 197	0.6992	23456-35; 2346-2346	0.061	0.040
102	31.74	7:2	180	0.7031	2345-245	3.461	2.463
103	31.97	7:2	193	0.7082	2356-345	0.249	0.177
104	32.27	7:2	191	0.7149	2346-345	0.055	0.039
105	32.59	8:4	200 169	0.7220	23456-236; 345-345	0.256	0.167
106	33.70	7:2	170	0.7466	2345-234	0.719	0.511

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	33.95	7:2	<b>190</b>	0.7521	23456-34	0.235	0.167
108	34.77	8:3	<b>198</b>	0.7703	23456-235	0.066	0.043
109	35.00	8:3	<b>199</b>	0.7754	2345-2356	2.567	1.680
110	35.51	8:3	<b>196 203</b>	0.7867	2345-2346; 23456-245	2.581	1.689
111	36.64	7:1	<b>189</b>	0.8117	2345-345	0.020	0.014
112	38.10	8:3	<b>195</b>	0.8440	23456-234	0.316	0.207
113	38.60	9:4	<b>208</b>	0.8551	23456-2356	0.158	0.096
114	39.47	9:4	<b>207</b>	0.8744	23456-2346	0.056	0.034
115	40.83	8:2	<b>194</b>	0.9045	2345-2345	1.056	0.691
116	41.68	8:2	<b>205</b>	0.9233	23456-345	0.064	0.042
117	46.56	9:3	<b>206</b>	1.031	23456-2345	0.434	0.263
118	52.31	10:4	<b>209</b>	1.159	23456-23456	0.000	0.000

Concentration = 116 ng/mL

Total Nanomoles = 0.413

Average Molecular Weight = 281.3

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Sample Name: CCCS1022C Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 10/22/2009 22:54:10 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 10/23/2009 00:36:18  
Sample Set Name: GC24\_102209c User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_090509 Current Time: 23:06:04  
Run Time: 60 Minutes Current Date: 10/23/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-204-11

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.52	1719	7.918	7.918
2	4 (3)	12.64	507	4.673	4.673
3	5 (4,10)	13.22	1076	2.102	2.102
4	6 (7,9)	14.07	2627	0.729	0.729
5	7 (6)	14.38	2082	1.226	1.226
6	8 (5,8)	14.56	8752	9.446	9.446
7	10 (19)	15.18	629	0.231	0.231
8	13 (12,13)	15.93	390	0.169	0.169
9	14 (15,18)	16.03	7779	2.919	2.919
10	15 (17)	16.12	4829	2.791	2.791
11	16 (24,27)	16.41	934	0.205	0.205
12	17 (16,32)	16.66	7174	2.892	2.892
13	19 (23,34,54)	17.12	60	0.020	0.020
14	20 (29)	17.30	93	0.022	0.022
15	21 (26)	17.42	1694	0.541	0.541
16	22 (25)	17.51	898	0.203	0.203
17	23 (31)	17.70	10071	2.732	2.732
18	24 (28,50)	17.75	13988	2.982	2.982
19	25 (20,21,33,53)	18.10	9790	2.878	2.878
20	26 (22,51)	18.33	6533	1.994	1.994
21	27 (45)	18.55	2533	0.673	0.673
22	29 (46)	18.82	999	0.304	0.304
23	31 (52,69,73)	19.11	10429	3.873	3.873
24	32 (43,49)	19.28	8564	1.603	1.603
25	33 (38,47)	19.40	3601	0.468	0.468
26	34 (48,75)	19.46	3841	0.674	0.674
27	36 (35)	19.71	22	0.010	0.010
28	37 (104,44)	19.84	12351	2.966	2.966
29	38 (37,42,59)	19.97	7468	2.144	2.144
30	39 (41,64,71,72)	20.32	14027	2.601	2.601
31	41 (68,96)	20.47	201	0.062	0.062
32	42 (40)	20.58	3209	0.692	0.692
33	43 (57,103)	20.82	113	0.025	0.025

34	44 (58,67,100)	21.01	479	0.080	0.080
35	45 (63)	21.17	716	0.120	0.120
36	46 (74,94,61)	21.33	7548	0.956	0.956
37	47 (70)	21.46	14251	2.247	2.247
38	48 (66,76,98,80,93,95,	21.58	19438	4.531	4.531
39	49 (55,91,121)	21.87	1858	0.358	0.358
40	50 (56,60)	22.18	12845	1.988	1.988
41	51 (84,92,155)	22.41	3956	1.547	1.547
42	52 (89)	22.51	276	0.052	0.052
43	53 (90,101)	22.67	7134	1.309	1.309
44	54 (79,99,113)	22.86	3478	0.411	0.411
45	55 (119,150)	23.14	161	0.013	0.013
46	56 (78,83,112,108)	23.23	619	0.127	0.127
47	57 (97,152,86)	23.45	2972	0.415	0.415
48	58 (81,87,117,125,115	23.62	5159	0.866	0.866
49	59 (116,85,111)	23.77	2828	0.376	0.376
50	60 (120,136)	23.88	2197	0.509	0.509
51	61 (77,110,148)	24.02	8549	1.417	1.417
52	63 (82)	24.39	2370	0.320	0.320
53	64 (151)	24.68	7179	1.201	1.201
54	65 (124,135)	24.81	1999	0.204	0.204
55	66 (144)	24.88	1596	0.398	0.398
56	67 (107,109,147)	24.95	481	0.080	0.080
57	68 (123)	25.06	123	0.020	0.020
58	69 (106,118,139,149)	25.12	17020	2.542	2.542
59	71 (114,134,143)	25.51	881	0.135	0.135
60	72 (122,131,133,142)	25.71	172	0.017	0.017
61	73 (146,165,188)	25.98	1881	0.261	0.261
62	74 (105,132,161)	26.11	7425	0.855	0.855
63	75 (153)	26.25	15789	1.931	1.931
64	77 (141)	26.77	5624	1.130	1.130
65	78 (179)	26.82	6579	1.034	1.034
66	79 (137)	27.04	148	0.024	0.024
67	80 (130,176)	27.16	2222	0.165	0.165
68	82 (138,163,164)	27.39	13268	1.729	1.729
69	83 (158,160,186)	27.56	1437	0.165	0.165
70	84 (126,129)	27.76	198	0.010	0.010
71	85 (166,178)	28.08	3349	0.809	0.809
72	87 (175,159)	28.36	625	0.138	0.138
73	88 (182,187)	28.51	18569	2.489	2.489
74	89 (128,162)	28.63	736	0.059	0.059
75	90 (183)	28.80	8292	1.131	1.131
76	91 (167)	29.06	205	0.031	0.031
77	92 (185)	29.37	3583	0.332	0.332
78	93 (174,181)	29.73	15997	2.168	2.168
79	94 (177)	29.98	7610	1.139	1.139
80	95 (156,171)	30.28	3508	0.490	0.490
81	96 (157,202)	30.52	2513	0.048	0.048
82	98 (173)	30.68	281	0.030	0.030
83	99 (201)	31.03	1924	0.281	0.281
84	100 (172,204)	31.28	2441	0.371	0.371

85	101 (192,197)	31.55	407	0.067	0.067
86	102 (180)	31.74	34659	4.030	4.030
87	103 (193)	31.96	2039	0.267	0.267
88	104 (191)	32.27	486	0.069	0.069
89	105 (200,169)	32.59	2494	0.314	0.314
90	106 (170)	33.70	11443	0.840	0.840
91	107 (190)	33.96	3379	0.280	0.280
92	108 (198)	34.77	764	0.066	0.066
93	109 (199)	35.00	15591	2.984	2.984
94	110 (196,203)	35.51	17203	2.997	2.997
95	111 (189)	36.62	192	0.017	0.017
96	112 (195)	38.09	5561	0.349	0.349
97	113 (208)	38.58	1155	0.191	0.191
98	114 (207)	39.47	653	0.057	0.057
99	115 (194)	40.84	15676	1.228	1.228
100	116 (205)	41.70	725	0.075	0.075
101	117 (206)	46.56	6079	0.490	0.490
102	118 (209)	52.30	13	0.001	0.001
103	Sum			116.152	116.152



Sample Name: CCCS1022D Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 10/23/2009 09:47:48 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 10/23/2009 10:52:24  
Sample Set Name: GC24\_102209c User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_090509 Current Time: 23:06:06  
Run Time: 60 Minutes Current Date: 10/23/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-204-21

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.52	1678	7.522	7.522
2	4 (3)	12.64	467	4.192	4.192
3	5 (4,10)	13.22	1170	2.224	2.224
4	6 (7,9)	14.07	2645	0.714	0.714
5	7 (6)	14.38	2092	1.199	1.199
6	8 (5,8)	14.56	8769	9.205	9.205
7	10 (19)	15.18	714	0.254	0.254
8	13 (12,13)	15.93	352	0.148	0.148
9	14 (15,18)	16.03	7776	2.838	2.838
10	15 (17)	16.12	4740	2.666	2.666
11	16 (24,27)	16.41	945	0.202	0.202
12	17 (16,32)	16.66	7313	2.868	2.868
13	19 (23,34,54)	17.12	79	0.025	0.025
14	20 (29)	17.30	125	0.029	0.029
15	21 (26)	17.43	1809	0.562	0.562
16	22 (25)	17.51	1052	0.232	0.232
17	23 (31)	17.70	10334	2.728	2.728
18	24 (28,50)	17.75	14128	2.930	2.930
19	25 (20,21,33,53)	18.10	9722	2.781	2.781
20	26 (22,51)	18.33	6418	1.905	1.905
21	27 (45)	18.55	2513	0.649	0.649
22	29 (46)	18.82	1004	0.297	0.297
23	31 (52,69,73)	19.11	10550	3.812	3.812
24	32 (43,49)	19.28	8708	1.586	1.586
25	33 (38,47)	19.40	3723	0.471	0.471
26	34 (48,75)	19.46	3891	0.664	0.664
27	36 (35)	19.70	49	0.021	0.021
28	37 (104,44)	19.85	12467	2.912	2.912
29	38 (37,42,59)	19.97	7545	2.108	2.108
30	39 (41,64,71,72)	20.32	14172	2.556	2.556
31	41 (68,96)	20.47	182	0.055	0.055
32	42 (40)	20.58	3290	0.690	0.690
33	43 (57,103)	20.83	113	0.024	0.024

34	44 (58,67,100)	21.01	461	0.075	0.075
35	45 (63)	21.17	690	0.113	0.113
36	46 (74,94,61)	21.34	7578	0.934	0.934
37	47 (70)	21.46	14358	2.202	2.202
38	48 (66,76,98,80,93,95,	21.58	19708	4.469	4.469
39	49 (55,91,121)	21.87	1885	0.354	0.354
40	50 (56,60)	22.18	12982	1.955	1.955
41	51 (84,92,155)	22.41	3954	1.504	1.504
42	52 (89)	22.51	316	0.058	0.058
43	53 (90,101)	22.67	7218	1.288	1.288
44	54 (79,99,113)	22.86	3494	0.402	0.402
45	55 (119,150)	23.15	170	0.014	0.014
46	56 (78,83,112,108)	23.24	613	0.123	0.123
47	57 (97,152,86)	23.45	3093	0.421	0.421
48	58 (81,87,117,125,115	23.62	5315	0.868	0.868
49	59 (116,85,111)	23.77	2859	0.369	0.369
50	60 (120,136)	23.89	2243	0.506	0.506
51	61 (77,110,148)	24.03	8611	1.388	1.388
52	63 (82)	24.39	2372	0.312	0.312
53	64 (151)	24.68	7270	1.183	1.183
54	65 (124,135)	24.82	2022	0.201	0.201
55	66 (144)	24.88	1630	0.395	0.395
56	67 (107,109,147)	24.96	458	0.074	0.074
57	68 (123)	25.05	108	0.017	0.017
58	69 (106,118,139,149)	25.12	17319	2.516	2.516
59	71 (114,134,143)	25.51	901	0.135	0.135
60	72 (122,131,133,142)	25.69	161	0.015	0.015
61	73 (146,165,188)	25.99	1914	0.259	0.259
62	74 (105,132,161)	26.11	7519	0.842	0.842
63	75 (153)	26.25	15913	1.893	1.893
64	77 (141)	26.76	5046	0.985	0.985
65	78 (179)	26.82	7334	1.124	1.124
66	79 (137)	27.04	325	0.053	0.053
67	80 (130,176)	27.16	2354	0.170	0.170
68	82 (138,163,164)	27.39	13453	1.705	1.705
69	83 (158,160,186)	27.57	1459	0.163	0.163
70	84 (126,129)	27.76	269	0.013	0.013
71	85 (166,178)	28.08	3363	0.790	0.790
72	87 (175,159)	28.37	630	0.135	0.135
73	88 (182,187)	28.51	18951	2.471	2.471
74	89 (128,162)	28.62	637	0.050	0.050
75	90 (183)	28.80	8449	1.122	1.122
76	91 (167)	29.06	174	0.026	0.026
77	92 (185)	29.37	3665	0.330	0.330
78	93 (174,181)	29.73	16188	2.134	2.134
79	94 (177)	29.99	7692	1.120	1.120
80	95 (156,171)	30.28	3577	0.486	0.486
81	96 (157,202)	30.52	2528	0.047	0.047
82	98 (173)	30.69	237	0.024	0.024
83	99 (201)	31.04	1951	0.277	0.277
84	100 (172,204)	31.28	2532	0.374	0.374

85	101 (192,197)	31.55	453	0.073	0.073
86	102 (180)	31.73	35268	3.989	3.989
87	103 (193)	31.97	2109	0.269	0.269
88	104 (191)	32.26	471	0.065	0.065
89	105 (200,169)	32.58	2468	0.302	0.302
90	106 (170)	33.70	11466	0.819	0.819
91	107 (190)	33.96	3315	0.268	0.268
92	108 (198)	34.78	887	0.075	0.075
93	109 (199)	34.99	15811	2.944	2.944
94	110 (196,203)	35.52	17319	2.935	2.935
95	111 (189)	36.65	194	0.017	0.017
96	112 (195)	38.10	5896	0.360	0.360
97	113 (208)	38.60	1241	0.200	0.200
98	114 (207)	39.49	935	0.079	0.079
99	115 (194)	40.83	15833	1.206	1.206
100	116 (205)	41.69	738	0.075	0.075
101	117 (206)	46.56	6487	0.509	0.509
102	118 (209)	52.29	137	0.012	0.012
103	Sum			113.750	113.750



Sample Name: CCCS1023A Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 10/23/2009 20:46:24 Extract Volume: 1  
Project Name: GC24\_Mar\_2009 Date Processed: 10/23/2009 22:15:32  
Sample Set Name: GC24\_102309a User Name: Amy Jo Arndt  
Processing Method: CSGB\_LL1X\_090509 Current Time: 23:06:07  
Run Time: 60 Minutes Current Date: 10/23/2009  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-205-7

Peak Results

	DB-1 Peak Number (PCB IUPAC #)	Ret. Time (min)	Area (uV*sec)	Solution Conc. (ng/mL)	Sample Amount (ng/mL)
1	2 (1)	11.52	1810	7.973	7.973
2	4 (3)	12.64	537	4.730	4.730
3	5 (4,10)	13.22	1227	2.291	2.291
4	6 (7,9)	14.07	2643	0.701	0.701
5	7 (6)	14.38	2154	1.213	1.213
6	8 (5,8)	14.56	9169	9.462	9.462
7	10 (19)	15.18	728	0.255	0.255
8	13 (12,13)	15.93	398	0.165	0.165
9	14 (15,18)	16.03	8006	2.872	2.872
10	15 (17)	16.12	4960	2.741	2.741
11	16 (24,27)	16.41	920	0.193	0.193
12	17 (16,32)	16.66	7569	2.917	2.917
13	19 (23,34,54)	17.12	40	0.013	0.013
14	20 (29)	17.30	114	0.026	0.026
15	21 (26)	17.43	1862	0.569	0.569
16	22 (25)	17.51	1159	0.251	0.251
17	23 (31)	17.70	10651	2.763	2.763
18	24 (28,50)	17.75	14796	3.017	3.017
19	25 (20,21,33,53)	18.10	10272	2.888	2.888
20	26 (22,51)	18.33	6797	1.983	1.983
21	27 (45)	18.55	2606	0.661	0.661
22	29 (46)	18.82	1039	0.302	0.302
23	31 (52,69,73)	19.12	10793	3.832	3.832
24	32 (43,49)	19.28	8870	1.587	1.587
25	33 (38,47)	19.40	3764	0.468	0.468
26	34 (48,75)	19.46	3928	0.659	0.659
27	36 (35)	19.70	25	0.010	0.010
28	37 (104,44)	19.85	12824	2.944	2.944
29	38 (37,42,59)	19.97	7793	2.139	2.139
30	39 (41,64,71,72)	20.32	14606	2.589	2.589
31	41 (68,96)	20.47	227	0.067	0.067
32	42 (40)	20.58	3426	0.706	0.706
33	43 (57,103)	20.83	107	0.022	0.022

34	44 (58,67,100)	21.01	569	0.091	0.091
35	45 (63)	21.17	796	0.128	0.128
36	46 (74,94,61)	21.33	7852	0.951	0.951
37	47 (70)	21.47	14818	2.233	2.233
38	48 (66,76,98,80,93,95,	21.58	20261	4.515	4.515
39	49 (55,91,121)	21.87	1956	0.361	0.361
40	50 (56,60)	22.18	13409	1.985	1.985
41	51 (84,92,155)	22.41	4104	1.535	1.535
42	52 (89)	22.51	355	0.064	0.064
43	53 (90,101)	22.67	7390	1.296	1.296
44	54 (79,99,113)	22.87	3575	0.404	0.404
45	55 (119,150)	23.14	173	0.014	0.014
46	56 (78,83,112,108)	23.23	598	0.118	0.118
47	57 (97,152,86)	23.45	3158	0.422	0.422
48	58 (81,87,117,125,115	23.62	5396	0.866	0.866
49	59 (116,85,111)	23.77	2975	0.378	0.378
50	60 (120,136)	23.89	2312	0.512	0.512
51	61 (77,110,148)	24.02	8937	1.416	1.416
52	63 (82)	24.39	2296	0.296	0.296
53	64 (151)	24.68	7392	1.182	1.182
54	65 (124,135)	24.81	1965	0.192	0.192
55	66 (144)	24.88	1729	0.412	0.412
56	67 (107,109,147)	24.95	477	0.076	0.076
57	68 (123)	25.05	95	0.015	0.015
58	69 (106,118,139,149)	25.12	17736	2.532	2.532
59	71 (114,134,143)	25.52	884	0.130	0.130
60	72 (122,131,133,142)	25.72	151	0.014	0.014
61	73 (146,165,188)	25.98	1956	0.260	0.260
62	74 (105,132,161)	26.11	7721	0.850	0.850
63	75 (153)	26.25	16328	1.909	1.909
64	77 (141)	26.76	5295	1.016	1.016
65	78 (179)	26.82	7402	1.114	1.114
66	79 (137)	27.02	242	0.038	0.038
67	80 (130,176)	27.17	2311	0.164	0.164
68	82 (138,163,164)	27.39	13667	1.702	1.702
69	83 (158,160,186)	27.56	1499	0.165	0.165
70	84 (126,129)	27.75	250	0.012	0.012
71	85 (166,178)	28.08	3399	0.785	0.785
72	87 (175,159)	28.37	656	0.138	0.138
73	88 (182,187)	28.51	19293	2.472	2.472
74	89 (128,162)	28.63	810	0.062	0.062
75	90 (183)	28.80	8582	1.119	1.119
76	91 (167)	29.06	124	0.018	0.018
77	92 (185)	29.38	3656	0.323	0.323
78	93 (174,181)	29.73	16606	2.152	2.152
79	94 (177)	29.98	7972	1.141	1.141
80	95 (156,171)	30.28	3764	0.502	0.502
81	96 (157,202)	30.51	2633	0.048	0.048
82	98 (173)	30.69	197	0.020	0.020
83	99 (201)	31.04	2009	0.280	0.280
84	100 (172,204)	31.28	2585	0.375	0.375

85	101 (192,197)	31.56	452	0.071	0.071
86	102 (180)	31.74	36168	4.020	4.020
87	103 (193)	31.97	2305	0.289	0.289
88	104 (191)	32.27	475	0.064	0.064
89	105 (200,169)	32.59	2468	0.297	0.297
90	106 (170)	33.70	11895	0.835	0.835
91	107 (190)	33.95	3439	0.273	0.273
92	108 (198)	34.77	926	0.077	0.077
93	109 (199)	35.00	16297	2.982	2.982
94	110 (196,203)	35.51	17999	2.998	2.998
95	111 (189)	36.64	272	0.023	0.023
96	112 (195)	38.10	6119	0.367	0.367
97	113 (208)	38.60	1160	0.183	0.183
98	114 (207)	39.47	787	0.065	0.065
99	115 (194)	40.83	16386	1.227	1.227
100	116 (205)	41.68	748	0.074	0.074
101	117 (206)	46.56	6539	0.504	0.504
102	118 (209)	52.31	4	0.000	0.000
103	Sum			116.162	116.162

# QC Sample Raw Data

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09100263
ELAP ID No:	11078	LRF ID:	CEBLK-62
Matrix:	ORGANIC FREE WATER	Client ID:	CEBLK-62(METHOD BLANK)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM19657B
% Moisture:	100	Lab File ID:	GC16-827-3
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	10/22/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	10/22/2009 14:20
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 182490

Percent Recovery (50 - 150 %): 109

SAMPLE TOTAL PCB CONCENTRATION: <9.10 ng/L U

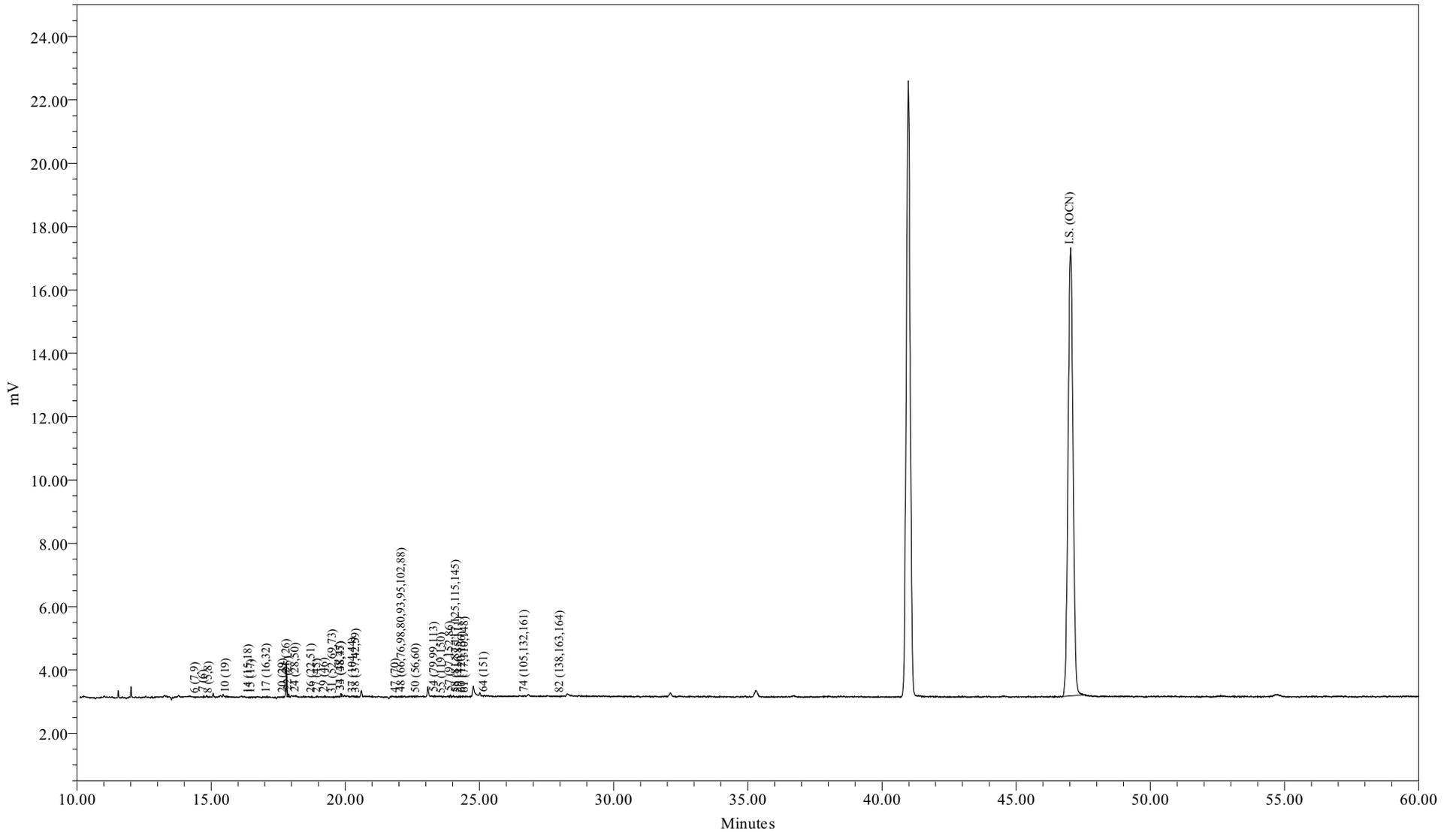
Visual Aroclor ID: No Aroclor Pattern Detected



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM19657B  
Sample ID: METHOD BLANK  
Date Acquired: 10/22/2009 14:20:40 EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-827-3

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 14:20:40  
 Lab Sample ID: AM19657B  
 LRF ID: CEBLK-62  
 Lab File ID: GC16-827-3

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <9.10 ng/L U

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.00	0.00
Di	0.00	0.00
Tri	73.92	77.57
Tetra	8.62	7.97
Penta	17.46	14.46
Hexa	0.00	0.00
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001		0	
A1242	23+24/31+28		0	
A1254SED	61/100	0.0715	100	
A1254BIO	69+75+82/149+153+138			
A1260	102/180		0	
A1268	115/194		0	

Ortho Cl / biphenyl Residue = 1.41

Meta + Para Cl / biphenyl Residue = 1.95

Total Cl / biphenyl Residue = 3.37

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 14:20:40  
 Lab Sample ID: AM19657B  
 LRF ID: CEBLK-62  
 Lab File ID: GC16-827-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.79	188.7				0.529	2.19	U
3	12.83	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.55	223.1				0.134	0.621	U
6	14.43	223.1	7			0.0721	0.219	U
7	14.73	223.1	67			0.158	0.347	U
8	14.92	223.1	37			0.542	2.56	U
9	15.48	223.1				0.294	25.0	U
10	15.56	257.5	54			0.0604	0.102	U
11	16.03	257.5				0.198	25.0	U
12	16.09	223.1				0.306	25.0	U
13	16.29	223.1				0.0559	0.0975	U
14	16.41	249.0	45			0.128	0.676	U
15	16.51	257.5	53	0.192	0.744	0.143	0.676	J
16	16.81	257.5				0.0374	0.0475	U
17	17.08	257.5	81			0.166	0.713	U
19	17.53	267.9				0.128	25.0	U
20	17.69	257.5	37	0.0282	0.110	0.0108	0.0194	
21	17.83	257.5	488	0.580	2.25	0.0606	0.132	
22	17.90	257.5	201	0.148	0.574	0.0426	0.0585	
23	18.11	257.5				0.487	0.753	U
24	18.17	257.5	18			0.211	0.964	U
25	18.52	259.5				0.105	0.726	U
26	18.75	258.7	25			0.120	0.530	U
27	18.96	292.0	41	0.0466	0.160	0.0367	0.163	J
28	19.12	257.5				0.375	25.0	U
29	19.24	292.0	55			0.127	0.127	U
30	19.39	257.5				0.120	25.0	U
31	19.55	292.0	39			0.204	0.872	U
32	19.72	292.0				0.0978	0.420	U
33	19.85	292.0	196			0.0656	0.183	U
34	19.86	292.0	147	0.0639	0.219	0.0579	0.183	J
35	20.04	292.0				0.205	25.0	U
36	20.13	257.5				0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.30	292.0	66			0.160	0.786	U
38	20.42	272.4	44			0.115	0.475	U
39	20.77	292.0				0.121	0.749	U
41	20.93	326.4				0.115	25.0	U
42	21.03	292.0				0.0968	0.172	U
43	21.29	298.9				0.152	25.0	U
44	21.45	298.9				0.0225	0.0402	U
45	21.62	292.0				0.0299	0.0384	U
46	21.79	292.0				0.0821	0.347	U
47	21.89	292.0	48			0.164	0.621	U
48	22.11	293.5	66			0.243	1.32	U
49	22.33	324.7				0.0376	0.0932	U
50	22.66	292.0	35			0.359	0.640	U
51	22.88	326.4				0.0888	0.329	U
52	22.98	326.4				0.0384	0.0384	U
53	23.14	326.4				0.0691	0.329	U
54	23.33	326.4	48			0.101	0.135	U
55	23.61	326.4	15			0.00644	0.0102	U
56	23.71	326.4				0.0647	0.0647	U
57	23.91	326.4	147	0.0911	0.279	0.0435	0.102	J
58	24.14	326.4	46			0.0841	0.212	U
59	24.24	326.4	81	0.0614	0.188	0.0484	0.128	J
60	24.38	360.9	37			0.0772	0.137	U
61	24.48	326.4	47	0.0715	0.219	0.0668	0.389	J
62	24.79	360.9				0.113	25.0	U
63	24.87	326.4				0.0201	0.0804	U
64	25.19	360.9	42			0.0518	0.311	U
65	25.30	350.5				0.0149	0.0530	U
66	25.37	360.9				0.0541	0.110	U
67	25.44	336.8				0.0348	0.0475	U
68	25.53	326.4				0.125	25.0	U
69	25.62	337.5				0.0938	0.731	U
70	25.74	360.9				0.0829	25.0	U
71	26.04	347.8				0.0348	0.0369	U
72	26.23	336.8				0.00638	0.0106	U
73	26.52	360.9				0.0320	0.0713	U
74	26.69	347.8	37			0.0721	0.248	U
75	26.82	360.9				0.109	0.538	U
76	26.93	360.9				0.107	25.0	U
77	27.35	360.9				0.0637	0.311	U
78	27.42	395.3				0.0470	0.267	U
79	27.65	360.9				0.0501	0.0501	U
80	27.80	360.9				0.0151	0.0475	U
82	28.02	360.9	30			0.108	0.493	U
83	28.21	360.9				0.0450	0.0457	U
84	28.42	360.9				0.00310	0.00473	U
85	28.77	395.3				0.0677	0.201	U
87	29.08	395.3				0.0156	0.0731	U
88	29.22	395.3				0.102	0.658	U
89	29.35	360.9				0.0199	0.0366	U
90	29.53	395.3				0.0679	0.311	U
91	29.83	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.0225	0.0859	U
93	30.53	394.3				0.102	0.585	U
94	30.81	394.3				0.0936	0.311	U
95	31.11	382.2				0.0871	0.144	U
96	31.38	429.8				0.00942	0.0121	U
98	31.55	395.3				0.0133	0.0139	U
99	31.92	429.8				0.0863	0.0863	U
100	32.18	395.3				0.127	0.127	U
101	32.48	429.8				0.217	0.217	U
102	32.67	395.3				0.150	1.11	U
103	32.92	395.3				0.0640	0.0768	U
104	33.23	395.3				0.0374	0.0438	U
105	33.58	429.8				0.0460	0.0786	U
106	34.76	395.3				0.0538	0.234	U
107	35.04	395.3				0.0213	0.0768	U
108	35.92	429.8				0.0324	0.0438	U
109	36.16	429.8				0.116	0.768	U
110	36.71	429.8				0.184	0.786	U
111	37.90	395.3				0.0231	0.0231	U
112	39.49	429.8				0.0368	0.101	U
113	40.01	464.2				0.0438	0.0903	U
114	40.97	464.2				0.0154	0.0340	U
115	42.42	429.8				0.0969	0.329	U
116	43.32	429.8				0.0838	0.0838	U
117	48.57	464.2				0.0384	0.124	U
118	54.73	498.6				0.0126	0.0126	U

Total Concentration = <9.10 ng/L 9.10 32.2 U

Total Nanomoles = 0.005

Average Molecular Weight = 270.2

Number of Calibrated Peaks Found = 32

Internal Standard Retention Time = 47.03 minutes

Internal Standard Peak Area = 182489.9

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 14:20:40  
 Lab Sample ID: AM19657B  
 LRF ID: CEBLK-62  
 Lab File ID: GC16-827-3

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.79	1:1	001		2	-	-
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.55	2:2	004 010		2-2; 26	-	-
6	14.43	2:1	007 009		24; 25	-	-
7	14.73	2:1	006		2-3	-	-
8	14.92	2:1	005 008		23; 2-4	-	-
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019		26-2	-	-
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013		34; 3-4	-	-
14	16.41	2:0 3:2	015 018		4-4; 25-2	-	-
15	16.51	3:2	017	0.3511	24-2	14.942	15.680
16	16.81	3:2	024 027		236; 26-3	-	-
17	17.08	3:2	016 032		23-2; 26-4	-	-
19	17.53	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.69	3:1	029	0.3761	245	2.199	2.308
21	17.83	3:1	026	0.3791	25-3	45.252	47.486
22	17.90	3:1	025	0.3806	24-3	11.526	12.095
23	18.11	3:1	031		25-4	-	-
24	18.17	3:1 4:3	028 050		24-4; 246-2	-	-
25	18.52	3:1 4:3	020 021 033 053		23-3; 234; 34-2; 25-26	-	-
26	18.75	3:1 4:3	022 051		23-4; 24-26	-	-
27	18.96	4:3	045	0.4031	236-2	3.636	3.365
28	19.12	3:0	036		35-3	-	-
29	19.24	4:3	046		23-26	-	-
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073		25-25; 246-3; 26-35	-	-
32	19.72	4:2	043 049		235-2; 24-25	-	-
33	19.85	4:2	038 047		345; 24-24	-	-
34	19.86	4:2	048 075	0.4223	245-2; 246-4	4.981	4.610
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.13	3:0	035		34-3	-	-
37	20.30	5:4 4:2	104 044		246-26; 23-25	-	-
38	20.42	3:0 4:2	037 042 059		34-4; 23-24; 236-3	-	-
39	20.77	4:2	041 064 071 072		234-2; 236-4; 26-34; 25-35	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096		24-35; 236-26	-	-
42	21.03	4:2	040		23-23	-	-
43	21.29	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.45	4:1 5:3	058 067 100		23-35; 245-3; 246-24	-	-
45	21.62	4:1	063		235-4	-	-
46	21.79	4:1 5:3	074 094 061		245-4; 235-26; 2345	-	-
47	21.89	4:1	070		25-34	-	-
48	22.11	4:1 5:3	066 076 098 080 093 095 102 088		24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	-	-
49	22.33	4:1 5:3	055 091 121		234-3; 236-24; 246-35	-	-
50	22.66	4:1	056 060		23-34; 234-4	-	-
51	22.88	5:3 6:4	084 092 155		236-23; 235-25; 246-246	-	-
52	22.98	5:3	089		234-26	-	-
53	23.14	5:2	090 101		235-24; 245-25	-	-
54	23.33	5:2	079 099 113		34-35; 245-24; 236-35	-	-
55	23.61	5:2 6:4	119 150		246-34; 236-246	-	-
56	23.71	5:2	078 083 112 108		345-3; 235-23; 2356-3; 2346-3	-	-
57	23.91	5:2 6:4	097 152 086	0.5084	245-23; 2356-26; 2345-2	7.102	5.880
58	24.14	5:2	081 087 117 125 115 145		345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	-	-
59	24.24	5:2	116 085 111	0.5154	23456; 234-24; 235-35	4.788	3.964
60	24.38	6:4	120 136		245-35; 236-236	-	-
61	24.48	5:2	077 110 148	0.5205	34-34; 236-34; 235-246	5.574	4.614
62	24.79	6:3	154		245-246	-	-
63	24.87	5:2	082		234-23	-	-
64	25.19	6:3	151		2356-25	-	-
65	25.30	5:1 6:3	124 135		345-25; 235-236	-	-
66	25.37	6:3	144		2346-25	-	-
67	25.44	5:1 6:3	107 109 147		234-35; 235-34; 2356-24	-	-
68	25.53	5:1	123		345-24	-	-
69	25.62	5:1 6:3	106 118 139 149		2345-3; 245-34; 2346-24; 236-245	-	-
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143		2345-4; 2356-23; 2345-26	-	-
72	26.23	5:1 6:3	122 131 133 142		345-23; 2346-23; 235-235; 23456-2	-	-
73	26.52	6:2	146 165 188		235-245; 2356-35; 2356-246	-	-
74	26.69	5:1 6:3	105 132 161		234-34; 234-236; 2346-35	-	-
75	26.82	6:2	153		245-245	-	-
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.35	6:2	141		2345-25	-	-
78	27.42	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.80	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.02	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	126 129		345-34; 2345-23	-	-
85	28.77	7:3	166 178		23456-4; 2356-235	-	-
87	29.08	7:3	175 159		2346-235; 2345-35	-	-
88	29.22	7:3	182 187		2345-246; 2356-245	-	-
89	29.35	6:2	128 162		234-234; 235-345	-	-
90	29.53	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.15	7:3	185		23456-25	-	-
93	30.53	7:3	174 181		2345-236; 23456-24	-	-
94	30.81	7:3	177		2356-234	-	-
95	31.11	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.38	8:4	157 202		234-345; 2356-2356	-	-
98	31.55	7:3	173		23456-23	-	-
99	31.92	8:4	201		2346-2356	-	-
100	32.18	7:2	172 204		2345-235; 23456-246	-	-
101	32.48	8:4	192 197		23456-35; 2346-2346	-	-
102	32.67	7:2	180		2345-245	-	-
103	32.92	7:2	193		2356-345	-	-
104	33.23	7:2	191		2346-345	-	-
105	33.58	8:4	200 169		23456-236; 345-345	-	-
106	34.76	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = <9.10 ng/L

Total Nanomoles = 0.005

Average Molecular Weight = 270.2

Number of Calibrated Peaks Found = 32

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	77
72 ( <b>122</b> ,131,133,142)	122
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169

NOTE: Hudson River Bias Correction applied (v09/23/2004).

Bias Factors: Peak 5 (0.610); Peak 8 (0.360); Peak 14 (1.26);

PCB SAMPLE ANALYSIS DATA SHEET

Laboratory Name:	Northeast Analytical, Inc.	SDG No:	09100263
ELAP ID No:	11078	LRF ID:	LCS-62
Matrix:	ORGANIC FREE WATER	Client ID:	LCS-62(LAB CONTROL SPIKE)
Sample Wt(Dry)/Vol:	1000 mL	Lab Sample ID:	AM19657L
% Moisture:	100	Lab File ID:	GC16-827-4
Extraction:	Solid Phase Extraction - 1L	Date Received:	
Conc. Extract Volume:	5000 uL	Date Extracted:	10/22/2009
Injection Volume:	0.5 uL	Date/Time Analyzed:	10/22/2009 15:28
Analytical SOP Reference:	SOP NE207_03.DOC	Dilution Factor:	1
Extraction SOP Reference:	SOP NE178_03.DOC	Sample Cleanup:	YES
GC Column:	Agilent DB-1; 30 meter; 0.25 micron phase thickness		

OCN (I.S.) Peak Area: 187797

Percent Recovery (50 - 150 %): 112

SAMPLE TOTAL PCB CONCENTRATION: 188 ng/L

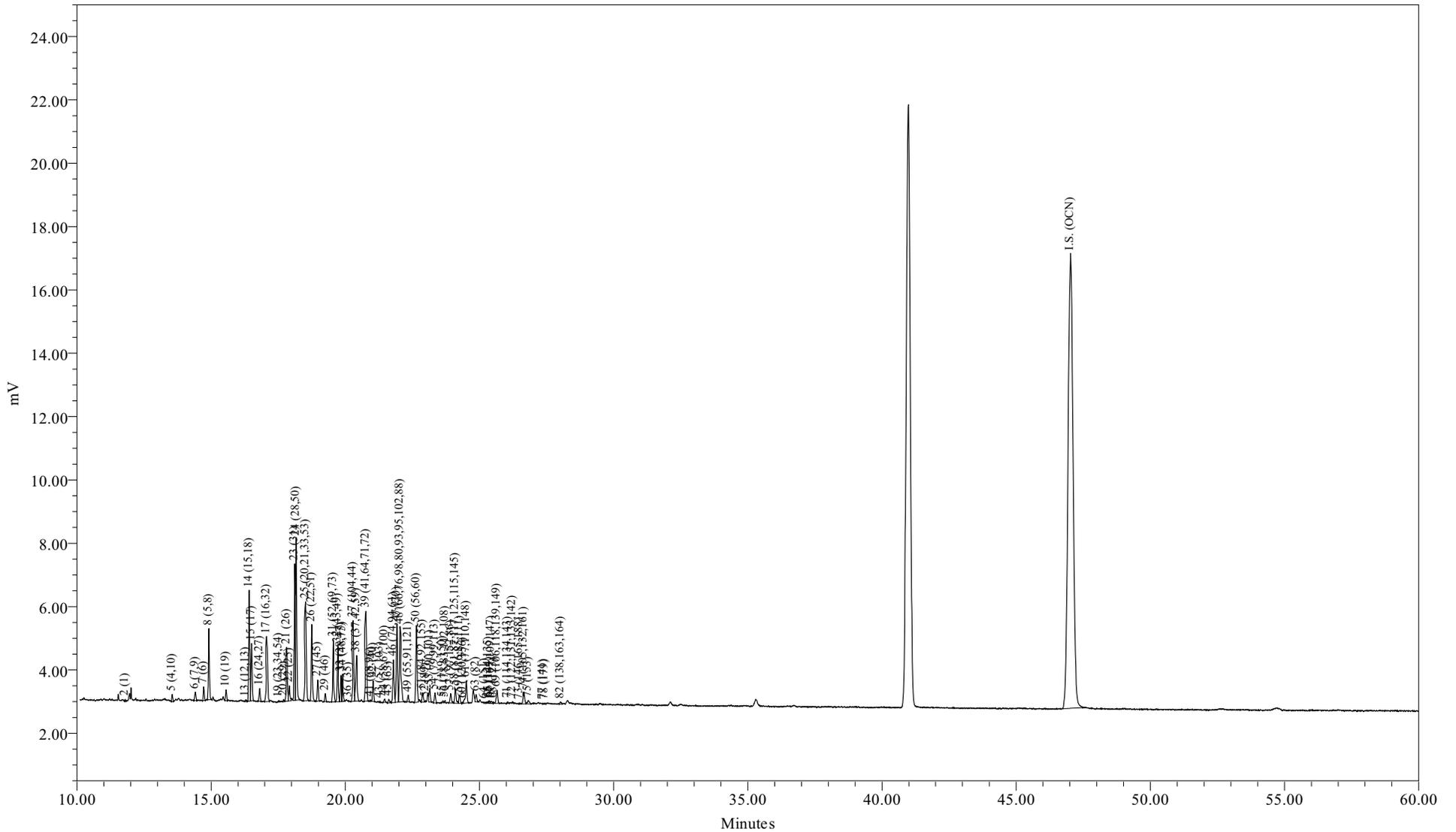
Visual Aroclor ID: PCB Added to Sample



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: AM19657L  
Sample ID: LAB CONTROL SPIKE  
Date Acquired: 10/22/2009 15:28:47 EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-827-4

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 15:28:47  
 Lab Sample ID: AM19657L  
 LRF ID: LCS-62  
 Lab File ID: GC16-827-4

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 188 ng/L

PCB Homolog Distribution

Homologs	Weight %	Mole %
Mono	0.65	0.90
Di	17.54	20.40
Tri	47.96	48.78
Tetra	28.14	25.36
Penta	5.03	4.04
Hexa	0.69	0.51
Hepta	0.00	0.00
Octa	0.00	0.00
Nona	0.00	0.00
Deca	0.00	0.00

Nominal 'Aroclor' Distribution

Aroclor	Indicator Peak (PK # / IUPAC #)	Amount ng/L	Percent Sediment	Percent Biota
A1221	2/001	1.2168	4.59	4.74
A1242	23+24/31+28	23.3673	88.1	91.1
A1254SED	61/100	1.9455	7.33	
A1254BIO	69+75+82/149+153+138	1.0715		4.18
A1260	102/180		0	0
A1268	115/194		0	0

Ortho Cl / biphenyl Residue = 1.44

Meta + Para Cl / biphenyl Residue = 1.69

Total Cl / biphenyl Residue = 3.13

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 15:28:47  
 Lab Sample ID: AM19657L  
 LRF ID: LCS-62  
 Lab File ID: GC16-827-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
2	11.80	188.7	90	1.22	6.45	0.529	2.19	J
3	12.83	188.7				6.63	1000	U
4	12.93	188.7				0.355	1.28	U
5	13.55	223.1	564	4.48	20.1	0.134	0.621	
6	14.41	223.1	785	0.865	3.88	0.0721	0.219	
7	14.72	223.1	1033	2.15	9.66	0.158	0.347	
8	14.92	223.1	5441	22.4	101	0.542	2.56	
9	15.48	223.1				0.294	25.0	U
10	15.56	257.5	865	1.15	4.48	0.0604	0.102	
11	16.03	257.5				0.198	25.0	U
12	16.09	223.1				0.306	25.0	U
13	16.29	223.1	131	0.236	1.06	0.0559	0.0975	
14	16.42	249.0	9082	11.5	46.3	0.128	0.676	
15	16.51	257.5	4914	12.9	50.0	0.143	0.676	B
16	16.81	257.5	1094	0.950	3.69	0.0374	0.0475	
17	17.06	257.5	8854	13.3	51.7	0.166	0.713	
19	17.52	267.9	79			0.128	25.0	U
20	17.71	257.5	139	0.1000	0.388	0.0108	0.0194	B
21	17.82	257.5	5858	6.54	25.4	0.0606	0.132	B
22	17.91	257.5	1421	1.05	4.09	0.0426	0.0585	B
23	18.12	257.5	11121	10.3	40.0	0.487	0.753	
24	18.17	257.5	15456	13.1	50.7	0.211	0.964	
25	18.52	259.5	10757	11.6	44.7	0.105	0.726	
26	18.75	258.7	7033	8.28	32.0	0.120	0.530	
27	18.98	292.0	1868	1.79	6.14	0.0367	0.163	B
28	19.12	257.5				0.375	25.0	U
29	19.25	292.0	683	0.703	2.41	0.127	0.127	
30	19.39	257.5				0.120	25.0	U
31	19.55	292.0	5466	7.30	25.0	0.204	0.872	
32	19.72	292.0	5204	3.57	12.2	0.0978	0.420	
33	19.84	292.0	2453	1.15	3.95	0.0656	0.183	
34	19.90	292.0	2507	1.64	5.63	0.0579	0.183	B
35	20.04	292.0				0.205	25.0	U
36	20.12	257.5	46			0.144	25.0	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
37	20.29	292.0	7431	6.48	22.2	0.160	0.786	
38	20.42	272.4	5588	5.93	21.8	0.115	0.475	
39	20.77	292.0	8786	5.98	20.5	0.121	0.749	
41	20.93	326.4	88			0.115	25.0	U
42	21.04	292.0	1905	1.56	5.35	0.0968	0.172	
43	21.29	298.9	74			0.152	25.0	U
44	21.47	298.9	343	0.219	0.732	0.0225	0.0402	
45	21.62	292.0	433	0.250	0.857	0.0299	0.0384	
46	21.79	292.0	4275	2.08	7.11	0.0821	0.347	
47	21.93	292.0	7756	4.57	15.7	0.164	0.621	
48	22.04	293.5	9138	7.99	27.2	0.243	1.32	
49	22.34	324.7	600	0.441	1.36	0.0376	0.0932	
50	22.65	292.0	7825	4.62	15.8	0.359	0.640	
51	22.88	326.4	988	1.49	4.56	0.0888	0.329	
52	23.00	326.4	83	0.0561	0.172	0.0384	0.0384	
53	23.15	326.4	1411	1.01	3.10	0.0691	0.329	
54	23.34	326.4	1063	0.479	1.47	0.101	0.135	
55	23.63	326.4	213	0.0538	0.165	0.00644	0.0102	
56	23.72	326.4	205	0.149	0.455	0.0647	0.0647	
57	23.93	326.4	1061	0.539	1.65	0.0435	0.102	B
58	24.10	326.4	1682	1.07	3.26	0.0841	0.212	
59	24.26	326.4	930	0.490	1.50	0.0484	0.128	B
60	24.39	360.9	73			0.0772	0.137	U
61	24.51	326.4	2755	1.95	5.96	0.0668	0.389	B
62	24.79	360.9				0.113	25.0	U
63	24.87	326.4	816	0.402	1.23	0.0201	0.0804	
64	25.19	360.9	75			0.0518	0.311	U
65	25.33	350.5	213	0.0680	0.194	0.0149	0.0530	
66	25.36	360.9	203	0.199	0.552	0.0541	0.110	
67	25.44	336.8	249	0.165	0.489	0.0348	0.0475	
68	25.52	326.4	84			0.125	25.0	U
69	25.65	337.5	1537	0.800	2.37	0.0938	0.731	
70	25.74	360.9				0.0829	25.0	U
71	26.04	347.8	177	0.0811	0.233	0.0348	0.0369	
72	26.23	336.8	88	0.0211	0.0625	0.00638	0.0106	
73	26.48	360.9	113	0.0588	0.163	0.0320	0.0713	J
74	26.66	347.8	1518	0.658	1.89	0.0721	0.248	
75	26.81	360.9	576	0.221	0.611	0.109	0.538	J
76	26.93	360.9				0.107	25.0	U
77	27.37	360.9	61			0.0637	0.311	U
78	27.43	395.3	60			0.0470	0.267	U
79	27.65	360.9				0.0501	0.0501	U
80	27.80	360.9				0.0151	0.0475	U
82	28.02	360.9	271			0.108	0.493	U
83	28.21	360.9				0.0450	0.0457	U
84	28.42	360.9				0.00310	0.00473	U
85	28.77	395.3				0.0677	0.201	U
87	29.08	395.3				0.0156	0.0731	U
88	29.22	395.3				0.102	0.658	U
89	29.35	360.9				0.0199	0.0366	U
90	29.53	395.3				0.0679	0.311	U
91	29.83	360.9				0.0348	0.0348	U

DB-1 Peak Number	Retention Time	Molecular Weight	Peak Area	Amount (ng/L)	Sample (Picomoles/L)	MDL (ng/L)	RL (ng/L)	Qual
92	30.15	394.3				0.0225	0.0859	U
93	30.53	394.3				0.102	0.585	U
94	30.81	394.3				0.0936	0.311	U
95	31.11	382.2				0.0871	0.144	U
96	31.38	429.8				0.00942	0.0121	U
98	31.55	395.3				0.0133	0.0139	U
99	31.92	429.8				0.0863	0.0863	U
100	32.18	395.3				0.127	0.127	U
101	32.48	429.8				0.217	0.217	U
102	32.67	395.3				0.150	1.11	U
103	32.92	395.3				0.0640	0.0768	U
104	33.23	395.3				0.0374	0.0438	U
105	33.58	429.8				0.0460	0.0786	U
106	34.76	395.3				0.0538	0.234	U
107	35.04	395.3				0.0213	0.0768	U
108	35.92	429.8				0.0324	0.0438	U
109	36.16	429.8				0.116	0.768	U
110	36.71	429.8				0.184	0.786	U
111	37.90	395.3				0.0231	0.0231	U
112	39.49	429.8				0.0368	0.101	U
113	40.01	464.2				0.0438	0.0903	U
114	40.97	464.2				0.0154	0.0340	U
115	42.42	429.8				0.0969	0.329	U
116	43.32	429.8				0.0838	0.0838	U
117	48.57	464.2				0.0384	0.124	U
118	54.73	498.6				0.0126	0.0126	U

Total Concentration = 188 ng/L

9.10

32.2

Total Nanomoles = 0.719

Average Molecular Weight = 261.9

Number of Calibrated Peaks Found = 65

Internal Standard Retention Time = 47.02 minutes

Internal Standard Peak Area = 187797.1

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC091021-BNEA-01  
 Date Acquired: 10/22/2009 15:28:47  
 Lab Sample ID: AM19657L  
 LRF ID: LCS-62  
 Lab File ID: GC16-827-4

Type for Mixed Peak Deconvolution = S

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
2	11.80	1:1	001	0.2510	2	0.646	0.896
3	12.83	1:0	002		3	-	-
4	12.93	1:0	003		4	-	-
5	13.55	2:2	004 010	0.2882	2-2; 26	2.379	2.793
6	14.41	2:1	007 009	0.3065	24; 25	0.459	0.539
7	14.72	2:1	006	0.3131	2-3	1.143	1.342
8	14.92	2:1	005 008	0.3173	23; 2-4	11.912	13.985
9	15.48	2:0	014		35	-	-
10	15.56	3:3	019	0.3309	26-2	0.612	0.623
11	16.03	3:2	030		246	-	-
12	16.09	2:0	011		3-3	-	-
13	16.29	2:0	012 013	0.3464	34; 3-4	0.125	0.147
14	16.42	2:0 3:2	015 018	0.3492	4-4; 25-2	6.123	6.441
15	16.51	3:2	017	0.3511	24-2	6.833	6.951
16	16.81	3:2	024 027	0.3575	236; 26-3	0.504	0.513
17	17.06	3:2	016 032	0.3628	23-2; 26-4	7.067	7.188
19	17.52	3:1 4:4	023 034 054		235; 35-2; 26-26	-	-
20	17.71	3:1	029	0.3766	245	0.053	0.054
21	17.82	3:1	026	0.3790	25-3	3.472	3.532
22	17.91	3:1	025	0.3809	24-3	0.559	0.569
23	18.12	3:1	031	0.3854	25-4	5.472	5.566
24	18.17	3:1 4:3	028 050	0.3864	24-4; 246-2	6.929	7.049
25	18.52	3:1 4:3	020 021 033 053	0.3939	23-3; 234; 34-2; 25-26	6.160	6.218
26	18.75	3:1 4:3	022 051	0.3988	23-4; 24-26	4.396	4.451
27	18.98	4:3	045	0.4037	236-2	0.951	0.853
28	19.12	3:0	036		35-3	-	-
29	19.25	4:3	046	0.4094	23-26	0.373	0.335
30	19.39	3:0	039		35-4	-	-
31	19.55	4:2	052 069 073	0.4158	25-25; 246-3; 26-35	3.874	3.475
32	19.72	4:2	043 049	0.4194	235-2; 24-25	1.893	1.698
33	19.84	4:2	038 047	0.4219	345; 24-24	0.612	0.549
34	19.90	4:2	048 075	0.4232	245-2; 246-4	0.872	0.782
35	20.04	4:2	062 065		2346; 2356	-	-
36	20.12	3:0	035		34-3	-	-
37	20.29	5:4 4:2	104 044	0.4315	246-26; 23-25	3.439	3.085
38	20.42	3:0 4:2	037 042 059	0.4343	34-4; 23-24; 236-3	3.149	3.028
39	20.77	4:2	041 064 071 072	0.4417	234-2; 236-4; 26-34; 25-35	3.174	2.847

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
41	20.93	5:4	068 096		24-35; 236-26	-	-
42	21.04	4:2	040	0.4475	23-23	0.829	0.744
43	21.29	4:1 5:3	057 103		235-3; 246-25	-	-
44	21.47	4:1 5:3	058 067 100	0.4566	23-35; 245-3; 246-24	0.116	0.102
45	21.62	4:1	063	0.4598	235-4	0.133	0.119
46	21.79	4:1 5:3	074 094 061	0.4634	245-4; 235-26; 2345	1.102	0.988
47	21.93	4:1	070	0.4664	25-34	2.428	2.178
48	22.04	4:1 5:3	066 076 098 080 093 095 102 088	0.4687	24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2	4.241	3.784
49	22.34	4:1 5:3	055 091 121	0.4751	234-3; 236-24; 246-35	0.234	0.189
50	22.65	4:1	056 060	0.4817	23-34; 234-4	2.454	2.201
51	22.88	5:3 6:4	084 092 155	0.4866	236-23; 235-25; 246-246	0.790	0.634
52	23.00	5:3	089	0.4892	234-26	0.030	0.024
53	23.15	5:2	090 101	0.4923	235-24; 245-25	0.538	0.431
54	23.34	5:2	079 099 113	0.4964	34-35; 245-24; 236-35	0.254	0.204
55	23.63	5:2 6:4	119 150	0.5026	246-34; 236-246	0.029	0.023
56	23.72	5:2	078 083 112 108	0.5045	345-3; 235-23; 2356-3; 2346-3	0.079	0.063
57	23.93	5:2 6:4	097 152 086	0.5089	245-23; 2356-26; 2345-2	0.286	0.230
58	24.10	5:2	081 087 117 125 115 145	0.5125	345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26	0.566	0.454
59	24.26	5:2	116 085 111	0.5160	23456; 234-24; 235-35	0.260	0.209
60	24.39	6:4	120 136		245-35; 236-236	-	-
61	24.51	5:2	077 110 148	0.5213	34-34; 236-34; 235-246	1.032	0.829
62	24.79	6:3	154		245-246	-	-
63	24.87	5:2	082	0.5289	234-23	0.213	0.171
64	25.19	6:3	151		2356-25	-	-
65	25.33	5:1 6:3	124 135	0.5387	345-25; 235-236	0.036	0.027
66	25.36	6:3	144	0.5393	2346-25	0.106	0.077
67	25.44	5:1 6:3	107 109 147	0.5410	234-35; 235-34; 2356-24	0.087	0.068
68	25.52	5:1	123		345-24	-	-
69	25.65	5:1 6:3	106 118 139 149	0.5455	2345-3; 245-34; 2346-24; 236-245	0.425	0.329
70	25.74	6:3	140		234-246	-	-
71	26.04	5:1 6:3	114 134 143	0.5538	2345-4; 2356-23; 2345-26	0.043	0.032
72	26.23	5:1 6:3	122 131 133 142	0.5578	345-23; 2346-23; 235-235; 23456-2	0.011	0.009
73	26.48	6:2	146 165 188	0.5632	235-245; 2356-35; 2356-246	0.031	0.023
74	26.66	5:1 6:3	105 132 161	0.5670	234-34; 234-236; 2346-35	0.349	0.263
75	26.81	6:2	153	0.5702	245-245	0.117	0.085
76	26.93	6:2	127 168 184		345-35; 246-345; 2346-246	-	-
77	27.37	6:2	141		2345-25	-	-
78	27.43	7:4	179		2356-236	-	-
79	27.65	6:2	137		2345-24	-	-
80	27.80	6:2 7:4	130 176		234-235; 2346-236	-	-
82	28.02	6:2	138 163 164		234-245; 2356-34; 236-345	-	-
83	28.21	6:2	158 160 186		2346-34; 23456-3; 23456-26	-	-
84	28.42	6:2	126 129		345-34; 2345-23	-	-
85	28.77	7:3	166 178		23456-4; 2356-235	-	-
87	29.08	7:3	175 159		2346-235; 2345-35	-	-
88	29.22	7:3	182 187		2345-246; 2356-245	-	-
89	29.35	6:2	128 162		234-234; 235-345	-	-
90	29.53	7:3	183		2346-245	-	-
91	29.83	6:1	167		245-345	-	-
92	30.15	7:3	185		23456-25	-	-
93	30.53	7:3	174 181		2345-236; 23456-24	-	-
94	30.81	7:3	177		2356-234	-	-
95	31.11	6:1 7:3	156 171		2345-34; 2346-234	-	-
96	31.38	8:4	157 202		234-345; 2356-2356	-	-
98	31.55	7:3	173		23456-23	-	-
99	31.92	8:4	201		2346-2356	-	-
100	32.18	7:2	172 204		2345-235; 23456-246	-	-
101	32.48	8:4	192 197		23456-35; 2346-2346	-	-
102	32.67	7:2	180		2345-245	-	-
103	32.92	7:2	193		2356-345	-	-
104	33.23	7:2	191		2346-345	-	-
105	33.58	8:4	200 169		23456-236; 345-345	-	-
106	34.76	7:2	170		2345-234	-	-

DB-1 Peak <sup>1</sup> Number	Retention Time	T-CL:O-CL	IUPAC # <sup>2</sup>	RRT	Congeners <sup>3</sup>	Weight Percent	Mole Percent
107	35.04	7:2	<b>190</b>		23456-34	-	-
108	35.92	8:3	<b>198</b>		23456-235	-	-
109	36.16	8:3	<b>199</b>		2345-2356	-	-
110	36.71	8:3	<b>196 203</b>		2345-2346; 23456-245	-	-
111	37.90	7:1	<b>189</b>		2345-345	-	-
112	39.49	8:3	<b>195</b>		23456-234	-	-
113	40.01	9:4	<b>208</b>		23456-2356	-	-
114	40.97	9:4	<b>207</b>		23456-2346	-	-
115	42.42	8:2	<b>194</b>		2345-2345	-	-
116	43.32	8:2	<b>205</b>		23456-345	-	-
117	48.57	9:3	<b>206</b>		23456-2345	-	-
118	54.73	10:4	<b>209</b>		23456-23456	-	-

Concentration = 188 ng/L

Total Nanomoles = 0.719

Average Molecular Weight = 261.9

Number of Calibrated Peaks Found = 65

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

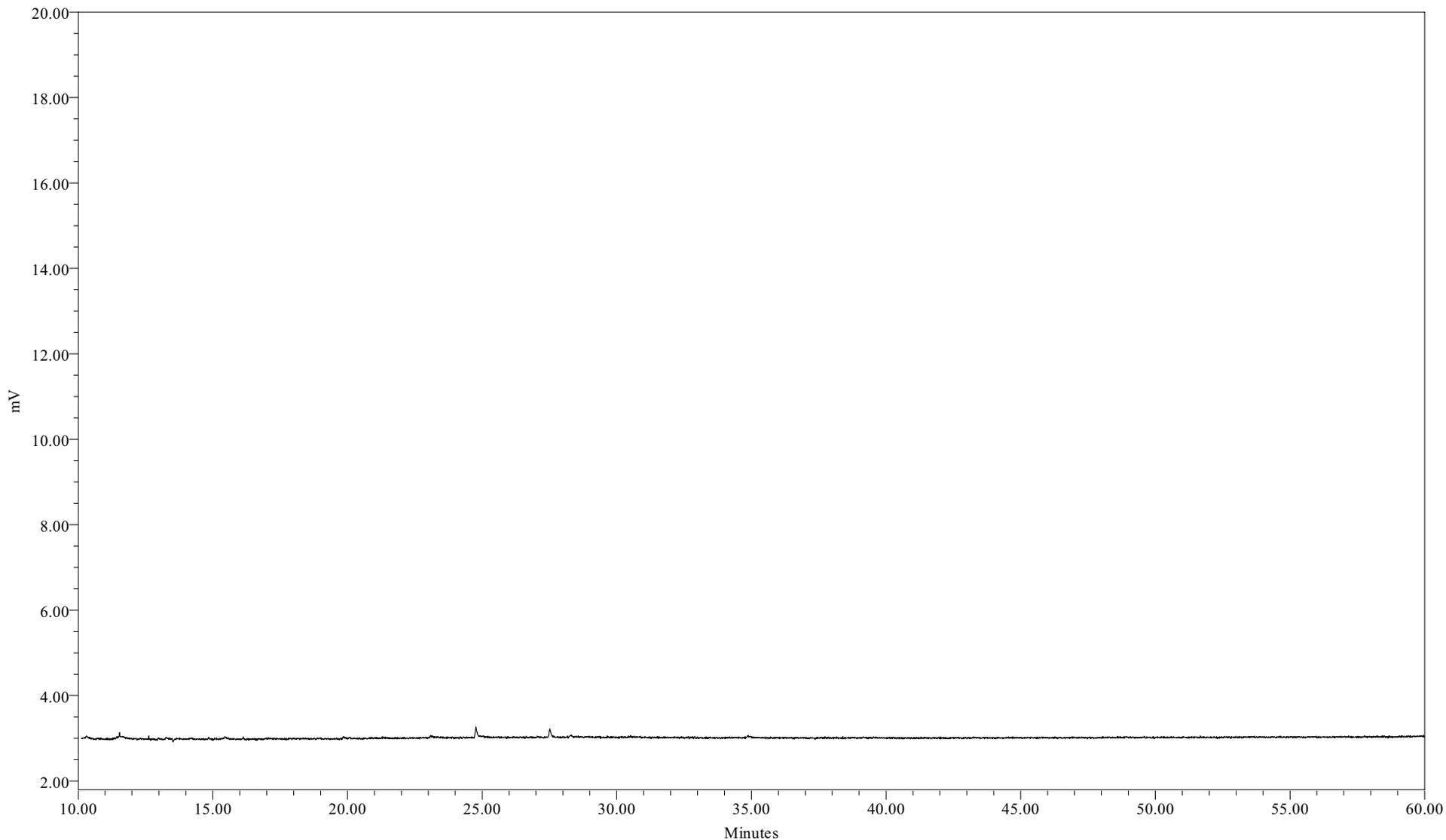
<u>DB-1 Peak</u>	<u>Resolved Congener (IUPAC #)</u>
37 ( <b>44</b> ,104)	104
48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88)	80,88,93
56 (78, <b>83</b> ,112,108)	108
61 ( <b>77</b> , <b>110</b> ,148)	<b>77</b>
72 ( <b>122</b> ,131,133,142)	<b>122</b>
89 ( <b>128</b> ,162)	162
105 ( <b>200</b> ,169)	169



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

www.nealab.com



Sample Name: 091022B01  
Sample ID: HEXANE BLANK  
Date Acquired: 10/22/2009 12:04:12 EDT

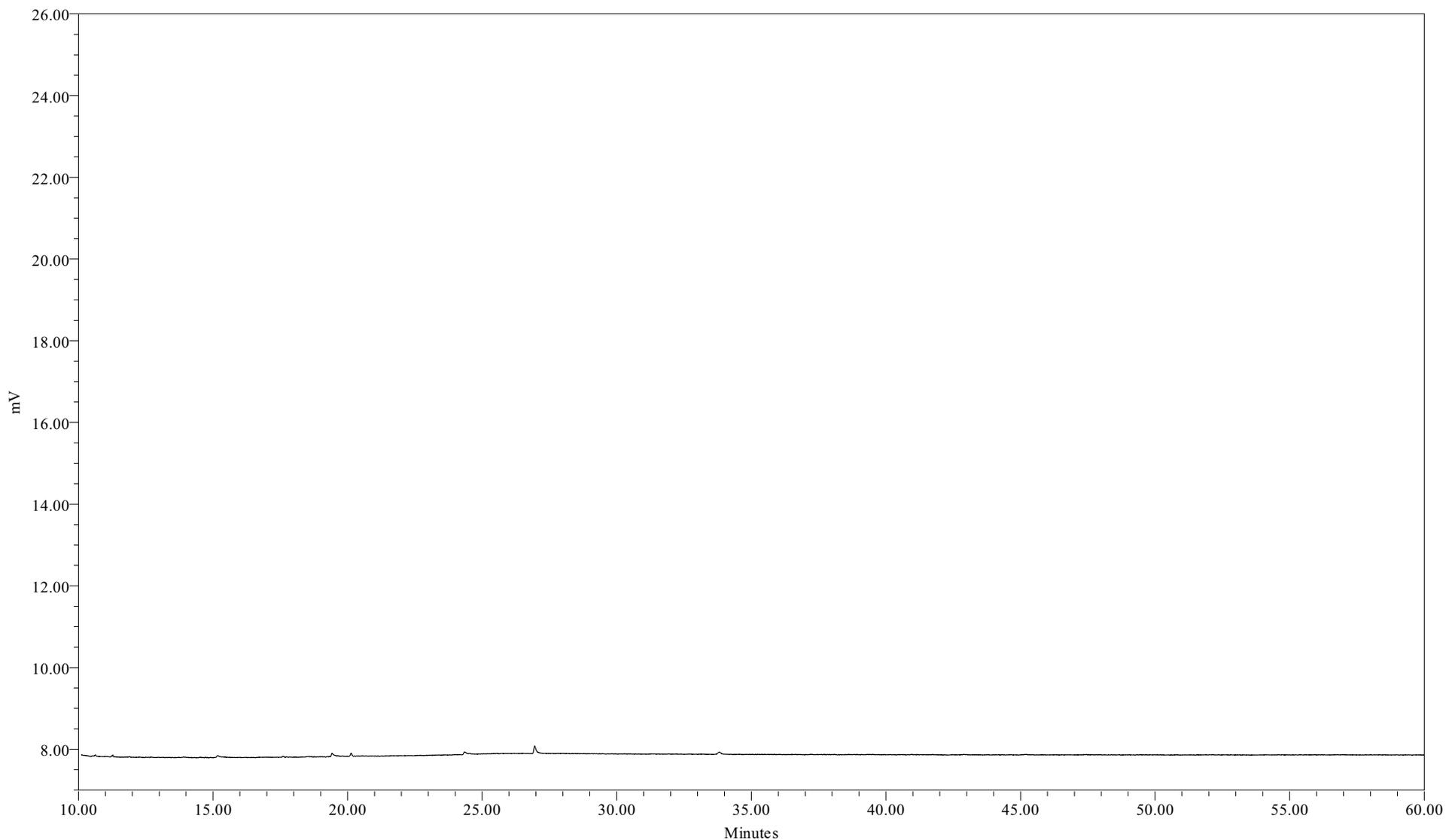
Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_082309  
LIMS File ID: GC16-827-1



Northeast Analytical, Inc., 2190 Technology Drive, Schenectady, NY 12308

Phone: (518) 346-4592 Fax: (518) 381-6055

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Sample Name: 091022B01  
Sample ID: HEXANE BLANK  
Date Acquired: 10/22/2009 11:57:58 EDT

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB\_LL1X\_090509  
LIMS File ID: GC24-204-1

# MDL Studies

## Pooled Modified Green Bay Method MDL 1 Liter

Compiled May 2009

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
Water Column	PCBs (1 liter)	Total PCB (sum of congeners)	1336-36-3	Modified Green Bay Mass Balance Method (NEA 207_03)	ng/L	9.10	32.2
		DB-1 Peak:					
		02	2051-60-7	NEA 207_03	ng/L	0.529	2.19
		03	2051-61-8	NEA 207_03	ng/L	6.63	1000
		04	2051-62-9	NEA 207_03	ng/L	0.355	1.28
		05	13029-08-8 33146-45-1	NEA 207_03	ng/L	0.134	0.621
		06	33284-50-3 34883-39-1	NEA 207_03	ng/L	0.0721	0.219
		07	25569-80-6	NEA 207_03	ng/L	0.158	0.347
		08	16605-91-7 34883-43-7	NEA 207_03	ng/L	0.542	2.56
		09	34883-41-5	NEA 207_03	ng/L	0.294	25.0
		10	38444-73-4	NEA 207_03	ng/L	0.0604	0.102
		11	35693-92-6	NEA 207_03	ng/L	0.198	25.0
		12	2050-67-1	NEA 207_03	ng/L	0.306	25.0
		13	2974-92-7 2974-90-5	NEA 207_03	ng/L	0.0559	0.0975
		14	2050-68-2 37680-65-2	NEA 207_03	ng/L	0.128	0.676
		15	37680-66-3	NEA 207_03	ng/L	0.143	0.676
		16	55702-45-9 38444-76-7	NEA 207_03	ng/L	0.0374	0.047
		17	38444-78-9 38444-77-8	NEA 207_03	ng/L	0.166	0.713
		19	55720-44-0 37680-68-5 15968-05-5	NEA 207_03	ng/L	0.128	25.0
		20	15862-07-4	NEA 207_03	ng/L	0.0108	0.0194
		21	38444-81-4	NEA 207_03	ng/L	0.0606	0.132
		22	55712-37-3	NEA 207_03	ng/L	0.0426	0.0585
		23	16606-02-3	NEA 207_03	ng/L	0.487	0.753
		24	7012-37-5 62796-65-0	NEA 207_03	ng/L	0.211	0.964
		25	38444-84-7 55702-46-0 38444-86-9 41464-41-9	NEA 207_03	ng/L	0.105	0.726
		26	38444-85-8 68194-04-7	NEA 207_03	ng/L	0.120	0.530
		27	70362-45-7	NEA 207_03	ng/L	0.0367	0.163
		28	38444-87-0	NEA 207_03	ng/L	0.375	25.0
		29	41464-47-5	NEA 207_03	ng/L	0.127	0.127
		30	38444-88-1	NEA 207_03	ng/L	0.120	25.0
		31	35693-99-3 60233-24-1 74338-23-1	NEA 207_03	ng/L	0.204	0.872
		32	70362-46-8 41464-40-8	NEA 207_03	ng/L	0.0978	0.420
		33	53555-66-1 2437-79-8	NEA 207_03	ng/L	0.0656	0.183
		34	70362-47-9 32598-12-2	NEA 207_03	ng/L	0.0579	0.183
		35	54230-22-7 33284-54-7	NEA 207_03	ng/L	0.205	25.0
		36	37680-69-6	NEA 207_03	ng/L	0.144	25.0
		37	56558-16-8 41464-39-5	NEA 207_03	ng/L	0.160	0.786
		38	38444-90-5 36559-22-5 74472-33-6	NEA 207_03	ng/L	0.115	0.475
		39	52663-59-9 52663-58-8 41464-46-4 41464-42-0	NEA 207_03	ng/L	0.121	0.749
		41	73575-52-7 73575-54-9	NEA 207_03	ng/L	0.115	25.0
		42	38444-93-8	NEA 207_03	ng/L	0.0968	0.172
		43	70424-67-8 60145-21-3	NEA 207_03	ng/L	0.152	25.0
		44	41464-49-7 73575-53-8 39485-83-1	NEA 207_03	ng/L	0.0225	0.0402

Matrix	Category	Analyte Name	CAS number(s)	Analytical Method	Units	Laboratory MDL	Laboratory RL
		45	74472-34-7	NEA 207_03	ng/L	0.0299	0.0384
		46	32690-93-0 73575-55-0 33284-53-6	NEA 207_03	ng/L	0.0821	0.347
		47	32598-11-1	NEA 207_03	ng/L	0.164	0.621
		48	32598-10-0 70362-48-0 60233-25-2 33284-52-5 73575-56-1 38379-99-6 68194-06-9 55215-17-3	NEA 207_03	ng/L	0.243	1.32
		49	74338-24-2 68194-05-8 56558-18-0	NEA 207_03	ng/L	0.0376	0.093
		50	41464-43-1 33025-41-1	NEA 207_03	ng/L	0.359	0.640
		51	52663-60-2 52663-61-3 33979-03-2	NEA 207_03	ng/L	0.0888	0.329
		52	73575-57-2	NEA 207_03	ng/L	0.0384	0.0384
		53	68194-07-0 37680-73-2	NEA 207_03	ng/L	0.0691	0.329
		54	41464-48-6 38380-01-7 68194-10-5	NEA 207_03	ng/L	0.101	0.135
		55	56558-17-9 68194-08-1	NEA 207_03	ng/L	0.00644	0.0102
		56	70362-49-1 60145-20-2 74472-36-9 70362-41-3	NEA 207_03	ng/L	0.0647	0.0647
		57	41464-51-1 68194-09-2 55312-69-1	NEA 207_03	ng/L	0.0435	0.102
		58	70362-50-4 38380-02-8 68194-11-06 74472-39-2 39635-32-0 74472-38-1 74472-40-5	NEA 207_03	ng/L	0.0841	0.212
		59	18259-05-7 65510-45-4	NEA 207_03	ng/L	0.0484	0.128
		60	68194-12-7 38411-22-2	NEA 207_03	ng/L	0.0772	0.137
		61	32598-13-3 38380-03-9 74472-41-6	NEA 207_03	ng/L	0.0668	0.389
		62	60145-22-4	NEA 207_03	ng/L	0.113	25.0
		63	52663-62-4	NEA 207_03	ng/L	0.0201	0.0804
		64	52663-63-5	NEA 207_03	ng/L	0.0518	0.311
		65	70424-70-3 52744-13-5	NEA 207_03	ng/L	0.0149	0.0530
		66	68194-14-9	NEA 207_03	ng/L	0.0541	0.110
		67	70424-68-9 74472-35-8 68194-13-8	NEA 207_03	ng/L	0.0348	0.0475
		68	65510-44-3	NEA 207_03	ng/L	0.125	25.0
		69	70424-69-0 31508-00-6 56030-56-9 38380-04-0	NEA 207_03	ng/L	0.0938	0.731
		70	59291-64-4	NEA 207_03	ng/L	0.0829	25.0
		71	74472-37-0 52704-70-8 68194-15-0	NEA 207_03	ng/L	0.0348	0.0369
		72	76842-07-4 61798-70-7 35694-04-3 41411-61-4	NEA 207_03	ng/L	0.00638	0.0106
		73	51908-16-8 74472-46-1 74487-85-7	NEA 207_03	ng/L	0.0320	0.0713
		74	32598-14-4 38380-05-1 74472-43-8	NEA 207_03	ng/L	0.0721	0.248

Matrix	Category	Analyte Name	CAS	Analytical Method	Units	Laboratory MDL	Laboratory RL
			number(s)				
		75	35065-27-1	NEA 207_03	ng/L	0.109	0.538
		76	39635-33-1 59291-65-5 74472-48-3	NEA 207_03	ng/L	0.107	25.0
		77	52712-04-6	NEA 207_03	ng/L	0.064	0.311
		78	52663-64-6	NEA 207_03	ng/L	0.0470	0.267
		79	35694-06-5	NEA 207_03	ng/L	0.0501	0.0501
		80	52663-66-8 52663-65-7	NEA 207_03	ng/L	0.0151	0.0475
		82	35065-28-2 74472-44-9 74472-45-0	NEA 207_03	ng/L	0.108	0.493
		83	74472-42-7 41411-62-5 74472-49-4	NEA 207_03	ng/L	0.0450	0.0457
		84	57465-28-8 55215-18-4	NEA 207_03	ng/L	0.00310	0.00473
		85	41411-63-6 52663-67-9	NEA 207_03	ng/L	0.0677	0.201
		87	40186-70-7 39635-35-3	NEA 207_03	ng/L	0.0156	0.0731
		88	60145-23-5 52663-68-0	NEA 207_03	ng/L	0.102	0.658
		89	38380-07-3 39635-34-2	NEA 207_03	ng/L	0.0199	0.0366
		90	52663-69-1	NEA 207_03	ng/L	0.0679	0.311
		91	52663-72-6	NEA 207_03	ng/L	0.0348	0.0348
		92	52712-05-7	NEA 207_03	ng/L	0.0225	0.0859
		93	38411-25-5 74472-47-2	NEA 207_03	ng/L	0.102	0.585
		94	52663-70-4	NEA 207_03	ng/L	0.0936	0.311
		95	38380-08-4 52663-71-5	NEA 207_03	ng/L	0.0871	0.144
		96	69782-90-7 2136-99-4	NEA 207_03	ng/L	0.00942	0.0121
		98	68194-16-1	NEA 207_03	ng/L	0.0133	0.0139
		99	40186-71-8	NEA 207_03	ng/L	0.0863	0.0863
		100	52663-74-8 74472-52-9	NEA 207_03	ng/L	0.127	0.127
		101	74472-51-8 33091-17-7	NEA 207_03	ng/L	0.217	0.217
		102	35065-29-3	NEA 207_03	ng/L	0.150	1.11
		103	69782-91-8	NEA 207_03	ng/L	0.0640	0.0768
		104	74472-50-7	NEA 207_03	ng/L	0.0374	0.0438
		105	52663-73-7 32774-16-6	NEA 207_03	ng/L	0.0460	0.0786
		106	35065-30-6	NEA 207_03	ng/L	0.0538	0.234
		107	41411-64-7	NEA 207_03	ng/L	0.0213	0.0768
		108	68194-17-2	NEA 207_03	ng/L	0.0324	0.0438
		109	52663-75-9	NEA 207_03	ng/L	0.116	0.768
		110	42740-50-1 52663-76-0	NEA 207_03	ng/L	0.184	0.786
		111	39635-31-9	NEA 207_03	ng/L	0.0231	0.0231
		112	52663-78-2	NEA 207_03	ng/L	0.0368	0.101
		113	52663-77-1	NEA 207_03	ng/L	0.0438	0.0902
		114 (surrogate)	52663-79-3	NEA 207_03	ng/L	0.0154	0.0340
		115	35694-08-7	NEA 207_03	ng/L	0.0969	0.329
		116	74472-53-0	NEA 207_03	ng/L	0.0838	0.084
		117	40186-72-9	NEA 207_03	ng/L	0.0384	0.124
		118	2051-24-3	NEA 207_03	ng/L	0.0126	0.0126

Note:

\*\* - Peak 114 corresponds to IUPAC 207, which is the surrogate.